



Undergraduate Catalog

Volume 54, 2026-2027

(Effective as of Fall Semester 2026)

This Undergraduate Catalog is a compendium of opportunities available at Madonna University. It includes information on academic programs, requirements for admission and graduation, rules, regulations, and expectations. Failure to read this Undergraduate Catalog does not excuse students from the requirements and regulations described herein. While every effort is made to provide accurate and current information, the University reserves the right to change rules, policies, fees, curricula, courses, and other programs described, to reflect faculty or administrative action.

This Undergraduate Catalog is accurate as of the publication date.

MISSION STATEMENT: The mission of Madonna University, a Catholic institution of higher learning, is to instill in its students Christian humanistic values, intellectual inquiry, a respect for diversity, and a commitment to serving others through a liberal arts education, integrated with career preparation and based on the truths and principles recognized within a Felician Franciscan tradition.

Madonna University guarantees the right to equal educational opportunity without discrimination because of race, religion, sex, age, national origin, disabilities, or any other characteristic protected by federal or state law.

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University

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Madonna University Academic Calendar

SEMESTER I – FALL

	2026-27	2027-28	2028-29
Faculty Conference	Aug 24	Aug 23	Aug 21
Classes Begin	Aug 31	Aug 30	Aug 28
Course Add and Drop Periods – See Academic Planning Guide (APG)	See APG	See APG	See APG
Student Convocation	Aug 27	Aug 26	Aug 24
*Labor Day – no classes	Sept 7	Sept 6	Sept 4
Deadline – Removal of “I” grade from Summer Semester	Sept 25	Sept 17	Sept 15
Filing Deadline – Application for Graduation: Winter Semester, May	Sept 30	Sept 30	Sept 29
Web Registration Begins – Summer Semester	Oct 26	Oct 25	Oct 23
In-Person/Open Registration Begins- Summer Semester	Nov 2	Nov 1	Oct 30
Final Date, Election of S Grade	Nov 6	Nov 5	Nov 3
Final Filing Date/Doctoral Capstone Experience for December Graduation	Nov 19	Nov 18	Nov 16
Final Date, Withdrawal from Courses (No later than 75% of complete coursework)	Nov 20	Nov 19	Nov 17
**Thanksgiving Recess (begins at 4:00pm on the Wednesday before)	Nov 26-29	Nov 25-28	Nov 23-26
Final Examinations (Last class session)	Dec 14-19	Dec 13-18	Dec 11-16
End of Fall Semester	Dec 19	Dec 18	Dec 16
Grades Due by 12:00 noon EST	Dec 22	Dec 21	Dec 19

SEMESTER II – WINTER

	2026-27	2027-28	2028-29
Faculty Conference	Jan 8	Jan 7	Jan 5
Classes Begin	Jan 11	Jan 10	Jan 8
Course Add and Drop Periods – See Academic Planning Guide (APG)	See APG	See APG	See APG
*Martin Luther King Day – no classes	Jan 18	Jan 17	Jan 15
Deadline – Removal of “I” grade from Fall Semester	Jan 29	Jan 28	Jan 26
Filing Deadline – Application for Graduation: Summer Term, July	Jan 30	Jan 29	Jan 31
Spring Vacation	March 8-13	March 6-11	March 5-10
Final Date, Election of S Grade	March 19	March 17	March 16
Web Registration Begins – Fall and Winter Semesters	April 5	April 3	April 2
Final Filing Date/Doctoral Capstone Experience for May Graduation	April 8	April 6	April 5
Final Date, Withdrawal from Courses (No later than 75% of complete coursework)	April 9	April 7	April 6
In-Person /Open Registration Begins – Fall and Winter Semesters	April 12	April 10	April 10
*Easter Recess (begins at 4:00pm on the Thursday before)	March 26-28	April 14-16	Mar 30-Apr 1
Final Examinations (Last class session)	May 3-8	May 1-6	Apr 30-May 5
End of Winter Semester	May 8	May 6	May 5
Grades Due by 12:00 noon EST	May 11	May 9	May 8
Graduation Liturgy	May 11	TBD	TBD
Commencement	May 13-14	TBD	TBD

SEMESTER III – SUMMER

	2026-27	2027-28	2028-29
Classes Begin	May 17	May 15	May 14
Course Add and Drop Periods – See Academic Planning Guide (APG)	See APG	See APG	See APG
Memorial Day – No Classes	May 31	May 29	May 28
Filing Deadline – Application for Graduation: Fall Semester, December	May 28	May 31	May 31
Deadline – Removal of “I” grade from Winter Semester	June 18	June 16	June 15
Independence Day – No Classes	July 5	July 4	July 4
Final Date, Election of S Grade	July 9	July 7	July 6
Final Filing Date/Doctoral Capstone Experience for August graduation	July 8	July 6	July 5
Final Date, Withdrawal from Courses (No later than 75% of complete course work)	July 16	July 14	July 13
Final Examinations (Last class session)	Aug 2-7	July 31-Aug 5	July 30-Aug 4
End of Summer Semester	Aug 7	Aug 5	Aug 4
Grades Due by 12:00 noon EST	Aug 10	Aug 8	Aug 7

Please refer to the [Academic Calendar](#) on our website for the most current information.

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Students are held individually responsible for the information contained in the University Catalog. Failure to read and comply with University stipulations will not exempt students from whatever consequences they may incur.

The University reserves the right to withdraw or modify information in this catalog.



Office of the President

Welcome to Madonna University, founded by the Felician Sisters of North America. As Crusaders, our mascot, are scholars for peace, justice, service for the common good, and the acquisition of knowledge that will enrich our lives. Whatever academic program you pursue, please know that Madonna faculty and staff members are committed to your success.

Madonna University is grounded in these values of St. Francis of Assisi: respect for the dignity of each person, reverence for creation, the pursuit of peace and justice, and education for truth and service. I think you'll find that when you combine these Franciscan values, your Madonna degree, and the effort you put into your Madonna experience, you will achieve your full potential and become the "You" you were always meant to be.

We are extremely proud of the more than 35,000 Madonna alumni who are doing good work and making a positive impact in Michigan and around the world. It's great to have you here at Madonna, where you can thrive in our student-focused learning environment and the Catholic, Christian atmosphere. As you develop friendships and relationships that will last a lifetime, please give your studies your best effort, stay healthy, and show respect and care for your classmates, professors, and other members of our Madonna family.

We are dedicated to delivering the high-quality education that first attracted you to Madonna. Take full advantage of the services and resources available, from the library and labs to our talented and caring faculty and academic support staff. Make the most of your time at Madonna by getting involved in campus clubs, the performing arts, athletics, guest lectures, or other campus activities. Participate in service-learning projects and internships. These experiences take learning beyond the classroom, enrich your education, broaden your mind, and expand your network. This Catalog will serve as a valuable resource for planning and tracking your Madonna educational journey — one that we will work with you to make absolutely amazing!

Peace and All Good,

Chris Dougherty, Ph.D.
President

Section I:

University Overview

Madonna University

Our Vision & Mission

By design, Madonna University's Catholic identity and its Franciscan and Felician heritage underpin the planning process, with a 10-year, aspirational vision:

Vision Statement

Madonna University seeks to be a premier, regional Catholic University that places students at the center of the educational process, in preparation for a lifetime of service.

Madonna University is an independent Catholic, Franciscan institution of higher learning committed to teaching, scholarship, and service. The University's educational philosophy is founded on the Franciscan spirit, which encounters God in the whole of creation, manifested by persons, events, and natural things. This view defines individuals as moral-ethical beings and advocates a life based on truth, goodness, and service to others, rooted in the teachings and traditions of the Roman Catholic Church.

Drawing inspiration from the selfless love of Jesus Christ and his mother, the Madonna, the University seeks to communicate a coherent understanding of reality, discernable through the spirit, mind, and imagination. The University adheres to the guidelines set forth in *The Application of Ex corde Ecclesiae* in the United States. Madonna University is dedicated to meeting the educational needs of traditional and post-traditional students as they pursue undergraduate and graduate degrees. The University's strong foundation on liberal arts education combined with career preparation is acknowledged for its relatedness to the quality of life and economic growth and development of Michigan and the broader region. In realizing all aspects of its vision, the University emphasizes a service approach to students through an integrated student support structure and flexible delivery systems both on and off campus, nationally and internationally, and through in-person and online education.

Mission Statement

The mission of Madonna University, a Catholic institution of higher learning, is to instill in its students Christian humanistic values, intellectual inquiry, a respect for diversity, and a commitment to serving others through a liberal arts education, integrated with career preparation and based on the truths and principles recognized within a Felician Franciscan tradition.

Our Core Values

Franciscan

Respect for the Dignity of Each Person
Peace and Justice
Reverence for Creation
Education for Truth and Service

Felician

Respect for Human Dignity
Justice and Peace
Solidarity with people in Need
Compassion
Transformation

Madonna University

Respect
Integrity
Responsible Stewardship
Intellectual, Spiritual, Personal Development
Educational Access
Excellence

Our Madonna Commitment

Madonna University provides a caring, personalized, values-based learning community for students who seek knowledge and preparation to succeed in a life of service to others.

Our Institutional Characteristics

- Caring Community
- Personalized Education
- Values-Based Experience
- Service-Oriented Career Preparation

Foundational Values of Our Mission

The Catholic Tradition

Madonna University, founded and sponsored by the Felician Sisters of Livonia, Michigan, maintains fidelity to the teaching and authority of the Catholic Church through its academic curriculum and student life activities; promotes an appreciation for and openness to other religious traditions; and encourages an atmosphere of respect and sensitivity to all persons. The University's faith environment fosters the search for unity and the spirit of ecumenism, inter-religious dialogue, and intellectual freedom. Through undergraduate, graduate, and continuing professional study, Madonna University provides individuals with opportunities for intellectual, spiritual, and personal growth. The University endeavors to develop the capacity of its students to evaluate values and norms of modern society and culture from a Christian perspective in order to give full meaning to human life. Ultimately, the Christian message calls upon all people to witness God's unconditional love to the world through the pursuit of truth, the promotion of social justice, and the commitment to serve others who are less fortunate.

The Franciscan Ideal

The Madonna University Community supports and maintains an educational environment which is in harmony with the teachings of Jesus Christ as exemplified in the life of St. Francis of Assisi. The Franciscan ideal encourages a "conversion of heart" away from selfish worldliness toward a Christ-centered vision of creation. The mission of the University receives its spirit from such Franciscan values as a respect for the dignity of each person; peace and justice: a love of God translated into assisting all people, especially the poor, minority groups, and individuals challenged with disabilities; a reverence for creation; and education for truth and service: a conviction that the liberal arts and sciences develop the intellect so as to prepare the individual to render more effective service to humanity.

Christian Humanistic Values

Christian humanism, taking inspiration from the Judeo-Christian tradition of respect for life, supports the belief that a Higher Being judges and redeems life, thereby encouraging individuals to define their relationship with their brothers and sisters across the globe and throughout history itself. This philosophy recognizes the innate dignity of each person and affirms the human capacity and freedom of will to develop one's physical, social, psychological, and spiritual well-being to the fullest. In this context, education is a means of empowerment, preparing individuals to reach their full potential.

Core Values

In order to meet the intellectual, spiritual, and personal development needs of learners within the framework of Catholic and Franciscan higher education, the Madonna University community commits itself to living the following core values:

Respect -- Madonna University recognizes that each individual's contribution is vital to achieving society's goals and, therefore, values each person's talents and abilities. A diversity of races, creeds, cultures, and physical ability enriches the University community, and, by creating a climate of mutual respect and justice, the University affirms each individual's right to dignity and civility.

Integrity -- Madonna University practices honesty in all matters, including how it presents itself to its various stakeholders and how it conducts all transactions. By manifesting integrity, the University models this ideal for its students, employees, and the community at large, and thus, fulfills a significant aspect of its teaching mission.

Responsible Stewardship -- The Madonna University Community recognizes that all of its resources are gifts from God. With these blessings comes the responsibility to shepherd resources wisely and responsibly and to optimize their role in achieving the University's mission, vision, and purposes. Animated by the Franciscan spirit of service, the University deploys its resources for the benefit of its members, to foster learning and promote the fulfillment of human potential.

Intellectual, Spiritual, and Personal Development -- Madonna University creates a learner-centered environment committed to the intellectual, spiritual, and personal development of its members: students, faculty, and staff. It is focused on developing the whole person both for professional employment and a dedication to truth, goodness, and service. Each member of the University community is expected to manifest a commitment to lifelong learning and continued professional development.

Educational Access -- Since its founding, Madonna University has provided educational access for diverse groups that would not have had ready access to higher education otherwise, regardless of race, creed, physical ability, age, or socioeconomic status. This commitment led to the admission of male students in 1972 and to programs for off-campus and distance education students in the 1980's and 1990's. The University will continue to be a positive force in society by responding to the educational needs of underserved groups. In addition, Madonna University strives to deliver exceptional value at a cost below national norms for private institutions, thus remaining affordable to all students.

Excellence -- Madonna University is aware of the responsibility that results from the trust placed by the community in its ability to educate its students effectively. It, therefore, commits itself to quality as it endeavors to fulfill its mission and educational

purposes. The University pursues a philosophy of continuous improvement based upon rigorous assessment, focused reflection, and informed decision making.

Diversity and Inclusion Statement

Madonna University lives out its Catholic and Franciscan mission and values by creating and maintaining an environment where all persons are treated with understanding and respect. The University regards diversity and inclusion as guiding principles. Diversity calls upon individuals to know how to relate to qualities, conditions, and identities that are different from their own and from the groups to which they belong. Members of the University community are expected to respect others regardless of race, ethnicity, gender, sexual identity, socioeconomic status, age, physical abilities, cognitive abilities, family status, religious beliefs, political beliefs, and/or religious tradition. The University community guarantees the freedom of individuals to explore their evolving self-identity in a safe, positive, and nurturing environment. The University ensures that all persons can participate in and have access to the everyday life of the institution. This deepens the understanding and appreciation of the individuality and circumstances of everyone. Inclusion is essential for the creation of a welcoming environment that promotes respect, hospitality, peace, and justice. Our commitment to diversity and inclusion emanates from the Franciscan values of respect for the dignity of each person, concern for the disadvantaged and oppressed, and reverence for life. In concert with *Ex corde Ecclesiae* and Catholic social teaching, we maintain that all faiths and all people are welcome here.

Liberal Arts Integrated with Career Preparation

Madonna University believes in the enduring values of the liberal arts, with its curriculum based on the arts, humanities, sciences, and social sciences as the foundation for the critical and creative thinking, decision-making, and higher literacy necessary for being a responsible and productive citizen in contemporary society. Programs of study are designed to be intellectually challenging; foster independent learning; cultivate new knowledge through study, research, dialogue, analysis, and synthesis; instill a sense of global awareness; and eliminate ignorance, fear, injustice, and prejudice.

A Student-Centered Learning Community

Madonna University measures its success by the high level of learning achieved by its students. It focuses on student outcomes and has identified multiple evaluation strategies to assess student academic achievement.

The Madonna University graduate is expected to achieve the following learning goals:

1. **College Writing:** Develop the ability to write clear, effective English prose.
2. **Religious Values:** Achieve an understanding of religious and moral dimensions of human experience.
3. **Cultural Traditions:** Develop an understanding of and responsiveness to the aesthetic, emotive, and intellectual expressions of human concerns through the humanities and arts.
4. **Scientific Inquiry:** Achieve an understanding of modern concepts of science, computer technology and mathematics, and the relationship between scientific and technological realities in contemporary life.
5. **Personal and Social Environment:** Develop an understanding of the ways in which individuals perceive, experience, and behave in their personal & social environment.
6. **Global Citizenship:** Develop a facility for international and national citizenship skills.
7. **Personal and Career Development:** Achieve individual education goals for personal enrichment and career development.

Madonna University

Madonna University History

For more than 80 years, Madonna University has been committed to quality liberal arts education integrated with career preparation in the interest of public service. Founded by the Felician Sisters of Livonia as Presentation Junior College in 1937, in 1947 it was renamed Madonna College and incorporated as a baccalaureate institution. It became coeducational in 1972, initiated its first graduate program in 1982, achieved University status in 1991, and launched its first doctoral program in 2008. In 2003, St. Mary's College of Orchard Lake merged with Madonna University, and its students and many of its faculty were welcomed into the Madonna University community.

Madonna University maintains its identity as an independent Catholic university within a Felician Franciscan tradition. A pioneer in opening its doors to both older and younger adults with diverse economic, religious, social, and cultural backgrounds, the University remains committed to its belief in the spiritual, educational, and service-oriented mission: Education for truth, goodness, and service.

Livonia Campus

The main campus of Madonna University is located in Livonia, Michigan, a suburb on the western perimeter of metropolitan Detroit. The campus faces Schoolcraft Road and the Jeffries (I-96) Freeway (Exit 173 at Levan or Newburgh Road), and has easy access to downtown Detroit, the Detroit Metropolitan Airport, Ann Arbor, and important state highways.

The Administration Building

The Administration Building accommodates a variety of purposes, from administrative offices to classrooms and support services. The University utilizes advanced technology as a tool for teaching and learning, increasing opportunities for students to engage in learning on an "anywhere, anytime" basis. In addition to face-to-face classroom instruction, a blend of technologies is used to reach students at off-campus sites, at work, or at home using Blackboard as the learning management tool for online courses, email communication, audio, video, and live, interactive two-way video. Madonna's facilities include an interactive video classroom with recording facilities and video casting and web conferencing capabilities. The building also contains the Collaborative Learning Center and has wireless access throughout.

The **Ford Motor Company Technology Wing**, the 1100 corridor, provides state-of-the-art learning resources with computer laboratories, computer classroom, faculty multimedia authoring lab, and a Macintosh/PC based multimedia lab that supports art and graphic design, video, and journalism. The Information Technology staff maintains computer services across the campus, including the IT network, which allows remote access from offices, student lounges, the residence hall, and off campus. Internet access provides immediate communication with faculty, support offices, other students, and the global community.

The University promotes the integration of learning technologies across the curriculum, from face-to-face classes

enhanced with technology to courses offered entirely online. The University has outfitted most of its classrooms with state-of-the-art multimedia and computing technologies in order to promote advanced technology literacy in its faculty and students. Training on Blackboard for students and faculty members on the various features of the system is provided to facilitate optimum user experience.

Other Administration Building highlights include:

The **Sign Language Instruction Laboratory** and office suite, Room 1405, provides 24 workstations equipped with specialized language-learning software adapted for the visual nature of American Sign Language, housed within a space that can be reconfigured as a high-tech classroom. In addition, faculty and staff offices are located in an adjacent space to facilitate student-faculty interaction.

The **Office of Diversity and Inclusion** is in Room 2404, and **Mosaic Leadership Academy** occupies Room 1408. The **Office of Diversity and Inclusion** fosters and helps create a sustainable university-wide culture that promotes diversity, equity, inclusion and engagement as essential values aligned with the Felician Franciscan mission and heritage. **Mosaic Leadership Academy** supports this mission through its four pillars of Service, Leadership, Career and Diversity & Inclusion. MLA

empowers students to excel academically and flourish as members of a social and inclusive workplace. As a result of this program, employers can expect access to well-prepared diverse and culturally sensitive prospective employees who are ready to serve the world.

The **Nursing Simulation Laboratories**, Room 1410, provide a range of instructional resources, including simulation rooms for medical/surgical, pediatric/childbirth, intensive care, and community health nursing; observation rooms; and practice laboratories. Nursing students encounter real-world simulations as preparation for their extensive clinical placements in acute, sub-acute, and community agencies throughout the metropolitan Detroit area.

Our physical **Library**, built in 1984, is on the upper level, Room 2300 and offers quiet study areas, rooms for collaborative work and a student lounge. Our digital Library is always open, with access to electronic content and 24/7/365 assistance from certified librarians through our chat service. The collection contains 250,000+ print and electronic books, 400+ print periodicals, multimedia resources, and more than 130 subscription databases that provide access to 82,000+ online academic journals and publications. Throughout the space are several heritage alcoves which contain a variety of artifacts related to the cultural backgrounds of Madonna University's multiethnic student body. In addition to these displays is the Kary Family Mid-Century Polish Folk-Art Collection, featuring traditional wood carvings and glass pieces.

Housed in the Library, the **Center for Personalized Instruction (CPI)** provides students with academic resources and support services. Included in these services are one-on-one or group tutoring, supplemental instruction, walk-in mathematics laboratory support, and success strategy workshops. Contained within the CPI is the federally-funded Student Support Services TRIO Program. The **Writing Center**, also found

in the library, provides free writing support both in-person and online to all students. Along with tutoring, the Writing Center offers writing resources through the MU OWL (Online Writing Lab) and hosts writing-themed special events throughout the year.

In the lower level of the library wing, are the **University Archives, Center for Humane Studies, and Kresge Hall**, a 275-seat auditorium used for lectures and special events.

The **Center for Research**, located in the office of the Graduate Programs, Room S-125, coordinates Institutional Board reviews and provides support for research, scholarly activities, and interdisciplinary collaboration to faculty, staff, and students.

The Franciscan Center for Science and Media

The Franciscan Center Science and Media Building is the first "green" building built in Livonia that is certified by Leadership in Energy and Environmental Design (LEED). It is located between the Administration Building and the University Center, overlooking the St. Francis gazebo, the pond, and Cardinal Square.

The two-story building is home to the Department of Natural Sciences and Mathematics (within the College of Arts and Sciences) and the Media Center and includes state-of-the-art instructional laboratories in the physical and biological sciences, seminar rooms, a 150-seat lecture hall, a high-definition digital TV studio and sound stage, radio studio, editing laboratory, and editing suites. A variety of learning spaces are provided throughout the building for students to collaborate on projects, study, or relax during class breaks. The Gathering Space, adjacent to the main lecture hall and the café, is a perfect spot for meeting up with friends.

The TV studio is home to *Celebrate Michigan*, a public service television program, produced and crewed by broadcast and cinema arts students and watched by a typical audience of more than 40,000 people.

The **Instructional Design and Development** department, also housed in the Franciscan Center, assists faculty and students throughout the University in the effective use of media for teaching and learning, assists with instructional design and online course development, and provides training on Blackboard for students and faculty members.

Welcome Center and Felician Sisters of North America Heritage Center and Archives

In 2019, ground broke on the new Welcome Center and Felician Sisters of North America Heritage Center and Archives. This \$12 million, 30,000-square-foot building will contain offices of University admissions and advancement staff members, an art gallery, a café, and the Felician Sisters Heritage Center and archives. The Great Room, designed to accommodate up to 400 people, will be available for a wide range of University and community events.

The Performing Arts, Athletics, and Academics Center (PAAAC)

Located at 14680 Newburgh Rd., the PAAAC is the new home to Madonna athletics and will also feature classes, performing arts, and more. The Madonna University Athletic department has grown to a 22-sport program recognized by the National Association of Intercollegiate Athletics (NAIA) and competes as a member of the Wolverine-Hoosier Athletic Conference (WHAC) and Mid-States Football Association (MSFA). The facility also houses athletic offices, three team locker rooms, a sports medicine facility, a weight room, a recruitment lounge, and the Madonna Athletics Hall of Fame. Located within the PAAAC is the Alliance Catholic Credit Union Arena, a newly-

renovated, 22,000-square-foot gym that features a new maple floor and upgraded seating for nearly 1,000.

Residence Halls

The University Center houses up to 245 men and women in single, double, and quad room types, each containing sinks. Each wing contains community-style bathrooms that are cleaned by our housekeeping staff. The building includes a staffed front desk/mail area, common areas and kitchenettes on each floor, and a laundry room. In addition to Wi-Fi and cable connections in each room, twenty rooms are also equipped with emergency lighting systems for hearing-impaired students. The roof-covered patio and the upper terrace afford a view of the tree-lined pond. In 2018, expansion of residential offerings for students began, with students being able to choose from the University Center as well as the Living Learning Community Center and the Apartment Living Center.

All of the buildings on the Livonia campus are accessible according to ADA standards. Madonna University also provides accommodations as needed, including in-class notetaking, sign language interpreting, alternative testing accommodations, adaptive computer equipment, braille printing capabilities, and videophones.

Outreach Sites

University Center at Gaylord

Madonna University participates in the University Center at Gaylord, 80 Livingston Blvd., in order to deliver higher education to northern Michigan students. The University has been a partner since 1996, and it offers courses in Social Work at the University Center at Gaylord.

Macomb University Center

Madonna University is a partner in the Macomb University Center, located on the Center Campus in Clinton Township, 44575 Garfield Road. The University offers four baccalaureate degree completion programs through the University Center in Criminal Justice and Paralegal Studies.

Classes are taken on site with Madonna professors in the University Center classrooms. The Madonna University office is Room 120 in the University Center Building (UC-1).

Accreditations and Approvals

Madonna University is committed to the highest quality standards for higher education. The University uses its own measures of quality as well as standards required by professional and accrediting organizations. Many organizations review the curriculum and facilities, instruction, administration, and the assessment of student outcomes as part of the approval and accreditation process. The University has designed a comprehensive assessment plan that measures and reports on student achievement as part of this process.

Approval by accrediting agencies and professional organizations exists at state, regional, national, and international levels. These organizations have varying cycles of review that can be anywhere from one to ten years.

The following is a list of accreditations and approvals:

Higher Learning Commission (HLC) (formerly North Central Association), 230 South LaSalle Street, Suite 7-500, Chicago, Illinois, 60604-1413; (800) 621-7440; www.hlcommission.org; 1959, 1968, 1978, 1982 (Graduate Education, 1988, 1998, 2004 (merger with St. Mary's College), 2008 (doctoral degree), 2018

Accreditation Council for Business Schools and Programs (ACBSP): The Madonna University School of Business, 2017

Accreditation Council for Education in Nutrition and Dietetics (ACEND, formerly The Commission on Accreditation for Dietetics Education [CADE]); 2000, 2010, 2020 (undergraduate); 2023 (graduate); The Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2190, Chicago, Illinois, 60606-6995; (800) 877-1600

American Bar Association, 1984, 1990, 1994, 2000, 2007, 2013, 2021

American Dietetic Association Approvals: Plan IV, 1977, 1982; Plan V, 1990, 1995

Commission on Collegiate Nursing Education, 2006 (graduate and undergraduate); 2010, 2015 (graduate, undergraduate, and DNP); 2015 (post graduate certificates); The baccalaureate degree program in nursing, master's degree program in nursing, Doctor of Nursing Practice program, and post-graduate APRN certificate program at Madonna University is accredited by the Commission on Collegiate Nursing Education (<http://www.ccneaccreditation.org>).

Council for the Accreditation of Educator Preparation (CAEP)(formerly National Council for the Accreditation of Teacher Education, [NCATE]), 1972, 1981, 1992, 1996, 2002, 2009, 2016, 2024

Council on Social Work Education, 1982, 1988, 1995, 2003, 2011, 2020 (undergraduate), 2018, 2023 (graduate)

Forensic Science Education Programs Accreditation Commission (FEPAC) (undergraduate), 2014, 2019

State of Michigan Board of Education:

Approval of four-year degrees, 1947

Teacher certifications, 1954

Master of Science in Administration, 1982

Master of Science in Nursing, 1987

Michigan Board of Nursing, 1967

National Council for Accreditation of Teacher Education, 1972, 1981, 1992, 1996, 2002, 2009

National League for Nursing Accrediting Commission (NLNAC), 1970, 1978, 1984, 1992, 1993, 1999 (undergraduate and graduate)

NOTE: Accreditation materials are available for review online.

Selected Memberships

Academy of Criminal Justice Sciences

Academy of Nutrition and Dietetics

All Saints Neighborhood Center, Southwest Detroit

American Academy of Forensic Sciences

American Assembly of Collegiate Schools of Business

American Association for Family and Consumer Sciences

American Association for Higher Education

American Association for Paralegal Education

American Association for Physics Teachers

American Association for the Advancement of Science

American Association of Colleges for Teacher Education

American Association of Colleges of Nursing

American Association of Collegiate Registrars and Admissions Officers

American Chemical Society

American Collegiate Retailing Association

American Conference of Academic Deans

American Council on Education

American Educational Research Association

American Folklore Society

American Library Association

American Meteorological Society

American Organization of Nurse Executives

American Personnel and Guidance Association

American Psychological Association

American Society on Aging

American Sociological Association

Archdiocese of Detroit Catholic Campus Ministry

Association for Computing Machinery

Association for Counseling and Development

Association for Gerontology in Higher Education

Association for Orientation, Transition, and Retention in Higher Education

Association for Quality and Participation

Association for Student Affairs at Catholic Colleges and Universities

Association for Supervision and Curriculum Development

Association for Systems Management

Association for the Advancement of Sustainability in Higher Education

Association of American Colleges and Universities

Association of Catholic Colleges and Universities

Association of College and Research Libraries

Association of Franciscan Colleges and Universities

Association of Governing Boards of Universities and Colleges

Association of Independent Colleges and Universities of Michigan

Association of Professional Humane Educators

Association on Higher Education and Disability

Broadcast Education Association

Campus EAI Consortium

Catholic Library Association

Chaldean American Chamber of Commerce

College Sports Information Directors Association

College Student Educators International (ACPA)

Comparative and International Education Society

Conference of Interpreter Trainers

Conference on College Composition and Communication (NCTE)
 Consortium of College and University Media Centers
 Cooperative Education Association
 Council for Adult and Experiential Learning
 Council for Exceptional Colleges
 Council of Independent Colleges
 Council of Undergraduate Psychology Programs
 Council on Social Work Education
 C.R.E.A.D., The Inter-American Distance Education Consortium
 Detroit Area Catholic Higher Education Consortium
 EDUCAUSE
 Fashion Group International
 Friends of the Rouge (River)
 Greater Detroit Chamber of Commerce
 Historical Society of Michigan
 Institute for International Education
 Institute of Food Technology
 International Assembly for Collegiate Business Education
 International Association of Campus Law Enforcement Administrators
 International Association of Chiefs of Police
 International Reading Association
 International TESOL (Teachers of English to Speakers of Other Languages)
 International Transcultural Nursing Society
 Learning Disabilities Association
 Legal Assistants Association of Michigan
 Livonia Chamber of Commerce
 Mathematical Association of America
 Michigan Academy of Science, Art, and Letters
 Michigan Association for Computer Users in Learning
 Michigan Association for the Deaf
 Michigan Association of Baccalaureate Social Work Educators
 Michigan Association of Broadcasters
 Michigan Association of Chiefs of Police
 Michigan Association of Colleges for Teacher Education
 Michigan Association of Colleges of Nursing
 Michigan Association of Collegiate Registrars and Admissions Officers
 Michigan Association of CPA's
 Michigan Association of Early Childhood Teacher Educators
 Michigan Association of International Educators
 Michigan Association of Teacher Educators
 Michigan Campus Compact
 Michigan Catholic Campus Ministry Association
 Michigan Catholic Guidance Council
 Michigan College and University Placement Association
 Michigan College Counseling Association
 Michigan College English Association
 Michigan College Personnel Association
 Michigan Colleges Foundation
 Michigan Committee for Jobs and Energy
 Michigan Consortium on Substance Abuse Education
 Michigan Council on Human Service Education
 Michigan Counseling Association
 Michigan Hispanic Chamber of Commerce
 Michigan Library Association
 Michigan Music Teachers' Association
 Michigan Psychological Association
 Michigan Registry of Interpreters for the Deaf
 Michigan Student Financial Aid Association
 Michigan Teachers of English to Speakers of Other Languages
 Michigan Writing Centers Association
 Mid-America Association of Education Opportunity Program Personnel
 Midwest Archives Conference
 Midwest Association of Graduate Schools
 Midwest Association of Student Financial Aid Administrators
 Midwest Collaborative for Library Services
 Midwest Consortium for Study Abroad
 Modern Language Association
 NACADA: The Global Community for Academic Advising
 National American Arabic Nurses Association
 NAFA: Association of International Educators
 National Association for the Education of Young Children
 National Association of College and University Attorneys
 National Association of College and University Business Officers
 National Association of College Directors of Athletics
 National Association of Hispanic Nurses
 National Association of Independent Colleges and Universities
 National Association of Intercollegiate Athletics
 National Association of Legal Assistants
 National Association of Nurse Practitioner Faculties
 National Association of Social Workers
 National Association of Student Financial Aid Administrators
 National Association of Student Personnel Administrators
 National Association of the Deaf
 National Catholic Office of the Deaf
 National Commission for Cooperative Education
 National Communication Association
 National Council of Educational Opportunity Associations
 National Council of International Studies Program
 National Council of Teachers of English
 National Council of Teachers of Mathematics
 National Fire Protection Association
 National League for Nursing
 Online Consortium of Independent Colleges and Universities
 Project Management Institute (Global Registered Education Provider)
 Registry of Interpreters for the Deaf
 Religious Communication Association
 Sign Language Instructors Guidance Network
 Society for College and University Planning
 Society for Technical Communication
 Society of American Archivists
 Southeastern Michigan League of Libraries

Academic Programs

Madonna University offers programs in more than 70 areas, leading to certificates of completion, certificates of achievement, associate degrees, baccalaureate degree majors and minors, and post-baccalaureate certificates, described in this Catalog. (The University also offers more than thirty master's degree programs, an education specialist, and two doctoral programs. See the Graduate Catalog.)

Madonna University follows a career ladder approach to course and degree work. Credits earned for certificates or the associate degree also apply toward the baccalaureate degree.

Certificate of Completion

A certification of completion is awarded in specified areas to admitted Madonna University students who successfully complete an approved program of study (9-29 s.h.) with a grade of C (2.0) or better in each course in the certificate. At least 50% of the certificate program must be completed in residence* at Madonna University.

Certificate of Achievement

A certificate of achievement is awarded in specified areas to admitted Madonna University students who earn 30 semester hours or more in a planned program of study, including WRT 1010, with a grade of C (2.0) or better in each course in the certificate. (Post-bachelor candidates select another course approved by the advisor, to substitute for WRT 1010.) At least 50% of the certificate program must be completed in residence* at Madonna University.

Associate Degree Requirements

The associate degree requires a minimum of 60 semester hours with a cumulative and final-semester grade point average of C (2.0) or better. The last 15 semester hours must be completed in residence* at Madonna University. The 60 semester hours for the associate degree include: (1) 24-32 semester hours in a major field of study (see individual plan of study) with a minimum grade of C (2.0) in each course of the major sequence; (2) a minimum of 21 semester hours in the MU Core; and (3) a minimum of 3 semester hours in the MU Signature courses. See *Core Curriculum for Associate Degree in this Catalog*.

Bachelor Degree Requirements

For the baccalaureate degree a minimum of 120 semester hours with a cumulative and final-semester grade point average of C (2.0) or better is required. The last 30 semester hours must be completed in residence* at Madonna University. Candidates for the baccalaureate degree must successfully complete the capstone experience required by their specific major(s). Students are encouraged to consider a second major or a minor or certificate whenever possible. The 120 semester hours for the baccalaureate degree include (1) 30-66 semester hours in a major field of study (see individual plans of study) with a minimum grade of C (2.0) in each course of the major sequence, and in all foundation and support courses required by the major; (2) a minimum of 31 semester hours in the MU Core; and (3) a minimum of 12 semester hours in the MU Signature Courses. See *Core Curriculum for Baccalaureate Degree in this Catalog*.

NOTE: A maximum of 6 s.h. of physical education activity courses may be counted toward the 120 s.h. baccalaureate degree.

*For more on residency, see *Residency section*.

Minors, Double Majors, and Dual Baccalaureate Degrees

As part of the bachelor degree, students may earn an academic minor, which consists of a planned program of study in an academic field ranging from 20 to 32 semester hours in length. Only courses with grades of C (2.0) or higher may apply toward a minor. For some majors, it is a requirement that a particular minor also be completed as part of degree requirements (see individual plans of study).

While a Madonna University bachelor degree may be earned in a single major, students may find their academic goals are better met by declaring and completing two majors, or adding one or more minors or certificates to the degree plan. Whether such a degree plan can be completed within the minimum required 120 semester hours or will require additional hours varies with the majors, minors, and certificates selected.

Note that while applying for a degree with two majors for which each would result in a different degree (for instance, one major the B.A. and the other the B.S.), the student must designate which degree is the preferred one, or is to take precedence, for the student's record and diploma. Once awarded, this cannot be changed at a later date.

Madonna University students may earn two baccalaureate degrees simultaneously provided they have completed all of the requirements for both majors and have completed a minimum of 150 semester hours.

Students graduating with a double major or with two baccalaureate degrees must observe the rule stated in the University Policies section of the Catalog that states a course may not be used toward fulfillment of more than one major or minor, although it may be simultaneously used toward a requirement in one of MU Core Curriculum courses, or in a certificate, or in the role of required foundation or support course.

Second Baccalaureate Degrees

Students with a baccalaureate degree may pursue a second degree by completing (1) the University Signature courses (Goal 8A and 8B requirement), (2) the requirement of the second major, including required foundation and support courses, and (3) at least 30 semester hours in residence* at Madonna University past the first bachelor degree, including electives if necessary.

No courses used in the major of the first degree may be used in developing the major of the second degree. However, any other courses from the prior degree, including courses used in a minor and religious studies course work, may be used. It is acceptable to use courses from the first degree major in the role of required foundation or support for the second degree major.

Undergraduate Programs of Study

THE FACULTY OF MADONNA UNIVERSITY are organized into teaching departments within four colleges and schools. Each program of study at the University has a “home” and advisors in one of these academic units. To seek advisors and in-depth information on any program in the chart that follows, please refer to the listed college home.

The College of Arts and Sciences

Room 2432 Administration Building — (734) 432-5543

The College of Education and Human Development

Room 2230 Administration Building — (734) 432-5570

The School of Business

Rooms 1210 & 1220 Administration Building

(734) 432-5354

The College of Nursing and Health

Room 1113 Administration Building — (734) 432-5464

Information on all programs and academic policies is also available from:

The Office of Student Advising & Success

Room 1220 Administration Building (734) 432-5417

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	Associate Degree Major	Bachelor Degree Major	Minor	Post-Bachelor Certificate*
Accountancy	Business				BS		
Accounting	Business				BS	Yes	
Addiction Studies.....	Ed & Human Develop	Yes					
Allied Health	Nursing & Health				BA		
Advanced Research (limited to psychology majors)	Ed & Human Develop	Yes					
Aging and Older Adults.....	Nursing & Health	Yes					
American Sign Language.....	Arts & Sciences					Yes	
American History and Government.....	Ed & Hum Develop	Yes					
Animal Cruelty Investigation	Ed & Hum Develop	Yes					
Animal Studies	Arts & Sciences				BA		
Art Education..... Ceramics Concentration Drawing Concentration Painting Concentration Printmaking Concentration	Arts & Sciences				BA		
Art History.....	Arts & Sciences					Yes	
Artificial Intelligence	Business	Yes					
ASL Education	Arts & Sciences				BA	Yes	
Biochemistry	Arts & Sciences				BS		
Biology.....	Arts & Sciences				BS	Yes	
Biology for Forensic Science Majors	Arts & Sciences					Yes	
Broadcast and Cinema Arts.....	Arts & Sciences			AA	BA	Yes	
Business Administration..... Accounting Concentration AI Literacy Concentration Business Analytics Concentration Global Supply Chain Management Concentration General Business Concentration Information Technology Concentration Marketing Concentration	Business			AS	BS	Yes	
Business Administration and Leadership.....	Business				BS		
Business Analytics	Business				BS		

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	Associate Degree Major	Bachelor Degree Major	Minor	Post-Bachelor Certificate*
Business Spanish.....	Arts & Sciences	Yes					
Business Law courses	Business						
Career Communication.....	Arts & Sciences	Yes					
Care Management for the Older Adult	Nursing & Health	Yes					
Chemistry.....	Arts & Sciences				BS	Yes	
Chemistry for Forensic Science Majors.....	Arts & Sciences					Yes	
Children and Families	Ed & Human Develop				BS	Yes	
Coaching.....	Business	Yes					
Communication Studies..... Oral Communication Concentration Organizational Communication Concentration Public Advocacy Concentration Public Communication Concentration	Arts & Sciences				BA	Yes	
Community Leadership.....	Ed & Human Develop	Yes					
Computer Science.....	Business			AS	BS	Yes	
Crime Laboratory Technician	Arts & Sciences		Yes				
Crime Scene Practice	Arts & Sciences	Yes					
Criminal Justice	Ed & Human Develop			AS	BS	Yes	
Cybersecurity.....	Business	Yes			BS		
Deaf Community Studies (minor is for Interpreting Studies or ASL Education majors only).....	Arts & Sciences				BA	Yes	
Dementia Care	Nursing & Health	Yes					
Digital Media	Business	Yes					
Dietetics	Arts & Sciences				BS		
Dietetics for Biology Majors.....	Arts & Sciences					Yes	
DNA Analysis	Arts & Sciences	Yes					
Early Childhood Education (for elementary teacher certification only)	Ed & Human Develop				BS		
Earth/Space Science courses	Arts & Sciences						
Economics courses.....	Business						
Education (Students in Teacher Education complete an academic major. Refer to EDUCATION.)	Ed & Human Develop						
Elementary Education (For teacher certification, this major must be selected in conjunction with the Early Childhood Education major, and the professional education sequences of courses. Note: Students may earn a B.A. degree in Elementary Education without teacher certification.)	Ed & Human Develop				BA		
English.....	Arts & Sciences				BA		
English/Journalism.....	Arts & Sciences					Yes	
English as a Second Language courses	Arts & Sciences						
English Language and Literature.....	Arts & Sciences					Yes	
English Language Learners K-12, Instruction of.	Ed & Human Develop	Yes					
Entrepreneurship.....	Business	Yes					
Entrepreneurship for Sport Management Professionals	Business	Yes					
Environmental Science.....	Arts & Sciences				BS		
Environmental Science for Animal Studies and Biology Majors.....	Arts & Sciences					Yes	
Environmental Science for Chemistry Majors	Arts & Sciences					Yes	
Esports and Gaming Administration.....	Business	Yes					
Essentials in End-of-Life Care.....	Nursing & Health	Yes					
Essentials of Instruction.....	Ed & Human Develop	Yes					
Exercise and Sport Science	Ed & Human Develop				BS	Yes	
Film Music Scoring	Arts & Sciences	Yes					
Finance.....	Business					Yes	
Financial Administration courses	Business						
Fine Arts..... Ceramics Concentration	Arts & Sciences				BA	Yes	

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	Associate Degree Major	Bachelor Degree Major	Minor	Post-Bachelor Certificate*
<i>Drawing Concentration</i> <i>Painting Concentration</i> <i>Printmaking Concentration</i>							
Forensic Accounting	Business	Yes					
Forensic Psychology	Ed & Human Develop	Yes					
Forensic Science	Arts & Sciences				BS		Achievement
General Studies	Arts & Sciences				BA		
Gerontology.....	Nursing & Health					Yes	
Global Supply Chain Management	Business					Yes	
Graphic Design	Arts & Sciences				BA	Yes	
Graphic Design for Fine Arts Majors.....	Arts & Sciences					Yes	
History	Ed & Human Develop				BA	Yes	
Homeland Security	Ed & Human Develop	Yes					
Hospice and Palliative Studies courses	Nursing & Health						
Human-Animal Bond	Arts & Sciences	Yes					
Humane Studies.....	Arts & Sciences					Yes	
Humanities courses.....	Arts & Sciences						
Industrial/Organizational Psychology.....	Ed & Human Develop	Yes					
Infant-Toddler Caregiver	Ed & Human Develop	Yes					
Information Technology Management	Business	Yes					
Instruction of English Language Learners K-12..	Ed & Human Develop	Yes					
Integrated Science	Arts & Sciences				BS		
International Business and Economics	Business				BS		
International Business courses	Business						
International Relations.....	Ed & Human Develop	Yes					
International Studies	Ed & Human Develop	Yes					
Journalism	Arts & Sciences					Yes	
Journalism and Public Relations	Arts & Sciences				BA		
Law.....	Arts & Science					Yes	
Literature.....	Arts & Sciences					Yes	
Litigation Management	Ed & Human Develop						Completion
Marketing	Business					Yes	
Mathematics	Arts & Sciences				BS	Yes	
Music	Arts & Sciences				BA	Yes	
<i>General Music Concentration</i> <i>Music Management Concentration</i> <i>Musical Theater Concentration</i> <i>Game, Video, and Film Music Scoring Concentration</i>							
Music Business Management.....	Arts & Sciences	Yes					
Music Education	Arts & Sciences				BMus		
Music Performance	Arts & Sciences				BMus		
<i>Church Music-Organ Concentration</i> <i>Instrumental Performance Concentration</i> <i>Piano Performance Concentration</i> <i>Vocal Performance Concentration</i>							
Musical Theatre.....	Arts & Sciences	Yes					
Natural Science	Arts & Sciences					Yes	
Nurse Paralegal.....	Nursing & Health						Achievement
Nursing.....	Nursing & Health				BSN		
Nursing Home Administration Pre-Licensure	Nursing & Health	Yes					
Nutrition	Arts & Sciences					Yes	
Nutrition and Wellness	Arts & Sciences				BS		
Nutritional Sciences.....	Arts & Sciences				BS		
Paralegal Studies.....	Ed & Human Develop			AS	BS		Achievement
Philosophy.....	Arts & Sciences					Yes	
Physical Education and Health K-12 (<i>for teacher certification candidates only</i>).....	Ed & Human Develop				BS		
Physics.....	Arts & Sciences					Yes	
Piano Pedagogy.....	Arts & Sciences		Yes				
Political Science.....	Ed & Human Develop				BA	Yes	

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	Associate Degree Major	Bachelor Degree Major	Minor	Post-Bachelor Certificate*
American Politics Concentration Comparative Politics and Area Studies Concentration International Politics Concentration Pre-Law Concentration							
Post-Production for Film and Video	Arts & Sciences	Yes					
Pre-Dentistry.....	Arts & Sciences		Yes				
Pre-Law Studies	Business	Yes					
Pre-Medicine.....	Arts & Sciences		Yes				
Pre-Optometry.....	Arts & Sciences		Yes				
Pre-Pharmacy.....	Arts & Sciences		Yes				
Pre-Physician Assistant.....	Arts & Sciences		Yes				
Private Investigation.....	Ed & Human Develop	Yes					
Private Security.....	Ed & Human Develop	Yes					
Professional CTE Certificate	Ed & Human Develop						
Psychology General Concentration Mental Health Concentration	Ed & Human Develop				BS	Yes	
Quality and Operations Leadership, Fundamentals of	Business	Yes					
Quality and Operations Management courses	Business						
Quantitative Systems courses	Business						
Religious Studies	Arts & Sciences				BA	Yes	
Sign Language Interpreting Studies.....	Arts & Sciences				BA		
Social Studies	Ed & Human Develop				BA		
Social Work.....	Ed & Human Develop	Yes			BSW		
Sociology.....	Ed & Human Develop				BA	Yes	
Spanish	Arts & Sciences				BA	Yes	
Spanish for Law Enforcement.....	Arts & Sciences	Yes					
Spanish for Teacher Certification.....	Arts & Sciences				BA	Yes	
Speech Communication	Arts & Sciences					Yes	
Sport Management.....	Business				BS	Yes	Achievement
Sport Media and Communication.....	Business					Yes	
Standard CTE Certificate.....	Ed & Human Develop						
STEM Education.....	Ed & Human Develop	Yes					
Sustainability Studies	Arts & Sciences	Yes					
Visual Communication and Design.....	Arts & Sciences	Yes					
World History	Ed & Human Develop	Yes					
Writing	Arts & Sciences				BA	Yes	

Any undergraduate certificate may be earned post-bachelor. Designated certificates may be earned only post-bachelor.

Academic Options

The University Year: Flexible Scheduling

Madonna University has a three-semester calendar, which enables some students to complete a bachelor's degree in three years.

Fall semester: 16 weeks, August through December

Winter semester: 16 weeks, January through May

Summer semester: 14 weeks, May through August
7 weeks, May through June
7 weeks June through August

Students may attend morning, afternoon, evening, or Saturday classes. Most classes are scheduled according to the following blocks, but some courses meet twice a week in shorter time increments. Check the course search tool available via MY Portal for full details.

Weekday Classes

8 a.m.-Noon
Noon – 3 p.m.
3-6 p.m.
6-10 p.m.

Saturday Classes

8 a.m.-Noon
1-4 p.m.
and alternative
scheduling

Weekend seminars, workshops, and institutes offer additional learning opportunities.

Advanced Standing

Madonna University awards advanced standing credits for a selection of Advanced Placement (AP), International Baccalaureate (IB), and American Council on Education (ACE) experiences. Advanced standing college credits are recorded on the student's transcripts.

Madonna University participates in the Advanced Placement program of the College Entrance Examination Board (CEEB). Under this program, a high school student who earns a score of 4 or 5 on an Advanced Placement examination listed on our website automatically receives college credit in the area of his or her proficiency.

Madonna University recognizes credits earned through the International Baccalaureate Organization (IBO). Under this program, a high school student who earns a score of 5 or above in an International Baccalaureate course listed on our website automatically receives college credit in the course content area.

Madonna University also accepts credits from the American Council on Education (ACE) College Credit Recommendation Service (CREDIT) for workplace learning experiences. A student who has received an ACE credit recommendation automatically receives elective credit equal to the ACE recommendation.

Consortia

Madonna University participates in multiple consortia partnerships.

Courses offered through the consortium are reviewed and approved by Madonna University and receive academic credit from Madonna University.

Students are billed for consortia courses through Madonna University as part of their overall academic enrollment. These courses are eligible for Federal, State and Institutional Financial Aid.

Catholic College Consortium

Madonna University is a member of the Detroit Area Catholic Higher Education Consortium, along with Sacred Heart Major Seminary and the University of Detroit Mercy.

Undergraduate students in good standing may, by working through their department advisor and the University Registrar, take one or more courses at other consortium institutions at no additional tuition cost. *For exact procedures, see the University Policies section.*

To be eligible for consortium registration in any given semester, a full-time student must be registered for a minimum of 8 semester hours at Madonna University. Part-time students must be registered for at least 3 semester hours at Madonna University.

Online Consortium of Independent Colleges and Universities (OCICU)

Madonna University is a member of the Online Consortium of Independent Colleges and Universities (OCICU), which allows students to register for online courses originated by other member independent universities.

Online Consortium with Rize Education

Some majors, minors, certificates, and concentrations include courses offered online through a consortium of regionally accredited colleges and universities. Instruction is provided by faculty employed by partner institutions within the consortium, with technology and administrative support by Rize Education.

Internships

Students participating in an internship must communicate with their faculty advisor to confirm the availability of academic credit for the experience. Upon confirmation, students will work with the Office of Career Development for assistance with the internship process. Students who have secured an internship are required to register for academic credit using the following course numbers of the appropriate department: 1910, 1920, 2910, 2920, 3910, 3920, 4910, and 4920.

Application deadlines are:

Fall semester: June 1

Winter semester: October 1

Summer semester: February 1

Distance Learning

Distance learning at Madonna University consists of a variety of instructional delivery alternatives to provide learning that is convenient, flexible, and accommodating to the student's

busy lifestyle and job requirements. Course offerings use a blend of technologies to reach students at off-campus sites, at work, or at home using online courses, email, Blackboard, telecourses, audio and video recordings, and DVD's, satellite video conferences, or interactive (two-way) television.

Courses may consist of one or more *face-to-face* sessions with the remainder of the semester being conducted through technologies such as *email* or *Blackboard*, a learning management system that allows participants to share information. A *telecourse* is an educational package which may include video programs, audio tapes, email, a study guide, textbook, and some on-campus sessions with an instructor. Digital video recordings for telecourses are provided to the student for home viewing. Madonna University has an *interactive television* classroom that allows two-way video and audio communication between the teacher and students on-campus and at off-campus sites.

Madonna University is committed to the principle of Regular Substantive Interaction, or RSI, in distance delivery. Under RSI, instructors provide a proactive presence and engage in regular and substantive interaction, including the provision of timely feedback, monitoring of student progress, and regularly facilitated interactions.

Students who register for distance learning options should be self-disciplined learners. Library services, including database and e-book access, are available to distance learning students.

Guest Students

Madonna University students in good academic standing may secure a guest pass to take a course at another institution only when the course is not taught that academic year at Madonna University and when waiting an additional year would cause severe inconvenience, hardship, or a delay of graduation of more than two semesters. Students should submit guest pass requests at least 30 days prior to the start of the semester they intend to use it.

Students must obtain a recommendation from their success coach or faculty advisor and approval from the Registrar to obtain a Guest Pass before registering for a course at another institution. Courses which have been taken at Madonna University cannot be repeated at another institution for transfer credit. The guest pass is valid only for the timeframe indicated on the guest pass. A grade of C (2.0) or better is required for the credit to transfer (credit only, no honor points). Transfer equivalencies are available on the Madonna University website. If admitted students take classes at another institution but fail to secure the necessary approval or authorization, the credits taken at the other institution may not apply to the Madonna University degree unless the student is readmitted to the University. Financial Aid may not cover courses taken at other institutions.

Guest Students Coming from Another School

Madonna University accepts the Michigan Uniform Undergraduate Guest application to assist guest students in earning credits to be applied toward a program at their home institution. Guest students should provide the guest application from their home school, a copy of their unofficial transcripts, and their request to be registered, including selected courses, to the Enrollment Center.

Financial aid is not available to guest students. Guest students to Madonna University must pay the tuition and fees required by the first day of the semester to avoid being dropped for non-payment.

Independent Study

Independent study provides the opportunity for in-depth study of a subject which is of particular interest to the student beyond what is offered within the University's curriculum of formal courses. Students may earn credit for independent study with the approval of a faculty member, the department chairperson, and the dean of the school or college in which the credit is awarded. The plan for the independent study and the required approvals, including whether the study will be done for a letter grade or on an S/F basis, are documented on the form, Petition and Authorization for Independent Study, which must be attached to the normal registration paperwork.

Non-Credit Registration and Continuing Education

Several Madonna departments arrange through professional organizations the offering of Continuing Education Units (CEUs) or other required continuing professional education designed to help graduates in their fields maintain their licensures: for example, Aging Studies, Sign Language Interpreting Studies, or Social Work.

Continuing Education Units are a nationally recognized form of measurement which may be used as evidence of increased performance capabilities in a profession but not as college credit. One CEU equals ten instructional hours.

Alternatively, some professors create their own credentialing credit units. Persons with professional licensures that require continuing education should check with their credentialing organization for details on requirements and may communicate with the academic department preparing students for their profession to inquire about options available at Madonna.

Continuing Education Units may not be converted at a later date to academic credit.

Prior Learning

The Prior Learning Program (PLP) facilitates the transfer into college credit of the learning acquired through life learning and experiences.

A student applying for prior learning credit needs to (a) correlate such learning with college courses and (b) have that evaluated in one of a variety of ways. Possible evaluation methods include University-approved standardized tests (CLEP, DSST, and NLN), University Department Challenge Tests, video (for musical/theatrical performances), interview, product, and portfolio. The method of evaluation is decided by the department faculty evaluator in consultation with the student.

A positive evaluation results in the student being able to register for the specified college credit at much reduced tuition/fee charges. For additional information on prior learning credits consult the University Policies section of this Catalog, or the Office of Undergraduate Student Advising and Success.

Service-Learning and Civic Engagement

Madonna University is committed to integrating pedagogies of engagement inside and outside the classroom. One form of curricular engagement is academic service-learning, which integrates community service with course content. Students enrolled in service-learning designated courses have the opportunity to apply their talents, knowledge, and skills to address local community needs and pressing social issues in partnership with local and global non-profit organizations. Academic service-learning also fulfills the University's mission by instilling in students Christian humanistic values, intellectual

inquiry, a respect for diversity, and a commitment to serving others.

Service-learning designated courses:

- Integrate service with course content, the service component supports the academic focus of the course;
- Engage students in relevant service that is of equal benefit to the learning and community partner(s);
- thread structured reflection that is continuous, challenging, connected, and contextualized;
- address aspects of civic responsibility and lifelong engagement;
- include a minimum of 15-service-learning hours (i.e., direct service, reflection, assignments related to the service-learning experience);
- are transcribed on the official academic transcript with an SL appearing to the right of the course title.

Service-learning courses are offered across the curriculum and include service projects that address issues including, but not limited to: access and success in higher education, animal welfare, capacity building in non-profit organizations, caregiving, community health, environment/sustainability, hunger, housing/homeless, literacy, nutrition/wellness, poverty, and senior/elder services.

For more information, please contact the Office of Service-Learning and Civic Engagement, Room 1403, (734)-432-5880 or servicelearning@madonna.edu.

Study/Work/Travel Abroad

Madonna University promotes the expansion of international education through curricular development, international exchange programs, and study abroad programs. Numerous study abroad opportunities are available for individual students, as well as Madonna University sponsored short-term study abroad trips.

Students interested in finding out more about study abroad should communicate with the Center for Study Abroad, Room 1501, (734)-432-5669.

Flexible Scheduling

Madonna University offers unique alternatives for students to finish selected certificate, associate, bachelor, and master's degrees by enrolling in a combination of weekday/weekend classes, telecourses, and online courses, as well as submitting a portfolio for credit for prior learning. In keeping with the mission of Madonna University, all scheduling options allow opportunities for spiritual growth in addition to academic study through interaction with peers, lectures, retreats, communal prayer, and other activities that promote spiritual and personal development.

Admissions

Madonna University grants admission at the beginning of any semester to students who are motivated to work for a degree and whose academic achievements demonstrate they are prepared to be successful in a university environment.

General Admission Requirements

The Office of Undergraduate Admissions receives all undergraduate applications and supporting information used to determine undergraduate admission.

The admissions process considers the following:

- grades,
- school official recommendation,
- exceptional talents,
- involvement beyond the classroom,
- leadership potential, and/or
- record of good citizenship.

It is highly recommended that students apply for admissions early. Students who complete the admissions application process before the following recommended deadlines will be guaranteed an expedited decision. (Others may or may not be eligible to begin studies at the intended semester.)

Domestic Undergraduate Students:

Madonna University practices rolling admissions. Applications are accepted year-round and decisions are made regularly

International Students*:

- June 1st-Fall semester
- November 1st-Winter semester
- March 1st-Summer semester

**Students who are not U.S. residents or have transcripts from outside the United States.*

Madonna University welcomes students of various ages, economic, cultural, experiential, and religious backgrounds. Consideration for admission is given to all qualified applicants who aspire to attain their educational goals within the philosophy and academic framework of the University. Prospective students are expected to possess the integrity, interest, and talents that will enable them to contribute to and benefit from the life and program of the University.

The University reserves the right to deny admission or matriculation, and/or require withdrawal, to any student who is in default on any Title IV HEA loans, falsifies any part of the application process, and/or for reasons considered appropriate by the University. Admission and matriculation are privileges with certain responsibilities.

Application Procedure

1. Submit a completed Application for Undergraduate Admission.

2. Provide proof of high school completion (final transcript after graduation with graduation date posted):
 - High school transcript from a regionally-accredited high school, or
 - GED transcripts, or
 - Homeschool program transcript, or
 - International Baccalaureate transcript, and/or
 - American Council on Education, and/or
 - College transcript(s) from a regionally-accredited college/university documenting 12 or more transferable credits (if fewer than 12, also provide high school/GED transcript along with college transcript).
3. Provide college transcript(s) from a regionally-accredited college/university documenting 12 or more earned credits (if fewer than 12, also provide high school/GED transcript along with college transcript). Students who indicate on the application for undergraduate admission or on the FAFSA, that they have not earned a high school diploma or equivalent, will be required to provide proof of high school completion.
4. Provide official document(s) of any additional work completed:
 - College Board Advanced Placement (AP)
 - Examination scores, and/or
 - Military transcript(s), and/or
 - American Council on Education (ACE) transcript(s)
5. The University reserves the right to request additional information before reaching an admission decision. Further, some academic programs and departments may require higher or additional requirements for admission. Students can review the Plans of Study portion of this University Catalog for additional information.

First-Year Applicants

Current students or graduates of a high school, homeschool program, academy, early college program, or equivalent in good academic and personal standing may be eligible for admission, provided there is evidence of potential success in a university environment. The minimum requirements are as follows:

- A minimum high school grade point average of 2.8, and
- Madonna University engages in a holistic admissions process to account for all aspects of students' life experiences. We remain test optional, so students are not required to submit ACT or SAT scores for admission, although they are welcome to do so if they have taken the exams. The SAT code for Madonna University is 1432. The ACT code for Madonna University is 2072.
- If applicable, official Advanced Placement (AP) test results: International Baccalaureate transcripts; American Council on Education (ACE) transcripts. Note that high school students with such advanced standing credits are admitted as First-Year students and are required to participate in the First-Year Experience program.
- If applicable, official college transcript(s) indicating final grade(s) of college credit earned while in high school. All college credit receives standard transfer credit consideration (see Transfer Credit); however, high school students with college credit are still admitted as First-Year

students and are required to participate in the First-Year Experience program.

NOTE: These requirements are for U.S. citizens and permanent residents only. International students, please see advising.

Transfer Applicants

High school or equivalent graduates who have earned college credits and are in good academic and personal standing may be eligible for admission, provided there is evidence of potential success in a university environment. The minimum requirements are as follows:

- A minimum 2.00 cumulative college grade point average, and
- Completion of two-thirds of all courses attempted. (If fewer than 12 earned credits, the official high school or equivalent transcript is required.)

Baccalaureate Graduates of Madonna University

Baccalaureate graduates of Madonna University returning for additional undergraduate-level study are not required to apply for readmission, but must reactivate their record with the Office of the Registrar.

Transfer Credit

The University will accept credits from regionally accredited institutions of higher learning.

All transfer credits accepted will be listed on the Official Transfer Credit Evaluation, along with a notation of the actual number of credits accepted and the Madonna course equivalency. The Official Transfer Credit Evaluation will be completed upon receipt of all official college transcripts. Only those courses completed at a regionally-accredited college/university with a grade of C (2.0) or better will be considered for transfer credit.

Students may transfer a maximum of 74 semester hours of credit from all regionally-accredited two-year colleges attended, unless otherwise noted per established articulation agreement. Students may transfer a maximum of 90 semester hours of credit from all regionally-accredited colleges or universities attended. Repeated courses or courses with duplicate subject content evaluated by Madonna University to be the same course will not be considered for transfer credit.

Grades of credits accepted in transfer are not transferred and are not calculated in the Madonna GPA.

All requests for adjustments, additions, and corrections to the Official Transfer Credit Evaluation must be submitted in writing to the Office of the Registrar within the semester following the student's admission to the University. In addition, credit will not be granted at a later date for course work completed at an institution not listed on a student's application for admission. A student may be dismissed if prior academic history is omitted in order to gain admission.

Residency Requirement

Transfer students pursuing their first baccalaureate degree at Madonna University must complete the requirements for general education, the University core, and the desired major. The last 30 semester hours of the 120 semester hours required for the bachelor degree must be earned in residence at Madonna University, including electives if necessary.

Transfer students pursuing an associate degree at Madonna University must complete the requirements for the MU Core Curriculum and the desired major. The last 15 semester hours

of the 60 semester hours required for the associate degree must be earned in residence at Madonna University.

Transfer students pursuing their second baccalaureate degree at Madonna University must complete the religious studies requirement of the MU Core Curriculum and the desired major. They must earn at least 30 semester hours in residence at Madonna University, including electives if necessary.

Note that advanced standing credits, such as those earned through Advanced Placement (AP), the College-Level Examination Program (CLEP) DSSTs, Prior Learning, and/or course competency examinations are ignored in counting residency credits.

Satisfying the Michigan Transfer Agreement (MTA)

Madonna University welcomes transfer students from community colleges whose educational goal is to pursue a bachelor degree or an additional associate degree.

Transfer students normally receive full credit for college-level courses completed with a grade of C (2.0) or better at other regionally-accredited collegiate institutions.

With completion of the stipulation of the MTA, Madonna recognizes that the MU Core Courses component of graduation requirements (listed under Core Curriculum for Associate Degree and Core Curriculum for Baccalaureate Degree in this catalog) has been completed. The student's official transcript from the two-year institution must indicate that the MTA has been satisfied.

Satisfying the MACRAO Transfer Agreement

Some students who began community college programs prior to 2014 may be able to meet requirements of the former MACRAO agreement until 2019. See your two-year college Registrar for information.

A "MACRAO-satisfied" certificate from a community college is recognized as fulfilling MU Core Curriculum requirements at Madonna University, within the stipulations in the next paragraph. The student's official transcript from the two-year institution must indicate that the MACRAO agreement has been satisfied.

In keeping with the philosophy of Madonna University, students whose transfer course work satisfies the MACRAO guidelines are required to complete, for a Madonna University degree, any of the following MU Core Curriculum courses not included in their transfer credits:

For a bachelor degree:

MU Signature Courses.....12 s.h.

- Goal 7-Literature and Informational Fluency (3 s.h.)
- Goal 8A-The Madonna Heritage* (3 s.h.)
- Goal 8B-Religious Studies (3 s.h.)
- Goal 9-Diverse Perspectives (3 s.h.)

MU Core Course**.....3-4 s.h.

- Goal 5-Mathematics (3 s.h.), **OR**
- Goal 6A-Biological Science (3-4 s.h.), **OR**
- Goal 6B-Physical Science (3-4 s.h.)

*Must be taken at Madonna University

**Madonna University bachelor degrees require one biological science course, one physical science course, and one mathematics course (one science course must include a laboratory experience). Complying with MACRAO guidelines will satisfy two of the three requirements.

For an associate degree:

MU Signature Course, SC-8A-The Madonna Heritage.....3 s.h.

- In the case of a MACRAO-satisfied transfer student for whom a MU Core Curriculum course cannot be transferred in because the grade earned was below C (2.0), a waiver of the requirement is to be stipulated by and documented in the Office of the Registrar.

Advanced Standing for Nontraditional Students and Prior Learning

Advanced standing policies have been designed to assist students in gaining credit for learning that they have acquired prior to enrolling at Madonna University or demonstrated through testing that can be correlated with college courses.

Students requesting advanced standing credit based on College Board Advanced Placement (AP) examinations with scores of 4 or 5 should have their AP scores sent to the Office of Undergraduate Admissions. Students requesting advanced standing credit based on International Baccalaureate (IB) or American Council on Education (ACE) credits should have their transcript sent to the Office of Undergraduate Admissions. These credits are evaluated with transfer credits upon admission.

Students with military credits on a Joint Services Transcript (JST) should have their branch send an Official Military Transcript to the Office of Undergraduate Admissions. These credits are evaluated with transfer credit upon admission, following standards of the American Council on Education (ACE).

Students requesting advanced standing credit based on CLEP examinations or DSSTs should check with their success coach or academic advisors to see which tests are accepted. Students must make arrangements to take these tests at an approved testing center. Other forms of prior learning credit potentially available for external study experience or professional training see the Prior Learning section of this Catalog for further particulars.

Notification of Admission

Generally, all applicants can expect to receive written notification of their admission status within a period of two weeks after submitting all required application documents to the Office of Undergraduate Admissions. Exceptions to this practice involve those programs of limited access, which may, in some cases, result in a delay of notification.

Following notification of University admission, students are required to meet with their success coach or academic advisor to design an individualized plan of study. Students will be notified of their academic standing, graduation requirements, success coach, academic advisor, and other related academic information within two weeks of their admission date. Students must meet the University Core Curriculum requirements of the University Catalog in effect at the semester for which they are formally admitted or readmitted. Graduation requirements in the major must be met according to the University Catalog in effect at the time the major is declared.

Students who do not complete the formal admission process after their first semester of enrollment may have their admission status suspended and/or cancelled, jeopardizing future enrollment.

Non-admitted Students/Non-degree-seeking Students

A student may register for no more than two semesters in the non-admitted and/or non-degree or credential-seeking student status. Students in this status must complete a "Permit-To-Register" through the Office of Undergraduate Admissions. Students are asked to complete an Undergraduate Admission Application, if applicable, within 2-3 weeks. One additional "Permit-To-Register" is allowed for the next semester of attendance.

The credits earned while attending as a non-admitted and/or non-degree seeking student may or may not be applicable towards a degree or certificate at a later date. Financial aid is not available for students in this status.

Lapse of Admission and/or Registration (Readmission)

The admission files of applicants who are admitted for a specific semester but do not matriculate or whose files are incomplete are held in the Office of Undergraduate Admissions for no more than one year following the student's official application semester. After this period, non-matriculated applicants must reapply for admission consideration.

Students admitted to Madonna University who have not been in attendance for two years, or who have transferred to another institution of higher education, are required to complete an Application for Undergraduate Admissions for readmission consideration. Students who are readmitted to the University must meet the degree requirements of the University Catalog which is in effect at the time of readmission. Credits earned in certain fields more than seven years prior to admission or readmission may not be valid as degree credits.

New Student Merit Scholarship Program

Madonna is pleased to offer specific Merit Scholarship opportunities to new incoming students. (The University offers additional financial aid and scholarship opportunities that are available to all students, incoming and continuing. See the Financial Aid section of this Catalog.) To be eligible for these merit scholarships students must be new incoming students who are officially admitted, have a minimum GPA (some scholarships have higher and/or additional requirements), and be enrolled full-time (12 s.h. or more), unless otherwise noted. For transfer students, the GPA is recalculated at the time of admission. The minimum GPA for students attending directly from high school or homeschool is 2.8. The minimum recalculated GPA for transfer students is 2.5. A complete listing of merit scholarships is available through the Office of Undergraduate Admissions.

Merit Scholarship General Terms and Conditions

- The University will notify students in writing if they have earned a merit scholarship/award, and include the award in the Financial Aid Award Letter.
- Scholarships/awards only apply to the fall and winter semesters, unless otherwise noted. Scholarship/award amounts may be reduced consequent to federal, state, and other scholarships and grants awarded to the student that would result in exceeding tuition costs.
- New student merit scholarships are automatically renewed provided the student maintains academic progress (see University Policies/Academic Standards for more information on Satisfactory Academic Progress).

- Scholarship recipients are required to be full-time (12 or more semester hours per semester) enrolled undergraduate students unless otherwise noted. (Advanced standing credits such as those earned through Advanced Placement [AP], College-Level Examination Program [CLEP], DSSTs, Prior Learning, and/or course competency examinations are not counted toward full-time enrollment status.)
- Residence hall grants are based on room availability and can only be used for room cost (not to be used for tuition, meals, or other University costs).
- Students must complete any scholarship applications (i.e., application, letters of recommendation, essay, and/or other requirements) by posted deadlines for award consideration.
- Students awarded a merit scholarship(s) are encouraged to apply for other financial aid consideration via the Free Application for Federal Student Aid (FAFSA).

Dual Enrollment for High School Students

Madonna University provides an opportunity for qualified high school students to enrich their education while concurrently enrolling for classes at Madonna University. High school students wishing to attend Madonna University through dual enrollment need to complete the dual enrollment application, available in the Office of Undergraduate Admission, with the assistance of their high school counselor or principal. (**NOTE:** homeschooled students are also eligible, without high school approval.)

Dual enrollment students are granted the full privileges of any Madonna University student (e.g., library, research, and computer laboratory access). Students are expected to complete all requirements for high school graduation mandated by their high schools. After high school graduation, admission to a degree program at Madonna University is granted to students meeting the minimum admission requirements.

Dual Admission/Matriculation for Designated Distance Learning Programs

Dual admission/matriculation is defined as simultaneous enrollment at Madonna University and one more other accredited higher education institutions. Distance learning programs are those programs in which students receive instruction through a variety of modalities remote from the University campus in Livonia or its official outreach sites. Distance learning programs depend upon collaborative arrangements with other institutions to provide prerequisite and University Core Curriculum courses and often entail dual admission.

Therefore, *only those admitted students who are in designed distance learning programs* may simultaneously gain admission to and attend one or more other accredited higher education institutions. Courses completed under this arrangement will apply towards certificate or degree requirements at Madonna University.

Articulation Agreements

Madonna University has articulation agreements with regionally-accredited two-year colleges. Through these agreements, students may be admitted directly into selected upper-level college courses. For more information on these agreements, please contact the Office of Undergraduate Admissions.

International Students

International students are encouraged to apply for admission to the University at least one semester before enrolling in classes. Applicants to Madonna University who are graduates

of a high school outside the United States must have academic preparation equivalent to that required for eligible U.S. high school graduates. In addition to fulfilling the admission requirements previously listed, these students must submit the following documentation:

1. Financial statement, issued within the most recent six months, from a bank, government agency, or other financial institution, indicating the financial resources of the applicant or the sponsor of the applicant.
2. Copy of passport identification page.
3. For non-native speakers of English, official results of TOEFL (iBT score of 70), IELTS (score of 6.0), MET (score of 51), or agreement to be tested using a Madonna University institutional English placement test upon arrival on campus.
4. Residence Hall contract. (International students with no residence in the United States are required to live on campus during the first year of study.)

Tuition and fees: Full payment is expected by the due date as outlined in Payment Plans in the appropriate Academic Planning Guide.

Additional policies relating to international students may be obtained from the International Student Handbook, available from the International Student Office.

Non-Native Speakers of English

In line with our mission to support the academic success of all our students, Madonna University recognizes the non-native speakers of English need a level of English skills adequate to their classroom work, and requires them to demonstrate the level of their English proficiency. The University offers courses in English as a Second Language (ESL) to assist students to raise their proficiency level.

Since these ESL courses are specifically designed to prepare students for the English proficiency necessary to complete their academic course work, and are designated English for Academic Purposes (EAP), all non-native speakers of English are welcome to elect ESL courses to sharpen their skills. Successfully completing ESL courses can help students avoid frustration in their studies and help toward achievement at a level more satisfactory to each scholar.

The requirements to demonstrate English language proficiency applies to the following four groups of applicants, and exists to assure that their knowledge of English is sufficient for successful completion of their degree program:

- F-1 visa students, who are non-native speakers of English;
- transfer students whose first language is not English (regardless of immigration status);
- recent U.S. high school graduates who may have studied ESL in high school;
- permanent residents or citizens of the United States whose first language is not English.

In order to qualify for **regular admission** to the University, applicants who are non-native speakers of English must meet one of the following English language proficiency requirements:

- Degree from an accredited high school, college, or university in the United States, Australia, the Bahamas, Canada (English language institutions only), Guyana, Ireland, Jamaica, New Zealand, South Africa (English language institutions only), or the United Kingdom.
- Full four years of attendance at and graduation from a U.S. high school with standard-track English, and if available from within two years of making application, acceptable ACT or SAT scores; **or**

- Completion of 24 transferable credits, excluding ESL courses, from a U.S. two-year or four-year institution; **or**
- Matriculation from the British high school with completion of at least three Advanced Level examinations; **or**
- International Baccalaureate diploma (IB) with a minimum of 3 higher level subjects; **or**
- Internet Based TOEFL (iBT, Test of English as a Foreign Language) with a minimum score of 70; **or**
- MET score of 51+; **or**
- IELTS score 6.0+; **or**
- PTE Academic score of 48+; **or**
- Completion of the Michigan Language Center program at the Advanced Level 3 with the following scores: MLC EPT (65), MLC Writing evaluation (16.5), and MLC Speaking evaluation (16.5); **or**
- GTEC scores of 1126+; **or**
- Completion of ELS Level 112 Intensive Program – English for Academic Purposes; **or**
- Duolingo English Test score of 105+.

Students who do not meet the listed standards may obtain **provisional admission** to the University; they are assigned to the ESL advisor and are required to successfully complete one or more semester of the Intensive English program. Intensive English is offered at six proficiency levels: low-intermediate, intermediate, high-intermediate, pre-advanced, advanced, and high-advanced. Full time enrollment for Intensive English is for 16 s.h. per semester and scheduling is for 20 classroom hours per week. Those students who need to document full-time student status may obtain the appropriate verification.

Students' English skills are retested at the end of each semester in the Intensive English program. When successful English scores are achieved, the student moves to regular admission status and a regular program advisor.

ESL courses are credit bearing, and the credit for 4000-level ESL courses may apply towards the baccalaureate degree requirements. ESL course grades are included in computing the student's grade point average (GPA).

ESL 4230, Research Paper Writing, is taken by non-native speakers of English in place of WRT 1020 and fulfills the MU Core Curriculum requirement for CC1A.

Recognized Non-Collegiate Credit

Madonna University may grant credit for certain non-collegiate prior learning, according to the guidelines in the Prior Learning section of this Catalog.

Upon admission to Madonna University, students who have completed an approved program of study are able to obtain transfer credits which can be applied toward the requirements of specific majors within the University, or, often, be used as general electives within other programs of study. Specific guidelines and requirements vary.

Credits will be transcribed by the Office of the Registrar after the student is admitted and has enrolled. *It is the responsibility of the student to verify with his/her success coach or academic advisor that procedures and paperwork for this transcription are in place.* Additional information may be obtained through the Office of Undergraduate Admissions.

Listed below are prior learning experiences routinely reviewed by relevant Madonna programs. Students who believe they have other prior learning experiences for which credit may be available should refer to the Prior Learning section of this Catalog, for more information regarding guidelines and how to proceed.

Michigan Fire Fighters Training Council: Persons who have completed the programs offered through the Michigan Firefighters Training Council may request experiential learning credits through the Program Director for the Criminal Justice Department. Credits to be awarded are determined on an individual basis. These credits may apply toward a Madonna credential including as major or minor, support, elective, or degree completion requirements.

Certified EMS Programs: Graduates of a state-certified EMS program may request experiential learning credits, depending upon their current state licensure as a Basic EMT or Paramedic EMT, through the Program Director for the Criminal Justice Department. These credits may apply toward a Madonna credential including as major or minor, support, elective, or degree completion requirements.

Credits earned in Military Service: Persons who earned credit during military service that is posted with their discharge papers should request their transcripts be sent through the Joint Services Transcript (JST) system to the Office of Undergraduate Admissions. These credits will be evaluated upon admission, considering the standards of the American Council on Education (ACE).

Specs Howard School of Media Arts: Students who have completed the Specs Howard *Broadcast Media Arts* program in core radio, television, and news media broadcasting skills are granted *up to* 24 semester hours to be applied as the specialty area within the Madonna University Broadcast and Cinema Arts major (only), associate or bachelor degree. Students apply to the Broadcast and Cinema Arts, Communication, and Writing department for the credit.

Students who have completed the Specs Howard *Graphic Design* program are granted *up to* 24 semester hours to be applied as the specialty area with the Madonna University Graphic Design major (only), bachelor degree. Students apply to the Art and Music department for the credit.

Tuition and Fees

Madonna University believes that higher education should be affordable to all who seek it; therefore, tuition is maintained at the lowest possible level. The following schedule begins in the Fall Semester of the Academic year 2026-2027. Tuition rates are reviewed annually.

Tuition Rates

Full tuition payment is expected by the due date outlined in Payment Plan 1 of each semester's Academic Planning Guide: Payment Plans.

Undergraduate Livonia Campus

1-11 Credits.....	\$1,020 per Credit
12-18 Credits.....	\$15,300 Flat Rate per semester (credits 16, 17, 18 are free)
19 Credits+..	\$15,300 Flat Rate plus \$1,020 per Credit over 18
Additional Tuition for NUR Courses.....	\$144 per Credit
High School Dual Enrollment.....	\$240 per Credit

Undergraduate Domestic Satellite and Online

Campuses

1-18 Credits.....	\$570 per Credit
Accelerated Bachelor of Science in Nursing (ABSN)	
.....	\$1,028 per credit for nursing courses
.....	plus \$84 per credit for nursing courses (fees)
.....	\$570 per credit for non-nursing courses
Credit by Exam.....	\$325 per credit
High School Dual Enrollment—High School Campus	
.....	Varies based on high school program - per Credit
Noncredit.....	\$550 per hour

English as a Second Language Program

ESL – Lower Level (1000, 2000, 3000-level).....	\$360 per Credit
ESL – Upper Level (4000, 5000-level)	\$360 per Credit
Non-Credit ESL Courses.....	\$360 per Hour

Fees

Madonna University reserves the right to change fees without advance notice. Inquiries relating to fees should be referred to the Student Accounts Office in writing or sfs@madonna.edu or call (734)-432-5600.

General Fees

Deferred tuition Fee: All tuition and fees are payable in advance, unless the student chooses to participate in one of the available payment plans. (See plans in Academic Planning Guide.)	
Payment plan.....	\$35
Late Payment Penalty for unpaid balances	\$200
Late enrollment (charged to students who attend class without enrolling).....	\$50
Returned check penalty.....	\$25
Graduation Fee*:	
Application for Graduation: Undergraduate/Master's.....	\$100
Application for Doctoral Graduation.....	\$125
Application for Undergraduate/Graduate certificates.....	\$10
Late Submission of Application for Graduation.....	\$10

Madonna OneCard ID:

Lost Card.....	\$10
Slingshot Spirit Store Fees:	
Shipping charges.....	Per order delivery
Rentals Not Returned.....	Per rental not returned
Replacement Fees	
Diplomas.....	\$30
Certificates.....	\$15
Re-Issuance of I-20.....	\$25
Transcription Fee.....	\$50
Transcript Issuance Fee:	
Transcripts, each copy.....	\$10
Note: Transcripts are available online or in-person; cost varies with delivery method (please check MU website under WWW.MADONNA.EDU/TRANSCRIPTS for details.	
Expedited or International Mailing (DHL 2-3 day).....	\$75

Parking Fee*

Residential students...	\$110 per fall/winter semester for the residence lot, or \$70 per fall/winter semester for the East Lot or designated student section of South Lot A.
Commuter students.....	\$50 per fall/winter semester
Summer - all students.....	\$30
Temporary permits.....	\$3 per day
Two cars per student.....	\$80 for the academic year for second car
Guest and special event permits are available at no charge.	
No charge for students who don't have a car on campus if registered as such by deadline.	
*Indicates non-refundable fee.	

Liability Insurance

Students are required to obtain professional liability insurance prior to beginning a Field practicum. This insurance is valid for three consecutive semesters (one year). Please retain a copy of your receipt for your records. It should be purchased when you apply for your field placement, with coverage amounts set at \$1,000,000 per occurrence and \$3,000,000 in total. Insurance can be purchased at the Enrollment Center or online through My Portal for \$21.

The coverage periods are as follows:

- May 1 to April 30
- January 1 to December 31
- August 15 to August 14

Residence Hall Fees(rented per semester)(Fall & Winter) Room (rented per semester)

Residential contract deposit fee.....	\$250
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Choice of University Center (UC), Living Learning Community Center (LLC), or Apartment Center (AC)

Rate 1	\$11,300 two semesters /\$5,680 per semester
Single in 5-bedroom apartment (AC); Single with private bath (UC)	
Rate 2	\$10,100 two semesters /\$5,050 per semester

Large single w/sink & community bath (UC & LLC);
 Single w/semi-private bath (UC & LLC)
Rate 3..... \$8,200 two semesters / \$4,100 per semester
 Double w/semi-private bath (LLC); Quad w/living room
 & community bath (UC); Small single w/sink &
 community bath (UC)

Rate 4..... \$6,892 two semesters / \$3,446 per semester
 Double w/sink & community bath (UC)

*NOTE: Room rental fees and meal plans are per semester.
 Refund policies align with the University's full-term course
 withdrawal policies with the exception of the first two weeks
 of each semester. During those two weeks, students
 withdrawing from the residence hall are charged a weekly
 rate for both room and meals.*

Board—Residents (Choice of Following Plans)

Plan A: 19 meals per week plus \$60 Crusader Cash
\$3,200 per semester
 Plan B: 14 meals per week plus \$165 Crusader Cash
\$3,060 per semester
 Plan C: 10 meals per week plus \$225 Crusader Cash
\$2,910 per semester
 Plan D: Block meal plans (price per block)
 100-meal block plan \$880
 50-meal block plan \$446
 25-meal block plan \$240
 10-meal block plan \$96

Students in Rate 2, 3, and 4 Rooms are required to select
 from Meal Plan A, B, or C. Students in Rate 1 Rooms are
 required to select from Meal Plan A, B, C, or a 100-Meal Block
 Plan for the year.

Selective meals are available at the 1551 Grill in the Take 5
 on the Livonia campus. Because of the contractual
 arrangements relating to service in the Dining Hall, no refund
 will be made on the board fee. Occasional or week-end
 absences are non-refundable.

The value of your meal plan and related Crusader Cash is
 loaded onto your Madonna OneCard. You must swipe your
 card before every meal/purchase in the University Center
 Dining Hall and the Take 5.

Commuter Meal Plans

Choose the right amount for you. Each dollar purchase
 earns you the same amount in Crusader Cash. Meal plans
 may be purchased. Just swipe your Madonna OneCard to
 remit payment at: Take Five--1551 Grill and Residence Hall
 Dining in Livonia. See website for details.

Incidentals

Key Replacement.....\$50

Students may register for courses when the past due financial obligations have been met.

Students may register online (ID number and password
 required) through the Madonna University website,
www.madonna.edu, or at the Office of the Registrar.
 Registration forms are located in the current semester's
 Academic Planning Guide or at the Registration counter.
 Tuition and fees may be required at the time of registration.
 See each semester's Academic Planning Guide for payment
 due dates.

Students whose accounts are past due for a current
 semester's enrollment, or who are in debt to the University at
 the end of any semester, are not entitled to register for classes
 or receive a diploma or certificate until the account is settled.

E-Billing and 1098-Ts

Madonna University does E-Billing and E-1098-Ts. Both are real-
 time statements, available using the Madonna University MY
 Portal, accessed from the Madonna web site at
www.madonna.edu (click on **MY Portal** and enter your
 Madonna University ID and password). Email reminders are
 sent to each student's email @my.madonna.edu about two-
 to-three weeks prior to the due date available in each
 semester's Academic Planning Guide. For students who are
 not attending in the January semester, 1098-Ts will be mailed.

STUDENT PAYMENT POLICIES

**Checks should be made payable to
 MADONNA UNIVERSITY.**

**NOTE: ALL TUITION AND FEES MUST BE PAID IN
 U.S. CURRENCY.**

An online payment system is available using the Madonna
 University MY Portal at www.madonna.edu (click on **MY
 Portal** and enter your ID and password).

- Pay **by e-check**: no service fee. (E-checks processed
 incorrectly are charged the \$25 returned-check fee.)
- Pay **by credit card**: credit card payments are charged a
 service fee of 2.95%. Madonna University uses a third-
 party payment vendor. (The Student Financial Services
 Office is not able to process credit card payments at the
 service window or over the telephone.)
- Payment may also be sent by mail; however, the
 university is not responsible for lost or delayed mail. The
 assessment of registration adjustments and late penalty
 charges will be determined by the postmarked date.
- *No statements are mailed.* Due Dates are available using
 the Madonna University MY Portal, accessed from the
 Madonna web site at www.madonna.edu (click on **MY
 Portal** and enter your Madonna University ID and
 password). Notification will be sent to your
 @my.madonna.edu email address. **You can review and
 print your own invoice** using your email credentials, from
 the Madonna University MY Portal.

NOTE: Approximately two weeks prior to the due date, a
 reminder notice is sent to your @my.madonna.edu email.
 Students who register, or add to their registration, as of the first
 due date for the semester are required to remit payment at
 the time of registration or changes to an existing registration.
 Students registering for non-credit or CEUs are required to pay
 100% of the charges at the time of registration.

Payment Options

1. Tuition and fees are payable in advance in full, in U.S.
 currency, at the time billed. Students may pay by cash,

check, e-check, or credit card (MasterCard, Discover, American Express, Visa).

2. Students who do not pay in full in advance may choose to participate in one of the available payment plans, at an additional cost (see the Academic Planning Guide for available plans). Participation in a payment plan incurs the Payment Plan Service Fee.
3. Payment may be made through the direct crediting of a financial aid award to the student's account, provided that the award is sufficient to cover the required advance minimum payment. This plan excludes university work-study awards. Students with an insufficient amount of financial aid to cover the minimum advance payment are required to pay the difference by the invoice due date. Students who have not received their office award verification notice prior to the billing close date are also required to pay the minimum advance payment when due.
NOTE: The following student assistance programs, for which the student has applied and/or been approved but from which the student has not yet received funds, will not serve to release the student from the obligation of required minimum payments when due: special department awards and veteran benefits (with the exception of student participating under VA: Post-9/11 GI Bill® or Veteran Readiness and Employment (VR&E)).
4. Students whose employer or other third-party payer is to be invoiced for tuition and expenses may submit a billing authorization form prior to the due date in lieu of the advance payment.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <https://www.benefits.va.gov/gibill>.

Application of Discount

Madonna University offers tuition discounts to qualified students. A student may claim only one applicable discount in a given term. The discount to be applied (such as Alumni discount, Senior Citizen discount, etc.) will be the one which provides the "optimal" reduction in tuition for the student.

Billing Error or Dispute

If you believe there is an error or mistake on your bill, submit your concern in writing within 30 days. Your written inquiry must include: your name, student ID#, a description of your presumed error, and the dollar amount of the presumed error. You are responsible for paying the portion of your bill not in dispute, but the disputed amount may remain unpaid until such time that the problem is resolved. Send billing inquiries to Student Financial Services, Madonna University, 36600 Schoolcraft Road, Livonia, Michigan 48150-1176, or sfs@madonna.edu.

Tuition Credit Adjustments

Students are required to drop or withdraw officially from classes in person or in writing through the Office of the Registrar. Written notification may be faxed over the weekend or after business hours to fax number (248) 479-0585. Students may drop/withdraw in person during business hours. The date that the Office of the Registrar receives the request via fax, or in the case of a withdrawal form sent by US Mail, the postmark

date, determines the amount of any adjustment of tuition after classes have begun.

Students who do not officially drop or withdraw from a class within the specified add/drop periods are responsible for full tuition and fees from the courses. In such cases, the grade of F or FW is entered for the courses on the student's transcript.

Tuition credit adjustments are made according to the following schedule. *(At the time of withdrawal only tuition is adjusted. No other fees are changed.)*

FULL SEMESTER courses and courses that start the first week of classes and are eight weeks or longer:

Add Week.....100%
Drop Week.....100%

For All Other Courses

Tuition credit adjustments for all other courses are defined by the following schedule:

Course Duration	100% Tuition Refund* (course must be dropped by close of business on this day)
4 weeks or less	1 st day of class
5-7 weeks	2 nd -7 th day
8-15 weeks	8 th -14 th day
*no refund for course withdrawals after the day specified	
NOTE: Day count begins on first day of course, not first meeting; see the Portal for course dates.	

NOTE: Students unable to complete the withdrawal process within the designated time periods, or those compelled to withdraw completely at any time because of circumstances beyond their control, may appeal the credit adjustment decision in writing. Obtain the Special Academic or Administrative Requests form from www.madonna.edu>Registrar>Forms>Special Request. Completed forms, signed and dated by the student, are to be submitted to the Office of the Registrar.

Refunds

When students decrease their schedule or drop from classes, only certain credit for the total tuition commitment can be granted based on the above credit adjustment schedule. A *credit adjustment is not necessarily a refund*. If the credit is greater than the amount due, the difference is refunded to the student. If the credit is less than the amount due, the difference must be paid by the student.

Students whose tuition was paid all or in part from financial aid funds will have all or a portion of the refund restored to the aid program; therefore, students may not be eligible for a cash refund.

A student's account that has a credit balance from financial aid/loans is automatically refunded within 14 days after the funds are disbursed. Madonna University has partnered with BankMobile, a financial services company, to manage refunds with new options for processing.

New students who have their Social Security number and photograph on file will receive a Madonna OneCard ID within three weeks following enrollment for their first semester. Students go online at www.MadonnaOne.com to activate their cards and choose their method of receiving disbursements. The Madonna OneCard ID is the fastest, easiest way to receive a financial aid or student loan refund.

The card must be retained for account access. There is a replacement cost for lost cards.

Non-Refundable Fees

1. **Graduation fee:** A non-refundable fee of \$100 is charged each undergraduate student who applies for graduation. The application is valid for one year from the semester for which the student is applying. Students may obtain an Application to Graduate form from the Office of the Registrar or from the Madonna University website at www.madonna.edu. The application form must be completed, signed by the student's advisor, and presented to the Office of the Registrar after the fee is paid. Deadlines to be adhered to are clearly indicated on the University Calendar.
2. **Room and Board fees:** These fees are refundable in accordance with the full-semester tuition credit adjustment schedule. Rooms are rented for a semester; after the 2nd week of school, no refund is made in case of withdrawal. No refund can be made on the board fee because of contractual arrangements relating to services provided.
3. **Parking Fee:** See information above and below.

Parking Fee

Full details of the Parking Policy and Traffic Regulation, maps with parking lot designations and the Student Parking Registration form are posted on MY Portal at <https://myportal.madonna> (login is not needed).

To register your vehicle, please use the Student Parking Registration form on MY Portal. You will need your vehicle's VIN number, year, make and model, and license plate number. Within 24 hours after submitting your registration, you may pick up your permit at Campus Safety, Room W123 in the West Wing, or Student Accounts. Parking fees are for the academic year and must be renewed each fall. One of the applicable student permit fees will be placed on your student account, based on your residency or commuter status. Once you register and indicate your parking choice or that you won't have a vehicle on campus, your account will be adjusted to reflect the appropriate fee for your parking choice.

Campus Safety enforces parking regulations 24 hours a day based upon posted restrictions and parking and traffic regulations. Permits must be displayed on all vehicles in Madonna University parking lots within the first week of the start of the semester. The parking permit must be properly displayed on the interior, lower corner of the vehicle's driver's-side windshield.

Residence Hall Fees

Room Damage

Upon check-out, any damages to the room that are assessed at the time are applied to the student's account.

Room Reservation Fees

Contracts are available online at www.madonna.edu>Residence Life, at the Student Accounts Office, or at the Residence Hall. Note: To access the 2020-2021 Housing Application, you must have a Residence Hall

Student Enrollment Deposit on file. Deposits can take up to two business days to process.

The required payment that is to be remitted with a contract cannot be paid from your expected financial aid.

New Residence Hall Students—A \$250 payment is required with a completed contract.

Returning Residence Hall Students—A deposit has already been remitted. Residence hall deposits are returned to the students and will be returned until the student no longer plans to return to the Residence Hall. New students who remit a residence hall deposit but decide not to live in the Residence Hall will forfeit the deposit.

Room Reservations for Residence Hall

Reserve a room in the residence Hall by doing the following:

- Remit a deposit of \$250.
- Complete the Residence Hall Contract.

The deposit can be made by check, money order, online payment, or wire transfer. Please note that no room is reserved until the deposit and a completed contract is received by the Student Accounts Office.

The room deposit will be applied to your room payment and is non-refundable. If you do not move into the Residence Hall. The deposit will be forfeited.

For international students—if your visa should be denied, the room deposit will be reimbursed in full.

Students Called to Active Military Duty

Students who are called to active military duty and have their program of study disrupted may contact the Office of the Registrar to determine a satisfactory arrangement with regard to their academic program. Options will vary depending on the timing of the request within the semester. Options may include:

- dropping the courses with full tuition and fee refund;
- completion of a course(s) at a later date;
- online or independent study;
- or some other mutually agreeable resolution.

Students will need to provide a copy of their military orders. Students called to active duty will be allowed to pursue finishing their incomplete course work within one academic year after completing their active military duty.

Room and Board fees will be refunded on a prorated basis for actual services the student received up to the date of withdrawal.

Student aid recipients who withdraw from school because they are called to active duty, or are otherwise affected by mobilization or terrorist attacks, will not be required to return financial aid funds they received for books and living expenses.

It is the intent of the university that no student suffer a loss of funds or educational opportunity because they were called to military service.

If you have any questions, contact the Office of the Registrar, Room 2003, (734)-432-5309.

Financial Aid

Madonna University provides financial assistance to admitted students whose scholastic aptitude merits a scholarship and/or whose personal and family resources are inadequate to meet the educational cost. All students are urged to apply for financial aid.

The primary responsibility for financing a college education rests with the student, the parents, and/or the spouse. Financial aid is a supplement to the funds which can reasonably be provided by the applicant and the applicant's family. The student is expected to contribute toward education expenses through savings, employment, untaxed income, and earnings from the student's spouse and/or parents.

The demand for student aid exceeds the supply of funds available; therefore, most financial aid programs must limit their awards to students who can demonstrate need according to a nationally-accepted formula which is applied uniformly to all individuals applying for aid.

Students who receive federal, state, or institutional financial aid may have their financial aid package adjusted or reduced if they receive private scholarships or grants, third-party payments, or other sources of funding that exceed their tuition charges or cost of attendance as calculated by the Financial Aid Office.

Eligibility for Financial Aid

The eligibility requirements for most Federal and State programs are as follows:

- The student must be a U.S. citizen*, national, or U.S. permanent resident who has an I-151 or I-551 (alien Registration Receipt Card) or I-94 with proper endorsement.
**Michigan residence for Michigan Tuition Grant and Competitive Scholarship.*
- The student must be enrolled in an eligible course of study on at least a half-time basis* (six credit hours). NOTE: Credit by examination, audit, life experience, and/or experiential learning credits are NOT counted in determining a student's eligibility for any type of financial aid.
**Students less than half-time may qualify for some programs. See the Financial Aid Office for details.*
- The student must have a high school diploma, a GED, or have completed a two-year program that is acceptable for full credit toward a bachelor degree.
- To be eligible to receive and/or to continue to receive financial aid, the student MUST be making Satisfactory Academic Progress. More detailed information on Satisfactory Academic Progress is available elsewhere in this Catalog, and upon request from the Office of Undergraduate Student Advising and Success.
- The student must not be in default on a student loan or owe an overpayment on a student grant.
- The student must demonstrate financial need.

In addition to the criteria listed above, applicants must be officially admitted to Madonna University and be enrolled in a

degree program to be eligible for federal or state aid programs, including but not limited to Pell Grant, Supplemental Educational Opportunity Grant, Federal Work Study, and Direct Student Loan programs.

Application Procedure

To be considered for federal, state, and most Madonna University programs, apply for financial aid using the Free Application for Federal Student Aid (FAFSA) which is available online at www.fafsa.gov.

Students should apply as early as possible each year. The FAFSA is open October 1st for the subsequent academic year.

NOTE: Students need to apply once each academic year.

Students whose application is selected for verification may be required to provide additional supportive documentation (tax information, child support paid, etc.).

Students who are not U.S. nationals may be asked to provide a copy of their I-151 or I-551 (Alien Registration Receipt Card) or I-94 with proper endorsement.

Once the FAFSA has been reviewed, instructions will be sent on how to access with the Madonna University Online Financial Aid System, *My Financial Aid*. Students will be able to check the status of their applications, download requested forms, and view financial aid awards.

Federal Aid Programs

FEDERAL PELL GRANTS:

Undergraduate students from limited income families may be eligible on the basis of financial need.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG):

The federally funded Supplemental Educational Opportunity Grants may be awarded to undergraduate students whose financial aid applications demonstrate exceptional need. These grants may be renewed each year that need is shown and funds are available until the student completes an undergraduate degree. Amounts vary depending on need.

FEDERAL WORK STUDY:

The Federal Work Study Program encourages on-campus employment for undergraduate and graduate study who demonstrate financial need. These jobs are secured through the Office of Career Development.

FEDERAL DIRECT STUDENT LOANS:

SUBSIDIZED: Available to undergraduate students with financial need. The interest on the loan is paid by the government while the student is enrolled at least half-time. Loan amounts vary depending on the student's enrollment level, dependency status, and the year in school.

UNSUBSIDIZED: Available to undergraduate and graduate students regardless of financial need. The interest IS NOT paid by the federal government while the student is enrolled in school. Loan amounts vary depending on the student's enrollment level, dependency status, and the year in school.

FEDERAL DIRECT PLUS LOANS FOR PARENTS:

Available to creditworthy parents of dependent undergraduate students and regardless of financial need. Parents may borrow up to \$20,000 per year, \$60,000 lifetime per dependent.

Detailed information regarding application procedures, current loan amounts, interest rates, deferment, postponement, cancellation, and repayment provisions for the loans listed above are available upon request from the Financial Aid Office and at www.fsa.gov.

Michigan Aid Programs

MICHIGAN ACHIEVEMENT SCHOLARSHIP:

The Michigan Achievement Scholarship Program provides scholarships to qualifying undergraduate Michigan residents who graduated high school in 2023 or later.

MICHIGAN TUITION GRANTS:

The Michigan Tuition Grant Program provides grants to qualifying undergraduate Michigan residents with financial need.

The Michigan Achievement Scholarship and Tuition Grant awards are restricted to tuition and some mandatory fees. If eligible, students may receive the equivalent of ten (10) semesters of full-time assistance as an undergraduate.

For more information on Michigan Aid Programs, visit: <http://www.michigan.gov/mistudentaid>.

Madonna University Aid Programs

Madonna University offers Service/Scholarship Awards, Honorary scholarships, Endowment Scholarships, and Annual Funded scholarships to both incoming and continuing students.

Madonna University offers merit scholarships to new, incoming students, awarded at the time of admission. These scholarships are competitive and only awarded to new students. A complete listing of the merit scholarships can be obtained through the Office of Undergraduate Admissions.

Scholarship General Terms and Conditions

To be eligible for University awards and scholarships, a student must be officially admitted, have a minimum 3.0 GPA (some scholarships have higher requirements), and be enrolled full-time (12 s.h. or more) unless otherwise noted. For transfer students, the GPA is recalculated at the time of admission.

- The University will notify students in writing if they have been selected for a scholarship/award, and include the award in the financial aid package.
- Scholarship recipients are selected by a committee and are awarded based on cumulative grade point average, community involvement, personal accomplishments, and documented financial resources.
- Scholarships/awards only apply to the fall and winter semesters, unless otherwise noted.
- Scholarship recipients are required to be enrolled full-time (12 or more semester hours per semester) unless otherwise noted.

HONORARY SCHOLARSHIPS ESTABLISHED BY MADONNA UNIVERSITY

- Mother Mary **DeSales** Scholarship (1947): awarded to a graduate of Ladywood High School or other Catholic high school.
- Felician-Franciscan** Scholarship (1982): awarded to a Felician Sister or Postulant recommended by the Director of Ministry of Our Lady or Hope Province. Preference will be given to a candidate who is enrolled full-time.
- Anton **Jakobs** Scholarship (1968): awarded to a community college graduate.
- Sister May Paulette **Krakowski**, CSSF, Scholarship (1984): awarded to a Catholic high school graduate.
- Jack **Krasula** Athletic Scholarship (2000).
- Sister Mary Joela **Patelski**, CSSF, Scholarship (1984): awarded to a Catholic high school graduate.
- Bishop John **Quinn** Scholarship in Memory of George and Mary Quinn (1979).
- Sister Mary Danatha **Suchyta**, CSSF, Scholarship (1976): awarded to a Catholic high school graduate.

ENDOWMENT SCHOLARSHIPS

- Aging Studies Scholarship** (1980): awarded to a gerontology major. Established by Madonna University Aging Studies Department.
- Madonna University **Alumni** Association Scholarship (1985): awarded to a child or legal dependent of a Madonna University graduate. Established by the Madonna University Alumni Association.
- Bishop Moses B. **Anderson**, SSE, and Dr. Frank Hayden Scholarship: awarded to African-American students of the Detroit Metropolitan area. Established by Bishop Moses B. Anderson, Auxiliary Bishop of the Archdiocese of Detroit.
- Archdiocesan** Catholic Minority Student Scholarship (1991): Established by Adam Cardinal Maida of the Archdiocese of Detroit.
- Bala/Wlodarczak** Scholarship (2004): awarded to a full or part-time student with a major in the College of Arts and Sciences or College of Education and Human Development. Established by the Wlodarczak family.
- Robert K. and Betty J. **Barbour** Scholarship (1998): awarded to students enrolled in health care programs. Established by Robert K. and Betty J. Barbour.
- Mary L. **Barela** Scholarship (2022). Established by Anthony Barela.
- Diane M. **Bargagna** Scholarship (2001). Established by Diane M. Bargagna.
- Barnes & Noble** College Bookstores, Inc./Fr. Francis S. Tebbe OFM, Scholarship (2001): awarded to transfer students. Established by Barnes and Noble College Bookstores, Inc.
- Barton** Family Scholarship (1997): awarded to a minority undergraduate and graduate student pursuing teacher education program. Established by Dr. Norene Barton Daly and Mary Margaret Barton Kelley.
- Edith and Virgil **Bastian** Scholarship (2025): awarded to an education or business major. Established by Sandra and George Wetzel.
- Sister Mary Rachel **Bawol**, CSSF, Scholarship (1998). Established by Carol A. and Joseph P. Copland.

- Ruth and Ludger A. **Beauvais** Scholarship (1993): awarded to a student with financial need. Established by Ludger A. Beauvais.
- Harry and Evelyn **Beck** Scholarship (1993): awarded to a student pursuing teacher education program or accounting. Established by Evelyn Beck.
- Rev. Mitchell **Bednarski** Scholarship (1995): awarded to a graduate from Catholic Central High School, Redford Michigan, relocated in July 2005 to nearby Novi, or in absence of a qualifying student, to a Ladywood High School graduate. Established by Rev. Mitchell Bednarski.
- Francis B. and Elizabeth R. **Berkemeier** Scholarship (2004): awarded to a full-time student, regardless of need, from Lumen Christi High School in Jackson, Michigan, or if no such candidate is available, to a graduate from a Catholic high school. Established by Elizabeth R. Berkemeier, Francis X. and Janet G. Berkemeier.
- Christopher **Bisset** Memorial Scholarship (2004): awarded to a criminal justice major. Established by loving family, generous friends, and dedicated special agents, U.S. Department of Education, Office of Inspector General (OIG).
- Sister Mary Crispin **Blaszczyk**, CSSF, and John and Lorene Blasky Scholarship (1994). Established by John and Lorene Blasky.
- Rosalee M. **Bleecker** Scholarship (2006): awarded to nontraditional (age 25 and older), part-time, music major or history major students. Established by Rosalee M. Bleecker.
- Dr. James S. **Bonadeo** Scholarship (1998). Established by Dr. James S. and Earlene Bonadeo.
- Viola R. and Dr. Thomas G. **Bosco** Scholarship (1987): awarded to an African-American student or to a needy student in the nursing/BSN program. Established by Dr. Thomas G. and Viola R. Bosco.
- Eva L. and Lawrence L. **Bourgeois** and Mary Hall Memorial Scholarship (1987). Established by Lawrence L. Bourgeois.
- Brocki/Poniatowski** and Irene and Adam Ponte, DDS, Memorial Scholarship (1988): awarded to a student in the Humanities. Established by Sister Mary Damascene Brocki, CSSF, and Adam Ponte, DDS.
- Elizabeth **Briggs Fisher** Scholarship (2014): Established by the Society of the Sacred Heart/Women's Cultural Collaborative.
- Andrew R. and Sara L. **Brodhun** Scholarship (2008): awarded to a junior or senior level student with a grade point average of 3.0 and higher, in need of financial assistance and pursuing a degree in the College of Arts and Sciences or the College of Education and Human Development. Established by Andrew R. Brodhun.
- John and Marie B. **Bush** Scholarship (2000): awarded to a student enrolled in music or art. Established by Daniel and Rose Kachnowski.
- Rodrigo and Adela **Bustamante** Family Scholarship (2001): awarded to a needy Latino-American student. Established by Rodrigo and Adela Bustamante.
- John J. **Cale** Scholarship (2007): awarded to a needy, full- or part-time student pursuing a major in international business. Established by Mary B. Cale.
- Florence and William **Cameron** Scholarship (1988): awarded to a U.S. resident student with demonstrated need. Established by Florence Cameron.
- John J. **Carlo** Scholarship (1987): awarded to a nursing major. Established by Louis E. Carlo.
- Blessed Solanus **Casey** Scholarship (1995): awarded to a part-time or full-time student in any graduate or undergraduate major in Science or Mathematics. Established by Dr. Mary M. Hunt.
- Virginia **Clementi** Scholarship (1994). Established by Virginia Clementi.
- John D. **Corr** Scholarship (1996). Established by John D. and Dr. Jean Corr.
- Ed P. and Wanda L. **Czapor** Family Scholarship (2004). Established by Ed P. and Wanda L. Czapor.
- Bruno and Emily **Czenkusz** Memorial Scholarship. Established by Beatrice Czenkusz.
- Daoud** Foundation Scholarship (1992). Established by Drs. Tarik and Helen Daoud.
- Daoud** Foundation/Arab American Nurses Association (AANA) Scholarship (2004): awarded to Arab American students pursuing the nursing program at Madonna University. Established by Drs. Tarik and Helen Daoud.
- George **DeDecker** Scholarship (1991). Established by Julia DeDecker.
- Dama Maria **Del Carmen** Montes Scholarship (1993): awarded to a Latino-American student. Established by Dama Maria Del Carmen Montes.
- Elizabeth M. and Earl J. **Demel** Scholarship (1997). Established by Elizabeth M. Demel.
- Shirley Dudek **Demmer** Scholarship (2008): awarded to sociology majors, or in absence of qualifying students, to creative writing majors. Established by William J. Demmer.
- Magdalene and Dominic **Derkins** Scholarship (2002). Established by Stella Derkins.
- Stella and Raymond **Derkins** Scholarship (2002). Established by Stella Derkins.
- DeRoy** Testamentary Foundation Scholarship (1999): awarded to a deaf or hard of hearing student. Established by the DeRoy Testamentary Foundation.
- Charles and Patricia **Derry** Broadcast and Cinema Arts Scholarship (1994): awarded to a sophomore level or higher student with Broadcast and Cinema Arts major and must be an active major currently enrolled in Broadcast and Cinema Arts class(es) at Madonna University. Established by Charles and Patricia Derry.
- Detroit Edison** Foundation Scholarship (1995): awarded to minority students pursuing science, especially for prospective teachers in elementary schools. Established by the Detroit Edison Foundation.
- Kathleen M. (**Dilworth**) **Wozniak** Scholarship (1998): awarded to a nursing major. Established by Joyce A. Dilworth.
- Angelo **DiPonio** Scholarship (1988). Established by the Angelo and Margaret DiPonio Foundation.
- Margaret E. **DiPonio** Criminal Justice Program Scholarship (1997): awarded to a student in criminal justice. Established by the Angelo and Margaret DiPonio Foundation.
- Sister Mary Virgilia **Dragowski**, CSSF, Scholarship (2004): awarded to a financially needy student. Established by Agnes Witkowski.
- Duchene** Foundation/Jerry Abraham Scholarship (2016): awarded to a volleyball player with financial need. Established by the Doris J. and Donald L. Duchene, Sr. Foundation.
- Doris J. and Donald L. **Duchene**, Sr. Scholarship (2021): awarded to full time student athletes. Established by the Doris J. and Donald L. Duchene, Sr. Foundation.
- Patrick and Joan **Duggan** Family Scholarship (2004): awarded to nontraditional adult women returning to school. Established by Hon. Patrick and Dr. Joan Duggan.

- Susan **Edwards** Scholarship (1999): awarded to prospective teachers of developmentally disabled, emotionally impaired and learning-disabled children. Established by Joseph and Ann Edwards.
- **Ehlert** Charitable Fund Scholarship (2025): awarded to adult learners returning to school. Established by Georganne D. Ehlert.
- Dr. Alan E. **Eichman** Scholarship (1999): awarded to a criminal justice major. Established by Meryl Schilling.
- Doris Evelyn **Eichman** Memorial Scholarship (1998): awarded to a student in hospice and palliative studies. Established by Dr. Alan E. Eichman.
- Cecily **Farragher** Scholarship (2003): awarded to students pursuing teacher education. Established by John and Susan McMeel.
- **Felician** Sisters Scholarship (1988): awarded to members of the Felician Community in Our Lady of Hope Province, either candidates or professed sisters, pursuing undergraduate or graduate degrees or programs at Madonna University. Established by Msgr. Vincent J. Horkan.
- Frank and Sophia **Filipek** Scholarship (2007): awarded to student of Polish descent. Established by Frank and Sophia Filipek.
- Emily and Raymond T. **Gapinski** Scholarship (1994). Established by Sr. Mary Janet, CSSF, and Emily and Raymond T. Gapinski.
- Patricia **Gerstner** Scholarship for Women (2011): awarded to a full-time or part-time female student who is older than 25 years. Established by Patricia Gerstner.
- Sister Mary Humilitas **Gerszyn**, CSSF, Scholarship (1989): awarded to a nursing major. Established by the Madonna University Nursing Department.
- Rev. William and Sister Mary Henrietta, CSSF, **Gieranowski** Scholarship (2002). Established by Rev. William Gieranowski.
- Aging Studies Department Scholarship in Honor of Marilyn **Goering** (2008): awarded to a student majoring in gerontology or long-term care administration. Established by the Madonna University Aging Studies Department.
- Hilary L. and Beverly G. **Gross** Scholarship (2000): awarded to members of the Felician Community in Our Lady of Hope Province, either candidates or professed sisters, pursuing undergraduate or graduate degrees or programs at Madonna University. Established by Hilary L. and Beverly F. Gross.
- Kristen H. **Hallerman** Scholarship (1994): awarded to a beginning student in nursing from Plymouth-Canton High School, Plymouth-Salem High School or Garden City High School. Established by Kristen Hallerman and Richard and Annajo Hallerman.
- Mary **Hart** Tribute Scholarship (1999): awarded to a student majoring in social work.
- William Randolph **Hearst** Scholarship (1988): awarded to students in service-oriented degree programs. Established by the William Randolph Hearst Foundation.
- Jeanne M. **Hildebrandt** Memorial Scholarship (1999). Established by Jeanne M. Hildebrandt.
- The Conrad N. **Hilton** Foundation Scholarship in Honor of Sister Mary Francilene Van de Vyver, CSSF (2002): awarded to deaf, hearing impaired, or needy students. Established by the Conrad N. Hilton Foundation.
- Carol **Hofer** and Sr. Janet M. **Stankowski** Scholarship (2020): awarded to students who demonstrate financial need and support the University's mission and values. Established by Carol Hofer and Sr. Janet M. Stankowski.
- Dr. Julianne **Hoff** Memorial Scholarship (1998): awarded to a graduate nursing major. Established by William R. Hoff.
- Jennie **Horowitz** Scholarship (1993): awarded to an African-American full-time student in nursing. Established by Evelyn Beck.
- John and Dorothy **Hutt** Nursing and Education Scholarship (2025): awarded to a nursing or education major. Established by John and Dorothy Hutt.
- Beverly **Hydo** Nursing Scholarship (2021): awarded to a nursing major. Established by Beverly Hydo.
- Dr. Lorraine I. **Jakubielski** Scholarship in memory of William and Lottie Jakubielski (2002). Established by Dr. Lorraine Jakubielski.
- Floyd R. **Kannberg** Scholarship (1994): awarded to a student in hospice and palliative studies or nursing. Established by Frances M. Kannberg.
- Joseph and Angela **Kapuscinski** Scholarship (2013): for the education of members of the Felician sisters of Livonia and other religious orders pursuing a degree program at Madonna University including gerontology, religious studies, hospice, nursing, and other majors.
- Sister Mary Cleopha **Kaptur**, CSSF, Scholarship (1996). Established by Hon. Marcia C. Kaptur.
- Charles and Frances **Kazul** Memorial Scholarship (1990): awarded to a needy student. Established by Sister Mary Nunciata Kazul, CSSF.
- Dr. Robert and Monika **Kimball** Scholarship (1996): awarded to an international student in the United States on an F-1 Visa. Established by Dr. Robert and Monika Kimball.
- Catherine (Cathy **Kleinert**) Roscoe Scholarship (2005): awarded to students in teacher education. Established by Charles and Margaret Collins.
- Rudolf and Evelyn **Kleinert** Scholarship (2002): awarded to a community college graduate. Established by the Kleinert Family and friends.
- **Knight** Foundation, Inc. Scholarship (1989): awarded to deaf or hard-of-hearing students. Established by the Knight Foundation, Inc.
- **Knights** of Columbus/Michigan State Council Scholarship (1989): awarded to prospective teachers of children with learning disabilities. Established by the Knights of Columbus of Michigan.
- Carla L. **Knudsen** Scholarship (1987): awarded to a nursing major. Established by Frank and Joan Knudsen and friends.
- Richard **Koch** Scholarship (1980): awarded to a criminal justice major. Established by Betty Koch.
- Theodore and Eleanor **Konarski** Scholarship (1983). Established by Eleanor Konarski.
- Sister Mary Hugoline, CSSF, Sister Mary Laurenta, CSSF, and Paul and Anna **Konkel** Scholarship (1990): awarded to a graduate of a Catholic high school. Established by Paul Konkel, Francis X. and Janet Berkemeier, and John and Clara Berkemeier.
- Rev. Francis P. **Kozlowski** Scholarship (1993): awarded to a Catholic student. Established by Stella Gutowski.
- Sister Mary Paulette **Krakovski**, CSSF, Scholarship (2001). Established by Mary Anne Barczak.
- L. Pat **Kramek** Family Scholarship (2003): awarded to an undergraduate and/or graduate-level student pursuing teacher education. Established by L. Pat Kramek.

- Nancy F. **Kriegler** Memorial Scholarship (1999): awarded to a student majoring in nursing, hospice and palliative studies, or gerontology. Established by Frank Kriegler.
- Fred and Catherine **Kubiak** Scholarship (2000). Established by Catherine Kubiak.
- Sister Mary Hospicia, CSSF, and Rev. Edward J. **Kubiak** Scholarship (1987). Established by Rev. Edward J. Kubiak.
- Anna and Stanley **Kucharski** Scholarship (1984). Established by Eleanor Konarski.
- Sister Mary Chester **Kucharski**, CSSF, Scholarship (1983). Established by Eleanor Konarski.
- Francis and Anna **Kujawa** Scholarship (1991). Established by Anna Kujawa
- President Emeritus Sr. Rose Marie **Kujawa** Scholarship (2023). Established by Theodore Picano..
- Rev. Zanos Gougoutas, Christopher, and Drs. George and Bess **Kypros** Family Scholarship (2002): awarded to students pursuing an Autism Spectrum Disorders graduate program and to students pursuing Children and Families or Early Childhood Education graduate or undergraduate programs. Established by Drs. George and Bess Kypros.
- Our **Lady** of Refuge Parish Scholarship (1996): awarded to a Catholic student in a service-oriented degree program. Established by Our Lady of Refuge Parish.
- Remie and Norma **Laenen** Scholarship (1990). Established by Remie and Norma Laenen.
- Dr. Bernard and Meta **Landuyt** Scholarship (1987): awarded to a business administration major. Established by Dr. Bernard and Meta Landuyt.
- **Latinos** de Livonia Scholarship (1989): awarded to students of Hispanic heritage. Established by the Latinos de Livonia.
- Donald and Denise **L'Huillier** Scholarship (2006): awarded to student pursuing undergraduate nursing major or criminal justice major. Established by Denise L'Huillier.
- **Lions/Lioness** Club Scholarship (1979): awarded to deaf or hard of hearing students. Established by Lions and Lioness Districts of Michigan.
- **Livonia Goodfellows** Scholarship (2016): Awarded to junior students transferring to Madonna University from a community college in Southeastern Michigan.
- **Livonia** Jaycees Scholarship Fund (1990): awarded to a junior or senior student. Established by the Jaycees of Livonia.
- **Livonia** Symphony Scholarship (1996): awarded to a member of the Livonia Symphony Orchestra pursuing a degree or certificate at Madonna University, or in absence of a qualifying student to a music major. Established by the Livonia Symphony Society, Inc.
- Edward **Lundy** Scholarship (2005). Established by J. Edward Lundy.
- William A. and Dr. Mary A. **Lyons** Family Scholarship (2001). Established by Dr. Mary A. Lyons.
- John and Mary **MacKenzie** Memorial Scholarship (1994): awarded to a nursing major. Established by Thomas B. and Jacquelyn Murphy.
- Alycia C. **Madgwick** Memorial Scholarship (1998): awarded to a qualifying student from Franklin High School in Livonia, Michigan. Established by Dr. William T. and Bridget Phillips.
- Saviour, Iris, Carmen and John **Mangion** Scholarship (1994). Established by Sam and Iris Mangion.
- Julie **Martin** Memorial Scholarship for Academic and Athletic Excellence (2006). Established by the Athletic Department, the College of Arts and Sciences, family and friends.
- Dr. Don and Joyce **Massey** Scholarship (1990). Established by Dr. Don Massey.
- Edward H. **McNamara** Scholarship (2003): awarded to a resident of Wayne County, sophomore or higher status, with a 3.0 or higher grade point, full-time student, and with a demonstrated need for financial assistance. Established by the McNamara Scholarship Fund.
- Lucille **McNamara** Scholarship (1995): awarded to eligible deaf or hard of hearing students or future teachers of deaf or hard of hearing persons. Established by Hon. Edward H. and Lucille McNamara.
- Michael F. **McManus** Scholarship (2013): awarded to a student enrolled full time in a business related major. Established by the Michael F. McManus Foundation.
- **Mickel**-Magrames-Mickel Scholarship (2002): awarded to a student in the criminal justice program. Established by Charles E. and Georgia Stahl.
- Msgr. Stanley E. **Milewski** Scholarship (2003). Established by Msgr. Stanley E. Milewski.
- Robert A. and Stephanie L. **Miller** Scholarship. Established by Stephanie L. Miller.
- Leona D. **Miloch** Scholarship in Memory of Louis and Lillian Miloch (2005). Established by Leona D. Miloch.
- Jessica Marie **Mitsch** Scholarship (2006): awarded to second degree, undergraduate students in nursing. Established by John and Mary Mitsch and Family.
- Thomas B. and Jacquelyn **Murphy** Scholarship (2006): awarded to incoming freshmen with demonstrated financial need and scoring in the top ten percentile on the SAT, ACT, or other college entrance exam. Established by the T. B. Murphy Foundation Charitable Trust.
- Anthony **Nardi** and Joan Kaminski Nardi Scholarship (2011) in Memory of Mary Noreen Kaminski: awarded to a student pursuing a degree in the College of Arts and Sciences. Established by M. Joan Nardi.
- Kathleen A. **Needham** Scholarship (2004): awarded to a student pursuing certificate or degree in aging studies. Established by the Madonna University Department of Aging Studies.
- Joseph and Andrea **Nodge** Family Scholarship (2001): awarded to a student in teacher education. Established by Joseph and Andrea Nodge.
- Madonna University **Nursing** Alumni Scholarship (2021): awarded to a junior or senior status nursing major. Established by Pauline A. Kulwicki.
- Edward W. **Nycz** Memorial Scholarship (1994). Established by Edward W. Nycz.
- Henry and Josephine **Obloj** Scholarship (1998). Established by Henry Obloj.
- Dr. Leo and Dr. Bernice (Ostrowski) **Obloy** Scholarship (1991). Established by Drs. Leo and Bernice Obloy.
- Victor and Pauline **Olyarnyk** Scholarship (2025): awarded to a nursing student from Michigan. Established by Peggy A. Raymond.
- Warren and Genevieve **Orlick** Scholarship (1992). Established by the Professional Golfers' Association of America-Michigan Section.
- Sister Mary Berarda **Osinski**, CSSF, Scholarship (1983): awarded to a children and families major. Established by Dr. Thomas S. Monaghan.
- **Outer Drive-Vencor** Hospital Auxiliary Scholarship (1992): awarded to a sophomore, junior or senior level student enrolled in a health-related program. Established by the Outer Drive-Vencor Hospital Auxiliary.

- Walter and Lillian **Pachota** Family Scholarship (1996): awarded to students with a 3.0 grade point average. Established by Walter and Lillian Pachota.
- Alfred R. **Pawlak** Scholarship (2005): awarded to criminal justice students or Polish descendants. Established by Paul and Renne (Pawlak) Fershee.
- Sophie A. and Thomas F. **Pluto** Memorial Scholarship (2008): awarded to full-time, undergraduate-level student pursuing teacher education. Established by Elizabeth J. Pluto.
- Elizabeth Jane **Pluto** Scholarship (2024): awarded to students majoring in elementary education. Established by Elizabeth Jane Pluto.
- World Heritage Foundation-**Prechter** Fund Scholarship (1999). Established by the World Heritage Foundation-Prechter Fund, and Heinz and Waltraud Prechter.
- The **Privaloff** Family Hospice Education Fund (2012): awarded to a student pursuing a degree in hospice and palliative studies. Established by Kathleen and G. Michael Loewe.
- Catherine, Agnes, and Sister Grace Marie **Prybys**, CSSF, Scholarship (1990). Established by Sister Grace Marie Prybys, CSSF, and the Prybys Family.
- Hon. Carl D. and Peggy **Pursell** Scholarship (1993): awarded to a student in business, nursing, or teacher education. Established by Hon. Carl D. and Peggy Pursell.
- Ramser-Morgan** Scholarship (2012): Awarded to a female student with financial need enrolled in the business program. Established by The Ramser-Morgan Foundation.
- Redford** High School Alumni Association/Edward H. McNamara Scholarship (2005): awarded to graduates of Redford High School, Detroit, Michigan. In case of closure of the school, scholarship may be awarded to a minority student with financial need. Established by the Redford High School Alumni Association and Edward H. McNamara.
- Renkowski-Ciak** Scholarship (2006): awarded to a community college transfer student pursuing a science major. Established by Anthony and Lorraine Ciak.
- Mary Pitrone **Richards** Scholarship (1978): awarded to a junior or senior level student in nursing/BSN program. Established by Jack Richards.
- L. Peter and Eugenia **Rifers** Scholarship (1997). Established by Eugenia Rifers.
- Edwin S. and Barbara **Roberts** Family Scholarship (2000): awarded to a deaf or hard of hearing student or a student pursuing sign language studies (SLS). Established by Barbara Roberts.
- Mitchell J. **Romanowski** Scholarship (1996): awarded to a student in teacher education. Established by Mitchell J. Romanowski.
- Rozek** Family Scholarship (1989): awarded to a student of Hispanic heritage. Established by Sister Mary Martinez Rozek, CSSF, and the Rozek Family.
- Sister Mary Bridget **Roznowski**, CSSF, Scholarship (1987): awarded to a family and consumer science major. Established by Sister Mary Bridget Roznowski, CSSF.
- St. Jude** Scholarship (2015). Established by John J. Jr. and Nancy O'Connell.
- St. Lawrence Mission** Scholarship (2000): awarded to a student demonstrating financial need and pursuing a degree from Madonna University. Established by Lawrence Sutherland.
- Sage** Foundation Scholarship (1988). Established by the Sage Foundation.
- Ramandeep Kaur **Sandhu** Memorial Scholarship (2015): awarded to Sikh women, either in undergraduate study or graduate study, that are pursuing a degree in nursing or elementary education. The awardee is required to be enrolled full time. Established by Chain Singh Sandhu, CEO, NYX.
- Florence E. **Schaldenbrand** Memorial Scholarship (2024): awarded to an incoming freshman from Detroit Public Schools pursuing a science related degree. Established by Donna Rossini, Mary Schaldenbrand and Peter Schaldenbrand.
- Mary and Thomas **Shields** Scholarship (1995): awarded to a student pursuing a degree in hospice and palliative studies or nursing. Established by Donna Berry and Dennis and Ken Shields.
- Stephen and Pelagia Smigielski and George A. **Ski** Scholarship (2016): for students with physical disabilities, in financial need, pursuing an undergraduate or graduate degree on a full or part time basis. Established by George A. Ski.
- Rev. Raymond S. **Skoney** Scholarship (1995). Established by Rev. Raymond S. Skoney.
- Marilee **Smith** Scholarship (1995): awarded to a student majoring in nursing, Licensed Practical Nurse preferred. Established by William H. Smith.
- Shirley M. **Smith** Scholarship (1997). Established by Shirley M. Smith.
- Marie C. **Sochalski** Memorial Scholarship (1995): awarded to a nursing major. Established by Marie C. Sochalski.
- Anthony and Agatha **Sryniawski** Family Scholarship (1990). Established by Helen A. and Joseph Sryniawski.
- Frank A. **Sryniawski** Scholarship (1990). Established by Helen A. and Joseph Sryniawski.
- Helen A. **Sryniawski** Scholarship (2001): awarded to a student in teacher education. Established by Helen A. Sryniawski.
- Joseph **Sryniawski** Scholarship (1991): awarded to a Catholic student. Established by Helen A. Sryniawski.
- Sister Mary Immaculata **Sryniawski**, CSSF, Scholarship (1989): awarded to a graduate of a Catholic high school. Established by Helen A. and Joseph Sryniawski.
- Stephanie **Sryniawski** Scholarship (2002). Established by Elizabeth V. Wasik.
- Genevieve A. and Thaddeus A. **Stankowski** Family Scholarship (2006): awarded to needy undergraduate students pursuing a major related to social justice service areas. Established by Sister Janet M. Stankowski, O.P., and Lorraine McGuinness.
- Armand and Lillian **Stefani** Scholarship (1998): awarded to a student with financial need in the School of Business. Established by William Stefani and Anne Schuster.
- Edward C. and Hazel L. **Stephenson** Fund Scholarship (2004). Established by the Edward C. and Hazel L. Stephenson Foundation.
- Madonna University **Study Abroad** Scholarship (2026): awarded to students planning on studying abroad. First preference will be given to students studying abroad for a semester, for academic credit and who display financial need according to their FAFSA report. If no students exist meeting that criteria, available funds will be awarded to other Madonna University students studying abroad. Established by DJ and Shannon Boyd.
- Frank S. and Anne **Suchyta** Family Scholarship (2004): awarded to a Catholic student of Polish ancestry pursuing a

- pre-med course of study at Madonna University. Established by Frank S. and Anne Suchyta.
- Louise and Joseph, Sr., **Suchyta** Family Scholarship (2001). Established by Sister Mary Danatha Suchyta, CSSF, family, and friends.
 - Dr. Theophil J. and Barbara **Sutton** Family Scholarship (2000). Established by Dr. Theophil J. and Barbara Sutton.
 - Frank J. and Josephine **Svoboda** Scholarship (1962): awarded to a student in art or journalism. Established by Robert L. Svoboda in memory of his parents.
 - Honorable Michael J. **Talbot** Scholarship (2022): awarded to students with financial need in the nursing, gerontology or aging studies program. Established by the Honorable Michael J. Talbot.
 - Nancy E. and Roswell F. **Tanger** Scholarship (1997): awarded to a student in teacher education. Established by Nancy E. and Roswell F. Tanger.
 - Dr. Susan S. **Thoms**, MD, Scholarship (1999). Established by Rev. James Hayes.
 - Emmet E. and Frances **Tracy** Scholarship (1986). Established by Emmet E. and Frances Tracy.
 - Sister Mary Francilene **Van de Vyver**, CSSF, Scholarship (1992): awarded to music majors and to international students. Established by Sister Mary Francilene Van de Vyver, CSSF, and Hector and Irene Van de Vyver.
 - Peter A. and Ruth **Ventura** Family Scholarship (1991). Established by Peter A. and Ruth Ventura.
 - Doreen **Vivyan** Hospice and Palliative Studies Scholarship (2005): awarded to hospice undergraduate or graduate students, part-time or full-time, who maintain a minimum 3.25 GPA and demonstrate financial need. Established by Dr. Kelly Rhoades, Madonna University Hospice and Palliative Studies Department, family, and friends.
 - Michael B. **Washburn** Memorial Scholarship (1997). Established by Debra Ronayne.
 - Elizabeth V. and Theophil **Wasik** Scholarship (2002). Established by Elizabeth V. Wasik.
 - Theodore P. and Genevieve R. **Wasztyl** Family Scholarship (1998): awarded to a student age fifty and over. Established by Theodore P. Wasztyl.
 - A. Thomas and Mary **Watkowski** Family Scholarship (2001): awarded to eligible student(s) from Our Lady of Mount Carmel High School or Parish in Wyandotte, Michigan, or from any Catholic Parish in the Downriver area; otherwise, the choice should be at the discretion of the Madonna University Financial Aid Department. Established by A. Thomas Watkowski.
 - Lucille A. **Weber** Memorial Scholarship (1989): awarded to an aging studies major. Established by Charles and Patricia Doemer.
 - Olga and James **Wetzel** Scholarship (2018): Awarded to a student enrolled full-time in a business-related major. Established by George and Sandra Wetzel.
 - Norman and Andrea (Ligeski) **Whipple** Endowment Scholarship in Memory of Parents, Ed and Estelle Browarski: awarded to students of Polish descent. Established by Norman and Andrea Whipple.
 - David M. **Whitney** Fund Scholarship (1996). Established by the David M. Whitney Foundation.
 - Pamela G. **Witte** and Helen Wojtaszek Scholarship (2008): awarded to student majoring in social work, primarily for tuition; if funds are available, for purchase of books or travel abroad expenses for social work endeavors. Established by Pamela G. Witte.

- Henry M. and Wanda (Zavislak) **Wojcik** Scholarship (2001): awarded to students in the nursing program, preferably in hospice and palliative studies and pediatric nursing. Established by Henry M. Wojcik.
- Rev. Ferdinand A. **Wolber** Scholarship (2009). Established by Rev. Ferdinand A. Wolber.
- **Woodworth and Cox** Alumni Scholarship Award (2011): awarded to a student athlete who plays basketball for the Madonna University Men's Basketball Team. Established by James Woodworth and The Law Offices of Aaron Cox.
- Josephine Barski and Alexander **Wowk** Scholarship (1994): awarded to a student in nursing or hospice and palliative studies. Established by Edmund Barski and Joan Wowk.
- John and Emily **Wysolmierski** Scholarship (1988). Established by Loraine Mierski.
- Rev. Francis J. **Zdrowski** Scholarship (1993). Established by Rev. Francis J. Zdrowski.
- Sister Mary Angelis, CSSF, and George and Caroline **Zgoda** Family Scholarship (1980). Established by Sister Mary Angelis Zgoda, CSSF.

ANNUAL FUNDED SCHOLARSHIPS

- **American Association of University Women**/Plymouth-Canton Branch (2000): awarded to a mature woman from the Plymouth-Canton area with financial need.
- Bettie Archer-Johnson/**American Business Women's Association** Scholarship (2005). Established by the American Business Women's Association–Novi Oaks Charter Chapter.
- **Briggs-Fisher** Foundation Scholarship (2007).
- Gladys **Collins** Hospice and Palliative Studies Scholarship (1989).
- Theresa **Higgins** Roose (2014): awarded to a full time or part time student in Religious Studies.
- Kathleen M. **Lenaghan** Scholarship for the Arts (2014). Established by Arthur R. Lenaghan for art and/or music majors.
- **Livonia Civic Chorus** Scholarship in Memory of Sister Mary Francilene Van de Vyver, CSSF (2002): awarded to a full or part-time student in music preparing for a career in the vocal arts at Madonna University and who has not previously been a recipient of it; featured at LCC's Christmas or spring concerts. Established by the Livonia Civic Chorus.
- **Livonia Rotary Club** Scholarship (1989).
- **Michigan Colleges Foundation Scholarship Programs** funded by the following corporations and foundations: Mary Maybury Berkery Memorial Trust, Building Industry Association, Comerica Charitable Foundation, The DeRoy Testamentary Foundation, Earhart Foundation, Gordon Food Service, Health Alliance Plan (HAP), JSJ Corporation, Liberty Scholarship Program, Eugene A. Miller Scholarship Program, Rose Memorial Scholarship Program, United Parcel Service (UPS).
- **TRIO** Student Scholarship (1997).

OTHER

- Madonna University **Athletic Grant**: awarded to full-time students with a minimum cumulative GPA of 2.5 and demonstrated athletic ability.
- **Financial Award for Travel and Education (F.A.T.E.)**: awarded to admitted, undergraduate students enrolled half-time or

more, who are in good standing and who are participating in an approved overseas or exchange program.

- **Madonna University Grant:** awarded to students on a financial need basis.
- **Senior Citizen Tuition Waivers** are available to individuals 65 years of age or older on the first day of the semester. Tuition is charged at one-half the regular rate. Applies to campus tuition ONLY (online campus does not apply). Details available from the Student Financial Services Office.
- **TRIO Grant Aid:** awarded to TRIO Program students with financial need.

Supplemental Assistance Programs

A variety of funds are also available for students who are in specific situations. Some of the major sources of such funds are:

- **VETERANS EDUCATIONAL BENEFITS:** The Department of Veterans Affairs administers a number of educational programs for veterans, servicepersons, and eligible dependents. Contact the Transitions Center or the Department of Veterans Affairs for more information.
- **MICHIGAN REHABILITATION SERVICES (MRS):** Michigan Rehabilitation Services assists eligible Michigan citizens who require vocational rehabilitation services in order to work. For additional information visit the web site at: www.michigan.gov/mrs.
- **EMPLOYEE TUITION REIMBURSEMENT PROGRAM:** Many employers will pay tuition for their employees who successfully complete course work at Madonna University. For more details, check with the Human Resources Office at your place of employment.

More Information

More detailed information on all financial aid programs is available from the Madonna University Financial Aid Office (734) 432-5663. All students are encouraged to contact the Financial Aid Office for further information and assistance in applying for financial aid.

Technology Services

Technology Services

Madonna University places high priority on information technology. Classrooms, seminar rooms, lecture halls, and laboratories are equipped for multimedia display. Wi-Fi (wireless access) is available throughout campus. Through the Madonna University portal and website, www.madonna.edu, students can access information and online services such as online registration, student billing, grades, and Blackboard learning management software.

IT Help Desk

The IT Help Desk, housed in the Room 1724 of the Administration Building on the Livonia campus, provides one point of contact for technology assistance. Madonna University students may email their technology questions to helpdesk@madonna.edu or call (734)-432-5800. IT Help Desk assistance and tutorials are also available under the Student Help tab in MY Portal through the Madonna University website. User Services at the IT Help Desk assists faculty and students throughout the University in the effective use of media for teaching and learning, through technology learning support and assistance from media specialists in the preparation of media for presentation or instruction.

Blackboard

Blackboard is the online learning management system used at Madonna University. A free workshop, "How to Thrive in an Online Course", is offered at the beginning of every semester for students in online courses. The workshop schedule is located under the "Student Help" tab in **MY Portal**.

Student Email

Information regarding Registration, Financial Aid, Student Accounts, and Student Life is sent to you through your student email account. You are responsible for checking it regularly. Your email user name and default password are provided in the same letter you received that contained your student email credentials and password for MY Portal and Blackboard. If you cannot log in to your account, please contact helpdesk@madonna.edu to reset your password.

All members of the Madonna University community are expected to comply with established guidelines and procedures which define the proper use of electronic communications.

Email Responsibilities

- **Appropriate use of MU email:** Use of University email is to be consistent with the University mission statement and foundational values. Illegal use, malicious use, and commercial use are not acceptable. For fuller statements of acceptable use of email, see the Madonna University **Student Handbook** on the University website.
- **Access to MU email:** Students who do not have access to a computer or the Internet from home are encouraged to use computers available in the Madonna library computer labs or in other community access locations such as their local library.
- **For assistance,** visit the IT Help Desk in Room 1724, call (734)-432-5800, or email helpdesk@madonna.edu. Please refer to the Madonna University website or MY Portal for additional information.

Email Abuse

Abuse of email usage policies will result in loss or restriction of email account privileges. Loss or restriction of email accounts can be appealed to the Vice President for Student Affairs and Mission Integration.

MYPortal

The Madonna University MYPortal is a website that individualizes information and services to the specific needs of the person visiting the site.

To access MYPortal, navigate to the home page of the Madonna University website: www.madonna.edu. Click on the MYPORTAL icon in the upper-right corner. Click the login button in the upper-right corner of the My Portal page. Access My Portal resources with your MU email credentials.

To learn more about navigating MYPortal, click on the appropriate Frequently Asked Questions (FAQ) link found at the bottom of each MYPortal page, or contact the Help Desk at helpdesk@madonna.edu.

All Madonna University students are given an official email account, @my.madonna.edu. The University authorizes the use of this email for official communication among students, staff, faculty, and administrators. The university directs all official email communication to this address.

Your First Year at Madonna University

Student experiencing their first year of studies at Madonna University are in a unique time of transition. The Office of First-Year Experience and the Center for Students in Transition oversee a variety of programs to help students navigate this experience successfully, make new friendships, form relationships with faculty and staff members, and make the adjustment to a new community and environment.

The Office of First-Year Experience

This office serves traditional-age students (under age 24) who are coming to the University directly from high school, home school, and early college programs. The overall goal of the First-Year Experience (FYE) program is to help learners make a healthy embrace of their new identity as full-time college students and assist them in assuming responsibility for themselves and their education. The Office of First-Year Experience exists to support students in these endeavors through curricular, co-curricular, and extra-curricular programming, and is an educational resource available for students and their families.

The First-Year Experience program includes the following components:

New Student Orientation (NSO): All new students are required to attend an orientation. A "Must Attend Orientation" hold is put on all student records until the student has completed the orientation requirement.

UNV 1020, Transition to Higher Education: The two-semester-hour course is required of all incoming students who are less than 24 years of age and have fewer than 13 college transfer hours (excluding Advanced Placement, dual enrollment, International Baccalaureate, and early college credits). It is designed to address transition issues that First-Year students face when entering the University; introduce them to thought-provoking, challenging, and interesting ideas to enhance their critical thinking, research, writing, and presentation skills; engage them in a community of learners; and incorporate a service-learning experience that fulfills the University's mission of service. (**NOTE:** Students who complete a semester of Intensive English as a Second Language are excused from this requirement, because of the material included in the Intensive.)

Collaborative Studies: Incoming traditional-age students are encouraged to participate in the Collaborative Studies program, which typically links two courses in the MU Core with a section of UNV 1020. The faculty members create learning experiences in which students work collaboratively, cross the boundaries of different academic disciplines, and engage in discussion and conversation about relevant ideas and issues. The linked courses also integrate reflection on the service-learning project conducted in UNV 1020.

Philosophy Statement of the First-Year Experience at Madonna University

Madonna University believes that the first year of university study calls for a focused program of study, advisement, and orientation, based on the following philosophical perspectives:

We believe that learning is social and is best promoted and supported by a community of learners. To this end, the University requires first-year-of-college students to participate in the Collaborative Studies Program, a curriculum that links first-year courses to create a community of learners

We believe that learning is developmental, that is, that First-Year students are at individual levels of maturation and intellectual, social, and personal development. As educators, the faculty is committed to understanding where students are when they come to us, accepting and valuing them as persons, and identifying strategies for fostering their development.

We believe that learning is holistic and we strive to fulfill our mission of intellectual, spiritual, and personal development. To this end, the Collaborative Studies Program promotes interdisciplinary approaches to learning and problem solving so that students recognize the interconnectedness of knowledge and human experience.

We believe that our educational practice should be learner-centered. This implies that students need to be taught to take responsibility for their learning in order to promote the ideal of life-long learning. One aspect of this goal relates to the component of UNV 1020, Transition to Higher Education, that familiarizes students with the variety of academic support services available to them as Madonna University students and encourages them to use these services when they experience academic difficulty.

We believe that education at Madonna University should promote the ideal of service to our communities, particularly to those in the global community who are less fortunate. This is a reflection of the University's commitment to Catholic teachings on social justice and to the ideals of St. Francis of Assisi. To this end, the University requires all students in UNV 1020 to participate in a service-learning experience.

We believe that students benefit from understanding the history, traditions, and foundational values of the university they attend. Through the continuum of admissions, orientation, pre-enrollment, first semester, and second semester, the University has designed intentional strategies for communicating these ideals to first-year students.

Student Affairs and Services

Madonna University students should become acquainted with the individual offices providing an array of services to support their success in University life.

The University recognizes that a quality higher education experience is not limited to academic opportunities alone. Diverse and stimulating extracurricular activities promote individual growth and interest. Extensive support services assure that all Madonna University students have opportunities to be successful in their intellectual, spiritual, and personal growth.

The following opportunities exist for all students regardless of age, gender, national origin, religion, or disability.

Title IX

The University's policy on Title IX is located on the Madonna website: <https://www.madonna.edu/resources/campus-safety/title-ix/>. The Title IX Coordinator for Madonna University is Jesus Hernandez.

Office of Student Advising & Success

The purpose of the Office of Student Advising & Success is to assist new, transfer, and current students with academic life. Students are assigned support staff and faculty based on their chosen path of study. Every student is first assigned a Success Coach based on the college that houses the student's chosen path of study. Students are also be assigned a faculty advisor—this can happen at the point of admission or later in the student's college career, again, depending on the chosen path of study.

Success Coaches are committed to your academic success and can assist or reaffirm your selection of major. Success Coaches may help you with exploring and declaring majors; help with course selection and scheduling; answer questions regarding university requirements, policies, and procedures; and put you in touch with helpful university resources.

In addition, a Success Coach can: recommend opportunities for personal growth and academic development; make referrals to community and campus resources; support students when they encounter both academic and non-academic challenges; discuss alternatives if students have doubts about their initial choice of major; and and/or provide students with career-related information.

In addition to their academic advisors, students have access to counselors who assist in promoting personal growth and development and who aid them in times of stress and need. Students interested in these services should see the Student Life section of this Catalog.

Athletics

Madonna University has sponsored intercollegiate athletics since 1987, and its teams now include baseball, men's and women's basketball, men's and women's bowling, men's and women's cross country, cheerleading, competitive dance, football, men's and women's golf, men's and women's lacrosse, men's and women's soccer, softball, men's and women's indoor and outdoor track and field, and women's

volleyball. The school is a member of the National Association of Intercollegiate Athletics (NAIA) and participates in the Wolverine-Hoosier Athletic Conference (WHAC), the United States Bowling Congress (USBC), and the Mid-States Football Conference (MSFA).

Madonna athletic teams have built strong programs and compete favorably at a national level in nearly all sports. In recent years, the athletics program has seen unprecedented success highlighted by a national championship in women's cross country in 2019, and men's track and field in 2021.

Madonna's athletic facilities include the Livonia campus Activities Center, the Alliance Catholic Credit Union Arena (ACCU Arena), located at the Performing Arts, Athletic and Academic Center (PAAAC), where basketball and volleyball are played, as well as the Madonna Athletics Complex, which is home to Ilitch Ballpark (baseball), University Field (softball), and a synthetic turf lacrosse/soccer field. In addition, the golf teams call Northville Hills Golf Club home, and cross-country practices at nearby Cass Benton Park.

Annually, multiple student-athletes earn academic honors at the conference and national level. Qualified student-athletes are also eligible for athletic grants.

More information on Madonna University athletics may be found at www.mucrusaders.com.

Accessibility Services

The Office of Accessibility Services, Suite 1303, creates an accessible, positive learning environment for all students. The Accessibility Services staff assists students with disabilities in participating in their university experience fully. To ensure a holistic approach, Accessibility Services connects the student with the faculty, staff, and administration. Students with documented disabilities are encouraged to contact this office for support services.

The Office of Accessibility Services and the student engage in an interactive process to determine personalized accommodations to address academic barriers or other barriers to access. Common accommodations may include the following (Inexhaustive list):

- Alternative testing accommodations
- American Sign Language (ASL) interpreting
- Audio/video lecture recording
- Captioning
- E-text materials
- Exam reader
- Extended testing/assignment time
- Housing Accommodations
- In-class notetaking

While students are ultimately responsible for their progress, their Accessibility Services team supports them on their path to success.

Campus Ministry

Campus Ministry at Madonna University, with an office in Room 1115 in the Academic Building, is an important religious ministry dedicated to the service of the individual and the total university community. Campus Ministry seeks to encourage the practical application of Christian moral principles through student participation.

Among the activities sponsored by Campus Ministry are: weekday and Sunday evening celebrations of the Eucharist in the University Chapel during the academic year; small group meetings; retreats; and service opportunities. Email

campusministry@madonna.edu or stop in Room 1115 to inquire further about campus ministry activities. Persons of any faith tradition are welcome to participate.

The University Chapel is located on the ground floor of the University Center in Livonia. An ecumenical prayer room, Room 1211, in the Academic Building, and an interfaith prayer room, also located in the Academic Building in Room 1209, are other areas on campus where students can spend time in quiet reflection.

Career Development

The Office of Career Development, located in the Administration Building, Room 1108, offers programs and services that support students and graduates who are initiating and implementing their career plans. The office is dedicated to supporting students' employability and exploring post-degree education options. The office follows the professional practice standards of the National Association of Colleges and Employers (NACE).

Career Development assists students seeking jobs, internship experiences, and graduate school admission; provides opportunities to network with professionals; holds workshops on a variety of career development topics; offers career advising; and critiques résumés.

Career Development partners with Handshake, a powerful career management platform, which enables employers to share job opportunities and connect with students. Students can join students and alumni from over 700 universities using Handshake to find amazing jobs.

For more information, students should review the Career Development portal page, which features internship information, professional development articles, links to job search engines, and on-campus employment information.

Center for Personalized Instruction

The Center for Personalized Instruction (CPI), located in the University Library in the Administration Building on Madonna University's Livonia campus, is a student-focused office where resources are readily accessible and student learning is enhanced through individualized academic support.

Tutoring

CPI offers tutoring for Madonna University undergraduate students in a variety of courses each semester at no cost. Tutoring involves a one-hour weekly session by appointment with a tutor who excels in a specific area of study. CPI employs tutors who are specially trained to help students master course content while improving study skills. Students can schedule an appointment through CPI's website or on the student portal.

Supplemental Instruction

While one-on-one tutoring is available, CPI also coordinates the Supplemental Instruction (SI) program, which provides free peer-led small group study sessions on a regular basis for students enrolled in select courses. Sessions are led by students who have previously mastered the course content. Students, along with their SI leaders, work together in reviewing notes, readings, and strategizing methods to better understand course content.

Success Strategy Workshops

During the fall and winter semesters CPI presents success strategy workshops focused on topics that promote the intellectual and personal growth of students. Each workshop is designed to provide information, methods, and strategies to help students succeed. All Madonna University students, staff,

and faculty are invited to attend at no cost. Workshop topics include, but are not limited to, the following:

- Time management
- Career exploration
- Graduate school preparation
- Study abroad exploration

TRIO Student Support Services

For more than 40 years, the Center for Personalized Instruction has also been home to the **TRIO Student Support Services** program, a federally grant-funded program designed to increase the college retention and graduation rates of 170 students each year. Eligible participants must be enrolled at Madonna University, pursuing a bachelor's degree, and meet at least one of the following criteria:

- Meets federal income guidelines
- Be a first-generation college student
- Have a documented disability

TRIO provides a wide range of services to support students both personally and academically, including but are not limited to:

- Resource book check-outs
- Laptop check-outs
- Free online 24/7 tutoring
- Mentoring
- Academic Coaching
- Financial literacy programs and events
- Supplemental grant aid & room scholarships
- Chi Alpha Epsilon – TRIO Honor Society
- Opportunity for paid leadership positions: mentor, academic coach, or tutor

If you are interested in becoming a participant, please submit an application at <https://www.madonna.edu/trio> or visit us inside the University Library.

Food Services

In Livonia, the newly-renovated campus dining hall in the upper level of the University Center adjacent to the Residence Hall serves a variety of breakfast, lunch, and dinner options. The Cafeteria is open to the entire Madonna Community; students in residence and commuters, faculty, staff, and guests to the University. Non-residents have a wide selections of meal purchase options. Residents must elect a meal plan, opting for 10, 14, or 19 meals per week (the plan is effective for the full semester). No refunds are available on the board fee (a result of contractual agreements between the University and the contracted food service).

Occasional/weekend absences are likewise non-refundable.

In complement to the dining hall at the Livonia campus is the Take 5 located in the Take 5 Lounge, generally open only when classes are in session in the Fall and Winter semesters. Take 5, on the ground level of the Administration Building, features made to order grill items, simply-to-go, gourmet coffee, and more. Because of attendance fluctuations, hours are subject to change near major holidays or at the start or end of each semester. Advance posting is made of any changes.

Counseling and Wellness

Confidential individual counseling is available for educational, career, social, or personal concerns through the Ulliance Student Assistance Program (SAP). Counseling services include face-to-face, virtual, or phone sessions with a licensed counselor. Students can also choose coaching services,

couples and family counseling, or crisis support. Ulliance Life Advisor Consultants are available free of charge 24/7/365 at 855-774-4700 or Studentlifeadvisor.com. Please contact the Office of Counseling and Wellness, Suite 1303, counseling@madonna.edu, for additional assistance.

Health Services

Health services are available at Trinity Hospital, which is adjacent to the University at Five Mile and Levan Roads. Students are responsible for all medical bill incurred because of sickness or injury on or off campus.

International Students Office

The International Students Office (ISO, Room 1205), strives to provide quality services to international students, including information on the international admission process, USCIS regulations related to F-1 international students, F-1 student USCIS related benefits, SEVIS records, international orientation and academic advising, and retention. International students are always welcome to contact the ISO to seek assistance.

Library Services

Madonna University Library advances the University mission by supporting the research needs and enhancing the information literacy skill of students, faculty, and staff. To achieve these goals, the Library provides quality resources, assistance, and instruction.

- Librarians offer expert assistance at the reference desk, by phone, 24/7/365 Chat, or email; and by appointment in private search consultations, in either a virtual or face-to-face setting. Classes and workshops ensure that students access, evaluate, and use information effectively and ethically in the research process.
- More than 200,000 print and electronic books, multimedia resources, and over 125 subscription databases that offer 24/7 access to 58,000+ online full-text journals.
- Reciprocal borrowing agreements with nearby colleges and universities and participation in the Southeastern Michigan League of Libraries INFOPASS program, enable students to take advantage of the extensive research resources in the Detroit-Ann Arbor area.
- Interlibrary loan and document delivery services further extend the availability of library materials.
- The library offers wireless access, quiet study areas, and rooms for collaborative work.
- The library also houses the University Archives.

Access to library resources is available on the library website, <http://library.madonna.edu>, including access the 24/7/365 Chat-with-a-Librarian service. This service provides Madonna students, staff, and faculty with uninterrupted access to a librarian at all times, even when the physical library is closed.

To borrow items, patrons provide a valid, current Madonna OneCard ID.

Summer semester, intersession, and holiday hours vary. They are posted in advance at the library and on our library web page. The library can be reached at (734)-432-5703.

Performing Arts

Madonna University provides unique co-curricular opportunities for students to participate in the Performing Arts. These programs allow both new and current students to be introduced to the performance experience, or further develop their artistic interests in a non-competitive, yet professional environment.

All students who actively participate and maintain full-time academic status are eligible for a Performing Arts scholarship

of \$3000 per academic year. These funds are awarded for membership in one of the Performing Arts ensembles on campus, including the Chorale, Lyric Theatre, Pep Band, Jazz Ensemble, and String Ensemble.

For more information, visit madonna.edu/performingarts, or contact perform@madonna.edu.

Residence Life

Madonna University maintains multiple residence halls at the Livonia campus, and both room and board (a meal plan) are required as part of the residential contract. Admitted students may apply for housing by first submitting a residence hall student deposit through Student Financial Services and then submitting a housing application/contract through the Residence Life website (on the Madonna University website, select On-Campus Experience, and then Living on Campus). For more information, call (734)-432-5383.

Student Clubs and Organizations

Madonna University students have the opportunity to enhance and explore their interests by becoming members of various campus organizations. Organizations in areas of professional study are often affiliated with local, state, and national professional associations. This allows students exposure to current professional practice in their chosen field of study.

The viability of any student organization depends on student interest and involvement. Faculty and staff advisors contribute to the vitality of the organization by active engagement and providing guidance to the members of the organization.

Madonna University also offers opportunities for student involvement in service activities. Community service activities include, Right to Life, Gleaners Community Food Bank, MU Helping Families at Christmas, Campus Ministry and Franciscan Life, service at soup kitchens, and other volunteer opportunities in the community. These activities are reflective of the Franciscan values promoted at Madonna University.

Membership in the various organizations offers students an opportunity to clarify values and enhance community leadership and team building skills outside the classroom. Students should visit or contact the Office of Student Life, Room 1411, for an up-to-date listing of the over 40 clubs and organizations they can join.

Student Honor Societies

Madonna University also offers a number of organizations which recognize scholastic and academic achievement within a variety of departments and programs. These honor societies include:

Achievement Honor Society: Chi Alpha Epsilon

First-Year and Second Year Students:

National Society of Collegiate Scholars

Business Honor Society: Delta Mu Delta

Education Honor Society: Kappa Delta Pi

Gerontology (Aging Studies) Honor Society:

Sigma Phi Omega

History Honor Society: Phi Alpha Theta

National Catholic Honor Society: Kappa Gamma Pi

Nursing Honor Society: Sigma Theta Tau International

Paralegal Honor Society: Lambda Epsilon Chi

Psychology Honor Society: Psi Chi

Science and Mathematics Honor Society: Sigma Zeta

Social Work Honor Society: Phi Alpha

Student Life

The Office of Student Life, in Suite 1104, offers resources and services that enrich students' lives; prepares students for active involvement and leadership roles in the community; provides guidance and support to student-led organizations; and educates on policies and procedures within the Student Code of Conduct and Student Handbook.

Students interested in joining one of the many student organizations, finding ways to volunteer and serve with the community, and gaining leadership skills through workshops and other activities should email studentlife@madonna.edu to get more information.

Student Senate

Madonna University students are represented by the Student Senate. The Student Senate is comprised of 30 student leaders, led by a student President and Vice President, who are elected together each April. The Student Senate President and Vice President of the appoint a cabinet of student leaders to serve as Secretary and Treasurer, as well as other cabinet positions, including Secretary of Athletics, Secretary of Clubs and Organizations, Secretary of Communication, Secretary of Religion, Secretary of School Spirit, and Secretary of Technology. Each April the entire student body elects senators for each college and schools and for specific student populations (resident, commuter, transfer, post-traditional, graduate, and international). First-year senators are elected in October after new students arrive on campus. There are six committees within Student Senate, including Appropriations, Campus Life & Affairs, Diversity, Inclusion & Religious Affairs, Rules & Ethics, Special Events, and Wellness. Any student can join one or more of these committees to create proposals and resolutions. General Assembly and committee meetings are held weekly and are open to all students. For more information, Student Senate can be contacted by email at student.senate@madonna.edu.

In addition, students are invited to serve on the following institutional committees:

Faculty Standing Committees

University Curriculum, Educational Policy, and Assessment
Library

Institutional Advisory Committees

Bookstore
Food Services

Transitions Center

The Transitions Center is here to help guide and support post-traditional, transfer, and veteran students by providing success coaching, thoughtful programming, professional affiliations, and community connections. Located in Room 1404, the Transitions Center is specifically designed to be a welcoming space to help acclimate these students to Madonna University. The Transitions Center is also the hub for two registered student organizations—the Student Veterans Association and the Association for Nontraditional Students in Higher Education.

After admittance, transfer, post-traditional, and veteran students are encouraged to connect with the Transitions Coordinator, Room 1411, who is able to provide guidance, mentoring, and success coaching. These students will also be connected to a variety of academic, social, and community resources to encourage them to reach their education goals. The Transitions Coordinator also serves as a student advocate

on many university committees to represent the interests of these learners.

Writing Center

The Writing Center provides free writing support both in-person and online to all students, for any subject area and at any stage of the writing process. Located inside the Library (Room 2300), in the Administration Building, on the Livonia campus, the Writing Center is staffed by undergraduate Peer Tutors, as well as Writing Center Specialists who have master's degrees in writing-related fields. All tutors receive ongoing professional development for tutoring undergraduate and graduate students, including students who are studying English as an additional language.

Tutoring is available Monday through Friday in pre-scheduled appointments as well as on a drop-in basis. The Writing Center also provides writing resources to students through the MU OWL (Online Writing Lab) and hosts writing-themed special events throughout the year. For more information, call the Writing Center at the Livonia campus: (734)-432-5304 or email writingcenter@madonna.edu.

University Policies • Academic Process

Advising

Students work with their success coaches and faculty advisors to successfully navigate academic life. Academic advising is required to develop a plan of study toward graduation requirements. With an academic advisor and retention specialist, students explore, declare, and reaffirm selection of majors, select courses, obtain information on university requirements including course progression and requisites, support/foundation courses, recommended courses, majors, minors, and certificates, policies, and procedures, and identify campus resources.

Students should meet with their assigned success coaches and faculty advisors to discuss academic goals and career plans. Students are also strongly encouraged to meet with their advisor(s) prior to each registration period and on an as-needed basis to review course selections and evaluate their Plan of Study.

The University assumes no responsibility for a student's program if the student self-advises.

Assignment of Academic Advisors to Students

Following notification of admission, students are sent an Academic Information letter from the Office of the Registrar which lists their assigned advisor(s).

- Each student is assigned support staff and faculty based on his or her chosen path of study. Every student is first assigned a Retention Specialist—who you have as your Retention Specialist is based on the college that houses your chosen path of study.
- Admitted students who have not yet declared a major, or are exploring major options, are asked to select a college that they would like to explore and are then assigned the Retention Specialist responsible for that college.

Students can identify their assigned academic advisor and retention specialist by logging on to MY Portal, or may find specific major advisors by visiting the Advising website. The Office of Undergraduate Student Advising and Success is available to assist students with questions related to the advising process.

Student Orientation

All new students are required to attend an orientation. A "Must Attend Orientation" hold is put on all student records until the student has completed the orientation requirement.

Which Orientation Program to Attend

Traditional age (under age 24): On-Campus New Student Orientation *required*.

Adult, returning/Transfer students: On-campus or Online Adult and Transfer Student Orientation *required*.

International students coming from abroad: International Student Orientation *required*.

International students transferring from U.S. institutions: See *Adult, returning/Transferring student requirement*.

University Catalog Requirements

The university provides the following guidance to students regarding completion of their degree or certificate:

1. In order to complete their degree or certificate, students must meet the requirements of the University Catalog

("Catalog of Record") in effect the year of admission or readmission.

2. In the event that a student changes a degree or certificate during his/her course of study, the student is expected to meet the requirements for the new degree or certificate according to the University Catalog in effect at the date of the change.
3. In order to satisfy the core curriculum requirement, students must meet the requirements of the core curriculum in effect at the time of admission or readmission. If a student changes his/her degree or certificate program, prior core curriculum courses may be accepted for the new program.

Class Status

Freshman status is 0-29 hours. Sophomore status is 30-59 hours. Junior Status is 60-89 hours. Senior status is 90 hours or more.

Semester Hour Definition

Earning one semester hour of undergraduate credit requires a minimum of sixteen hours of classroom or direct instruction and a minimum of thirty-two hours of out-of-class student work, or its equivalent, during the time designated on the course syllabus.

In other credit-bearing activities, such as laboratory experiences, service learning, internships, practica, clinicals, studio work, and other academic experiences, an equivalent amount of work (minimum of forty-eight hours, or its equivalent of combined direct instruction and outside-of-class student work) is used as the measurement for a credit hour.

This policy conforms to the guidelines of the Carnegie unit semester hour definition, which is currently endorsed by the U.S. Department of Education.

Full-Time Student, Academic Load, Overload

A minimum load of twelve credit hours per semester is required for certification as a full-time undergraduate student. Note that credits earned through Advanced Placement (AP), College-Level Examination Program (CLEP), DSSTs, Prior Learning, and/or determining full-time enrollment status. The normal load per semester is fifteen (15) semester hours; more than eighteen (18) semester hours in a semester, exclusive of choral and physical education activities, is an overload. Approval to register for an overload requires special permission from the Vice President for Student Affairs and Mission Integration. See the Office of the Registrar for the Special Academic Request form to request an overload.

Registration

To enroll in courses, students must register through the Office of the Registrar. Students may register via the web, through the mail, by fax, or in person according to the dates published each semester in the University class schedule.

For shortened or late-starting classes, students may register any time prior to the first session.

Drop/Withdrawal from Classes

A course is considered 'dropped' during the period of time in which the tuition refund is 100%. A class may be dropped during the period of time designated in the course schedule. Drops may be done online through MY Portal during the posted dates, or in writing with the Office of the Registrar.

Courses dropped after the 100% refund period are considered 'withdrawn'. Students who wish to withdraw from a course(s) must do so officially at the Office of the Registrar. Requests must be made in writing before the deadline date specified in the calendar of the University Catalog.

Forms are available online, www.madonna.edu>Current Students>Registrar's Office>Registration-Changes, and at the Office of the Registrar. Failure to officially withdraw from a course(s) will be recorded as an F (0.0) grade and computed in the grade point average.

The date that the request for drop is received by the Office of the Registrar is used to determine the amount of tuition adjustment, if any, after the classes have begun (see current academic calendar in this Catalog or the current Academic Planning Guide. A student who does not officially withdraw from classes before the specified date, even though he/she does not attend class(es), is responsible for payment of full tuition and fees for the class(es).

NOTE: if withdrawal results from a call to active military duty, see also Call to Active Military Duty elsewhere in this Catalog.

Attendance

Class attendance is required of all students. Individuals are only permitted to attend courses in which they are currently enrolled.

Repeated absences may result in lowering of grade or loss of credit. The University places the responsibility for attendance upon the student. Prolonged absences will be reported to the Office of the Vice President for Student Affairs and Mission Integration.

When a faculty member is unavoidable detained for a scheduled class, students are expected to wait one half hour.

Student Excused Class Absence for University Sanctioned Events

Student absences due to university-sanctioned events and related travel are permitted as long as the student provides written notice to the instructor during the first week of class, or within 24 hours of a change in the original written notice provided by the coach or university official. Such university events include but are not limited to, athletic and performing arts competitions.

When scheduling conflicts occur, the following requirements apply:

1. Students should not be penalized for an approved absence due to participation in a university sanctioned event.
2. Reasonable accommodations to make up missed course work will be afforded to students.
3. Students must submit the "participation verification form" detailing the anticipated missed class sessions during the first week of class, or within 24 hours of a change in the original written notice as provided by a coach or university official.
4. When a student is excused from class attendance, they are still responsible for submitting assignments on time or based on an alternate schedule determined by the instructor.

5. When making adjustments to assignment due dates the instructor will provide the revised due date in writing to the student.
6. Students are expected to attend/complete all class sessions and course requirements according to the course syllabi.
7. Students cannot receive an excused absence from class to attend practice sessions.

Continuation of Instruction in the Event of a City-wide or Regional Emergency

The following policies apply when a course is interrupted by a city-wide or regional emergency.

If campus technology and electricity are operating, but the public is advised not to travel or congregate:

- students are to continue reading and completing assignments until classes resume;
- the online software, Blackboard, becomes the default instructional delivery mode;
- grades are submitted according to the regular schedule; except for laboratories, where an Incomplete will be given.

If campus facilities, technology, and electricity are not operating:

- students are to continue reading and completing assignments;
- communication will be by cell phone;
- clinical and field placements continue as scheduled, unless otherwise directed.

Declaration/Change: Major, Minor, Certificate

Students wishing to declare, change, or declare a major and/or minor do so after consultation with their assigned advisor and an advisor in the discipline in which they wish to declare. The Change of Academic Record form (available at the Office of the Registrar) must be filled out, signed by the appropriate advisor(s), and submitted to the Office of the Registrar. Students changing their major/minor are to meet the requirements for that major/minor in the University Catalog in effect at the time of change. The University Core requirements, however, may follow the University Catalog in force at the time of admission.

Several Madonna programs have admission, or pre-admission requirements specific to their programs: ASL Education, Deaf Community Studies, Dietetics, Forensic Science, Music, Nursing, Paralegal Studies, Sign Language Interpreting Studies, Social Work, and Teacher Education. See the Plans of Study listing in the Catalog, or departmental advisors, for requirements and procedures to each program.

Examinations

Final examinations are administered at the end of each course. An unexcused absence from a final examination may constitute a failure in the course.

Application for Graduation

Students who plan to earn bachelor degrees, associate degrees, or certificates must file the appropriate form with the Office of the Registrar according to the dates published each semester in the Academic Planning Guide. Failure to meet the deadline date may result in graduation being postponed until the following semester.

Non-refundable graduation fees are assessed for each degree and each certificate (see Fees section of this Catalog). The application is valid for one year from the semester for when the student is applying. Students may postpone their graduation date for three consecutive semesters.

Students who wish to file an Application for Graduation pay the fee(s) at the Student Accounts office. The completed application form, signed by the student and the student's major advisor, is submitted by the student to the Office of the Registrar with an attached plan of study.

See the University Calendar (page 2) and the published Academic Planning Guide for each semester for deadline dates. Students may file late only within 30 calendar days of the due date with the approval of the Office of the Registrar. An additional fee is assessed. Applications for graduation may not be accepted beyond 30 days after the due date.

To qualify for graduation in the semester of intent, students have 30 days beyond the last day of the semester to meet all of the requirements, such as completing all courses/course work, having incomplete grades resolved and submitted by the instructor to the Office of the Registrar, transfer and/or advance standing course work submitted, etc. Requirements submitted beyond the 30 days will be considered for the next available conferral period at the end of the following semester/ Cases involving students who complete Directed Teaching beyond the 30-day limit will be considered on an individual basis, with input from the Coordinator of Directed Teaching and the approval of the Dean of the College of Education and Human Development.

Graduation

Students may graduate at the end of each semester upon completion of degree requirements. A minimum 2.0 final semester and cumulative grade point average is required. The annual commencement exercises are scheduled early in May. Students receiving degrees or completing certification are encouraged to participate in the exercises.

Commencement

Students who expect to complete degree or certification requirements at the end of the summer session may participate in the current May commencement exercises. To register for Commencement and graduation activities, log in to MY Portal and, on the Students tab, find the link in the left-hand navigation for "Graduation Info."

There is only once commencement in May each year. Students who expect to graduate at the end of the summer semester in July may choose to participate in commencement exercises in the May before or after their courses are completed. December graduates participate in the commencement following completion.

Students who have completed and submitted all required application materials no later than April 1st of each year will be included in the Commencement program. Submissions after that date will be considered on a case-by-case basis.

Degrees with Distinction – Academic Honors at Commencement

Academic honors are available to students receiving a bachelor degree and are based on the students' cumulative GPA at Madonna University. Degrees with distinction are based on the following grade point averages:

Title	GPA
With Honors	3.5 – 3.699
With High Honors	3.7 – 3.899
With Highest Honors	3.9 – 4.0

For the purposes of commencement, honors will be based on the student's cumulative grade point average at the end of the fall semester. Final honors will be calculated and appropriately recorded on the diploma and transcript at the time the degree is conferred.

Diplomas

Diplomas for May, August, and December graduates are mailed to the graduates approximately four weeks after each graduation date.

University Policies ● Course Options and Plans of Study

Level of Instruction

Courses with numbers from 1000-2999 are lower division courses intended primarily for First-Year students and Sophomores. Juniors and Seniors are urged to take upper division courses with numbers from 3000-4990. Additional guidelines can be found in the Course Numbering Guidelines at the beginning of the Course Descriptions section of this Catalog.

Selection of Course Offerings

Students must observe requisites (such as prerequisites, corequisites, program admission processes, etc.) set by the University and/or their specific departments. Since the University must consider the needs of the entire student body, it may be impossible to honor individual requests for particular hours and instructors. The scheduling of courses and sections at certain hours does not assure a student's admission to any given section.

The University may cancel or substitute any course listed which there is insufficient registration.

When Courses May Satisfy More than One Requirement

A course may simultaneously satisfy (a) a requirement for a degree major or minor, (b) a Required Foundation Course or Support Course requirement of other major(s) or minor(s), (c), any certificate of Completion or Certificate of Achievement requirement, and (d) either one MU Core or one MU Signature course requirement. When a course is used toward fulfillment of more than one component of the graduation plan, the credit hours accumulate into the student's graduation total only once.

A course may, however, apply toward the Required Course component of only one major or minor. In the case of the same course being required in a second major or minor, the student must substitute a difference course with the advisor's approval. The substitution must be documented in the Office of the Registrar by using the Substitution of Course form.

This policy extends to majors and minors in a second (or later) bachelor degree.

Elective S Grade

Junior, seniors, or post-bachelor students may elect in each semester one course, not applicable to a major, minor, certificate, or professional program, for which the usual academic credit may be granted with a grade of S. The intention of the elective S grade is to encourage exploration, by upper-division students, of new subjects in MU Core or free elective course offerings. See University Policies/Academic Standards for the full **S-Satisfactory (Optional Grade)** policy.

Prior Learning

The **Prior Learning Program** has been designed to help adults gain credit for learning that they have acquired before returning to the university and that can be correlated with a college course. Prior learning credit can be applied toward a major, minor, or other required or elective course.

Any formally-admitted and enrolled student may apply for prior learning credit. The credit will be transcribed by the Office of the Registrar at reduced course fees.

A total of 60 semester hours of credit can be granted for prior learning. Thirty of these can be awarded through the College Level Examination Program (CLEP) or DSST program, combined. (Note that 30 of the minimum 120 credits for graduation must be residential credit. Prior learning credits cannot be used to satisfy the 30 semester hours of residential credits for first and/or baccalaureate degree.)

Prior learning credits are excluded when determining eligibility for financial aid, full-or-part time status, Dean's List, and proof of U. S. residency (I-20 verification).

The Prior Learning Evaluation Process

The student first meets with an academic advisor or departmental advisor to develop a plan of study for the desired degree program. A student who has identified the possibility of credit for prior learning within the context of the plan then works with an evaluator to decide what course content has been mastered, how the knowledge will be documented (letters, certificates, work samples), and how evaluated (portfolio, examination, product, video, observation). The prior learning is to meet the following criteria:

- **Learning:** Credit is awarded for learning, not for the experience itself.
- **Precedent:** Madonna University must have awarded credit in this area.
- **Non-Routine:** Learning must not overlap granted credits earned at a post-secondary institution. Where learning is sequential, the student differentiates between levels of learning.
- **Theoretical and Applicable:** Students should understand and articulate theory, history, principles, and concepts of subject, and be able to apply knowledge to different situations.
- **Documented and Verifiable:** Learning must be supported by acceptable documents and demonstrated to an expert.

Evaluations fall generally into two broad types: (1) recognition of specified non-collegiate programs, examinations, and certifications, and (2) individualized in-depth evaluation designed specifically for the student and/or the course content. Usually the grade of "S" (Satisfactory) is recorded for Prior Learning credit.

Recognized programs, examinations, certifications:

Madonna University awards credit for 30 of the examinations of the College Level Examination Program (CLEP), for 16 of the DSST examinations, for the completion of certain non-collegiate programs (such as that of the Spec Howard School of Media Arts or the Michigan Fire Fighters Training Council and certain allied health professional training programs), or for learning indicated by holding certain licenses and certificates (as for the various health science/allied health professional personnel). Madonna also awards credit, during the admission process, for Advanced Placement (AP) examinations with scores of 4 or 5.

College Level Examination Program (CLEP) examinations and **DSST (formerly DANTES Standardized Subject Text)** examinations measure a student's mastery of college-level introductory course content in a wide variety of disciplines. Students meeting the credit-granting score standard will earn the credits for that course. For CLEP examinations, a score of 50 presents mastery within each discipline.

A student can register for the CLEP at any open CLEP test center. A list of available testing centers can be found at <https://clep.collegeboard.org/test-center-search>. For DSST examinations, consult the following website: <https://www.prometric.com/en-us/clients/dsst/Pages/landing.aspx>

When registering for CLEP or DSST examinations, the student will be asked to specify in advance whether a grade of S (Satisfactory) or a traditional letter grade is requested. For courses meeting University Core Curriculum requirements, the S grade is always acceptable. If the credit is to be used toward the requirements of a major, minor, or certificate, note that in some programs there is a departmental policy that a letter grade must be assigned for the credit to count toward majors, minors, or certificates. Check with advisors in the specific department for information.

Registered Nurses (RNs) and Licensed Practical Nurses (LPNs or LVNs) holding current licenses may see advisors in the College of Nursing and Health. Holders of licenses or certificates in other **allied health professional fields** should see the Physical and Applied Science advisor, College of Arts and Sciences.

Graduates of programs listed under Recognized Non-Collegiate Credit in this catalog should consult the program directors of programs indicated there.

To register for credit earned through these recognized examinations, programs, and licenses, a signed Transcription of Credit form is required. For the form, see the Office of the Registrar on referral from a department advisor or when CLEP or DSST scores are received. Registration can be done at any time at the Office of the Registrar, with the payment of a transcription fee (see Tuition and Fees section of this Catalog).

Persons who earned credit during military service that is posted with their discharge papers, see more information in the Admissions section of this Catalog.

Individual Course Evaluations

For evaluation of prior learning, the student should see the Office of Undergraduate Student Advising and Success to begin the process, which involves department faculty evaluators.

To register for credit awarded through an individual evaluation, the student and evaluator complete the Prior Learning Evaluation form available in the Student Accounts Office. Registration for credit is at regular registration periods. Reduced tuition is charged for Prior Learning Credit (see Tuition and Fees).

Residency Requirement

Credits earned by direct Madonna University registration for a course and completion of the associated course work are credits earned in residence. All bachelor degrees require a minimum of 30 semester hours of credit in residence. All associate degrees require a minimum of 15 semester hours of credit in residence.

Prior learning credits, such as those earned through Advanced Placement (AP), College-Level Examination Program (CLEP), DSSTs, and/or course competency examinations, and/or evaluations, as well as transfer or guest credits, are ignored when counting residency credits and are not included for any enrollment status.

Substitutions and Waivers

Students seeking a modification to their plan of study should consult with their advisor and/or the chair or program leader of the related department for guidance.

Substitution/Waiver of a Course Within a MU Core Course Requirement

A department chair may approve a substitution or waiver of a course within a MU Core Course whose course(s) fall within that department's area. Documentation of the substitution/waiver, including rationale (for waivers only), should be filed with the Office of the Registrar.

Substitution/Waiver--Other

Non-course requirement (good examples: articulation agreement requirements, Catalog-listed requirement related to Madonna residency within the major, minimum upper-division within the major/minor, senior comprehensive examination). A chair or program leader may approve the substitution/waiver of a non-course requirement within a major, minor, or certificate within that department's area. Documentation of the substitution/waiver, including rationale (for waiver only), should be filed with the Office of the Registrar.

Course Requirement. A chair or program leader may approve the substitution/waiver of a course requirement within a major, minor, or certificate within that department's area by authorizing the substitution or another course or courses suitable to the program or by waving the new requirement. The required credit hour total for the major or minor, and for the credential (degree or certificate), and the required grade point average must be maintained regardless of the substitution or waiver. Documentation of the substitution/waiver, including rationale (for waiver only), should be filed with the Office of the Registrar.

NOTE: If extraordinary circumstances impede a student's effort to make a timely appointment with the chair or program leader, the student should meet with the chair's dean to discuss his/her petition.

Internships

Students participating in an internship must communicate with their faculty advisor to confirm the availability of academic credit for the experience. Upon confirmation, students will work with the Career Development Office for assistance with the internship process.

Students who have secured an internship experience are required to register for academic credit using the following course numbers of the appropriate department: 1910, 1920, 2910, 2920, 3910, 3920, 4910, and 4920.

Eligibility criteria for students interested in an internship:

1. Sophomore or higher college status, unless approved for earlier placement by the department granting credit.
2. Transfer students qualify after earning twelve semester hours at Madonna University or earlier upon departmental recommendation.
3. A cumulative and Madonna University grade point average of 2.5 or better or as defined by the department in which internship credit will be earned.
4. A declared major.
5. Available for employment during the semester defined by the employer's job requirements.

Students may apply for an internship by completing the application found on the Career Development page, under the Students tab on My Portal and by making an appointment to meet with their faculty advisor. Application for internship is required to be completed by **June 1st** for Fall semester,

October 1st for Winter semester, and **February 1st** for Summer semester.

Catholic College Consortium

Madonna University is a member of the Detroit Area Catholic Higher Education Consortium (DACHEC).

Undergraduate students in good standing may take one or more courses at other consortium institutions (Sacred Heart Major Seminary and the University of Detroit Mercy) at no additional tuition cost, subject to the following conditions.

1. Full-time students who wish to take consortium courses in a given semester must be registered for a minimum of twelve (12) credit hours, at least eight (8) of which are to be taken at Madonna University; students must pay at least the minimum full-time tuition at Madonna University.
2. Part-time students who wish to take consortium courses in a given semester must be registered for a minimum of six (6) credit hours, at least three (3) of which are to be taken at Madonna University.
3. Consortium enrollment is limited to undergraduate courses. It does not extend to the graduate level.
4. Approval for enrolling in courses at other consortium institutions must be obtained from Madonna University; consortium authorization form(s) must be completed by the student and signed by the Registrar. The signature of the Madonna Registrar constitutes assurance to the student that the credits taken at the host school will be accepted by Madonna University on the same basis as course work completed at Madonna. The form is available from the Office of the Registrar, 2300 Administration Building, Livonia Campus.
5. Tuition is paid to Madonna University. Special laboratory and/or studio fees are paid directly to the host school.
6. Students must follow all registration procedures at both Madonna University and the host institution. To add, drop, or withdraw from a course, a student must comply with the deadline of the host institution and must complete the appropriate forms at both institutions so that both Registrars are notified.
7. The authority to limit total number of courses which Madonna University students may pursue at other consortium school's rests with the Provost and Vice President for Academic Administration.
8. A part-time student may not register for more than twelve (12) semester hours of consortium credit during his or her undergraduate career.
9. Awarding of Title IV financial aid to students in the consortium is the sole responsibility of the home school, Madonna University.

Online Consortium of Independent Colleges and Universities (OCICU)

Madonna University is a member of the online Consortium of Independent Colleges and Universities (OCICU).

1. A student must be an admitted Madonna University student to register for OCICU courses.
2. A student on probation may not take OCICU courses.
3. A student must have sophomore or higher standing (30 or more acclimated semester hours) to register for OCICU courses.
4. Students must complete satisfactorily a two phase training module, first a module offered by Madonna University on Online Learning and then one offered by the Host Institution on the specific online teaching platform of that institution.

5. Students must register for a course at least two weeks prior to the course start date.

6. Students who withdraw from an OCICU course prior to the start date qualify for tuition refund. After the start date, students are responsible to pay the course tuition.

Accumulated Credit for Physical Education Activity Courses

Students may enroll for credit in a given physical education activity course more than one time with permission of the instructor. Accumulated credit for a given physical education activity course is limited to 4 s.h. A maximum of 6 s.h. of credit from physical activity courses may be used to fulfill the 120 s.h. graduation requirement for the baccalaureate degree.

University Policies • Academic Standards

Scholastic Integrity

Madonna University's core values are the basis for the student code of ethics, which promotes the life principles of honesty and integrity. Academic dishonesty violates this code of ethics and includes:

1. Plagiarism, that is, representing the work of another as one's own. When a student uses the words, ideas, or information of another person or source without correctly giving credit to that source, he or she is violating the ethical code of Madonna University. Examples of plagiarism include purchasing a paper over the Internet, "borrowing" a paper someone else has written, turning in an essay with uncredited passages from an outside source, cutting and pasting from the Internet without proper citations, or resubmitting a paper written for a different class without the instructor's permission.
2. Cheating on a test or examination or helping another student cheat.
3. Submitting an assignment that is not the student's own work.
4. Violating library rules regarding unauthorized removal or damaging of books, magazines, or periodicals.

The course instructor will determine an appropriate penalty for academic dishonesty after meeting or communicating with the student. The consequences of academic dishonesty may include a failing grade on an assignment; a failing grade for the course; or, in cases of repeated academic dishonesty, expulsion from the University. In cases of suspected plagiarism, the instructor may choose to include the Director of Writing in this discussion. A student so accused has the right of appeal to the Student Appeal Board (see Student Grievance Procedure in University Policies/Academic Standards section).

Students having difficulty with their assignments are encouraged to meet with their course instructors for additional help and make use of Madonna University's academic support services: Center for Personalized Instruction, Writing Center, Nursing Simulation Laboratories, and library staff and website.

Research Integrity

In keeping with the Franciscan value of reverence for the dignity of each person, Madonna University promotes respect for the individual in the ethical conduct of research. University faculty operationalize this across the institution by requiring all students involved in research education to receive training in research integrity and the protection of human subjects.

University policies for research integrity mirror those of federal agencies regarding funded research. Full information on research integrity policies, the Institutional Review Board, and the investigation and resolution of allegations of research misconduct is available on the web page of the Center for Research.

Professional Performance and Decorum

The University reserves the right to request students to withdraw from a program because of unsatisfactory performance in the theoretical or practical phases of that program or because of inappropriate behavior.

Interpretation of Grades

Madonna University uses a plus/minus grading scale which includes the following grades: A, A-, B+, B-, C+, C, C-, D+, D,

and F. Specific accommodations to the plus/minus grading scale (i.e., A, A-, B+, B-, and C+) have been left to the discretion and interpretation of the individual departments, but should be consistent with the following general guidelines:

A-Exceptional-computed into the Grade Point Average at 4 honor points per semester hour

Represents outstanding achievement. It implies that the student:

- a. consistently exceeds average requirements;
- b. is always alert, active, and makes original and pertinent contributions to class discussions with evidence of a well-developed critical attitude and sound judgement;
- c. is prompt, accurate in assignments, and shows command of English and mastery of the subjects;
- d. reads extensively, works independently, and pursues research projects independently;
- e. gives evidence of superior aptitude, high originality, and great ability to grasp and organize the subject matter of the course and apply it other fields and to the problems of daily life.

B-Very Good-computed at 3 honor points per semester hour

Represents work which is decidedly above average. It implies that the student:

- a. frequently exceeds average requirements;
- b. is usually alert and active in class discussion, showing some critical attitude and good judgement;
- c. exercises noticeable care in working on assignments and gives evidence of doing independent reading and research;
- d. is eager to learn and willing to profit from direction and criticism;
- e. has ability to transfer the general principles of the course to other situations.

C-Satisfactory-computed at 2 honor points per semester hour

Represents work which is good. It implies that the student:

- a. performs the required assignments regularly;
- b. is attentive during class hours and give adequate answers;
- c. is usually careful, neat, and accurate in work;
- d. masters the facts of general principles of the course and grasps their more general significance;
- e. uses material from preceding courses but needs additional assistance;
- f. does research and independent reading.

D-Poor but Passing-computed at 1 honor point per semester hour

Designates work which is below average, that is, below the standards set for graduation unless it is balance by superior work in other courses. D grades are not acceptable for courses in a major, minor, certificate, or professional programs. A D grade implies that the student:

- a. usually does the minimum requirements and merely grasps the basic materials of the course;
- b. frequently misunderstands the assignments and is careless in preparation of them;
- c. is willing but slow to comply with instruction and correction;
- d. seldom or never participates in class discussion and only gives irregular answers when detailed questions are directed by the instructor or other students.

F-Failure-allowed 0 honor points

- a. designates unacceptable work and requires the student to repeat the course to gain credit.
- b. F is included in computing the grade point average.

FW-Failure/Unofficial Withdrawal-allowed 0 honor points

- a. Refers to a student who fails to attend or ceases to attend through at least 60% of the course without officially withdrawing from the course; the withdrawal determination date, for students who do not officially withdraw, will be recorded as the date of the determination of the FW grade.
- b. Faculty will enter grades of F (0.0) or I (Incomplete). When final grades are calculated, the Office of the Registrar will calculate the percentage completion and change the grade to FW if warranted.
- c. For Federal financial aid purposes, it will be assumed that the student unofficially withdrew on the last date of attendance.
- d. FW is included in computing the grade point average.

AU-Audit

Audit status must be selected at the time of registration with the Office of the Registrar. Audit status cannot be selected when registering online (elect with in-person or fax registration). Students who audit a course do not take examinations. The audit grade of "AU" is entered on the student's transcript; the AU grade is not included in the grade point average calculation. Students cannot convert a course taken for audit to academic credit or vice versa at a later time. Students pay full tuition and fees to audit courses.

I-Incomplete

It is a student's responsibility to initiate the request for an incomplete "I" grade, with the instructor. This grade is only appropriate at the end of the semester when most of the course work has been completed, but for serious reason the student is unable to complete the remaining course requirements by the grade filing deadline. A request for an "I" grade may be initiated, approved, or denied at the discretion of the instructor.

If the student does not complete the required work before six weeks after the end of the semester, the "I" grade automatically becomes "F".

The deadline for each semester is published in the Academic Planning Guide, available online.

S-Satisfactory (Optional Grade equivalent to a C (2.0) or better)

Except for specifically designated S courses open to all students, only junior, senior, or post-bachelor students may elect in each semester one course, not applicable to a major, minor, certificate, or professional program, for which the usually academic credit may be granted with a grade of S. The intention of the elective S grade is to encourage exploration, by upper-division students, of new subjects in the MU core or Signature core, and free elective course offerings. The S grade is not factored into the GPA. The policies governing such markings are:

- a. The option for marking may not be given in courses for the major, minor, certificate or professional programs, unless granted by department chairperson, or under the circumstances noted in 'h' below.
- b. Students may elect the S grade at the Office of the Registrar not later than the date specified in the school calendar.
- c. Typically, instructors will issue standard grades for course work which will be transcribed according to the S grade policy by the Office of the Registrar.
- d. Only grades of C (2.0) and above will be converted to S. A grade of C-, D+, D, or F will remain as such and will be included in the grade point average.
- e. S grades cannot be converted to a letter grade at a later date.

- f. Students taking CLEP or DSST examinations must decide whether they will take the course for an A, B, C, D, F grade or for an "S/F" grade. Students must discuss this decision with their major advisors because department policies vary. In some departments the letter grade must be elected.
- g. Students taking *Independent Study* courses must decide whether they will take the course for an A, B, C, D, F grade or for an S/F grade at the time they apply for the Independent Study course.
- h. Departments may designate entire courses and grade only on an S/F basis upon consultation with their respective Dean and notification to the Registrar. Students enrolled in these courses will receive either an S or F grade.

W-Withdrawal

Students who wish to withdraw from a course(s) must do so officially, in writing, at the Office of the Registrar before the deadline date specified each semester in the schedule of classes. Failure to officially withdraw from a course will be recorded as F or FW, a failing grade, and computed in the grade point average.

Y-Carry-Over

For courses taught over two semesters with grade awarded in second semester. *Used for graduate-level courses.*

Minimum Course Grades in Programs

Only a grade of C (2.0) or better in each required course or required support or foundation course for a major, minor, certificate, or professional program, will apply toward completion of a program.

Repeating Courses

1. Students receiving a grade below C (2.0) in a required course or a required support or foundation course of a major, minor, certificate, or professional program taken at Madonna University must repeat that course at Madonna University. A comparable course taken at another institution will not be transferred in.
2. Students receiving a grade below C (2.0) may be permitted to repeat the course once; twice, if approved by the instructor and department. In computing the GPA, only the grade and credit hours of the last attempt is included in the computation; however, all earlier attempts remain on the transcript.
3. Madonna University does not guarantee that a course will be offered in the future. Therefore, students will not be eligible to repeat courses no longer offered by the university.

Period for Grade Review and Changes

Once a grade has been recorded, and has remained on the student's record for a period of one year after the last date of the semester in which the grade was earned, it is considered permanent and changes will not be permitted.

How to Calculate Grade Point Average (GPA)

To compute a Grade Point Average (GPA) for one semester:

- convert letter grades to point equivalents (thus: A=4.0, A-=3.66, B+=3.33, B=3.0, B-=2.66, C+=2.33, C=2.0, C-=1.66, D+=1.33, D=1.0, and F=0.0; note that S-grade, I-grade, and Audit courses are not included in the computation);
- multiply the number of points representing the grade for each course times the number of semester hours for the course;
- add the grade points earned for the semester;

- divide the total points by the number of semester hours attempted that semester, excluding "S" grades and their semester hours. (Note that AP, transferred, and transcribed credits are all calculated with "S" grades.)

The result is the semester GPA. For example:

Course	Credits	Grade	Point Value	Calculation	Grade Point
WRT 1010	3 s.h.	B+	3.33	3x3.33=	9.99
SOC 1020	3 s.h.	C	2.00	3x2.00=	6.00
RST 1330	3 s.h.	A-	3.66	2x3.66=	10.98
UNV 1020	2 s.h.	F	0.00	2x0.00=	0.00
MTH 1050	4 s.h.	D	1.00	4x1.00=	4.00
	15 s.h.				32.97

The semester GPA in this example is the total grade points (32.97) divided by the total semester hours (15), i.e., 2.198 semester GPA.

The career GPA is calculated the same way, including all semesters, course grades, and credit hours attempted at Madonna University. (For repeated courses, see the policy under "Repeating Courses.")

A student's baccalaureate GPA is frozen at the time of graduation. Students who return to Madonna University for further work earn a GPA recalculated to reflect honor points earned for courses taken for the second degree.

Dean's List

Students who register for and complete at least 6 semester hours of letter-graded Madonna University credit (none by evaluation), and who maintain a grade point average of 3.5 or better during the semester, merit first honors on the Dean's List; 3.25 to 3.49, second honors. The GPA will be computed only upon earned grades of A, B, C, D, or F. Grades from courses taken concurrently at other institutions will be excluded from consideration.

A student's baccalaureate GPA will be frozen at the time of graduation. Students who return to Madonna University for further work will earn a GPA recalculated to reflect honor points earned for courses taken for the second degree.

Degrees with Distinction

Academic Honors with Distinction are available to students receiving a bachelor degree. To be eligible for a degree with distinction, a student must earn a cumulative GPA of 3.5 or higher at Madonna University.

Degrees with distinction are based on the following grade point averages: With Honors, 3.5-3.699; With High Honors, 3.7-3.899; With Highest Honors, 3.9-4.0.

A student pursuing a second baccalaureate degree may earn a degree with distinction based on all course work beyond the first degree.

For the purposes of commencement, honors will be based on the student's cumulative grade point average at the end of the fall semester. At the time the degree is conferred, final honors will be calculated and appropriately recorded on the diploma and transcript.

Academic Standards

To help ensure academic progress, students should regularly monitor their records in their MyPortal account and consult with their advisor/mentor. The Registrar reviews student records at the end of each semester and when faculty submit grade changes. Based on this review and regardless of formal notice, the student's academic standing will be updated accordingly.

Good Standing

A student is in good standing if the student is a new student (i.e., has not yet completed a semester at Madonna University), or a returning student's cumulative grade point average is at least 2.00.

Academic Warning

Undergraduate students will be notified whenever their semester grade point average falls below 2.00. Such a warning enables students to take corrective action concerning their academic performance. Grades of S, I, and Y are not considered in computing this grade point average. Whenever an instructor submits a student's final course grade, grade point average and academic standing are updated to reflect that grade.

The period of academic warning is one semester. Students with a warning are required to meet with their Academic Intervention Monitoring (AIM) mentor by the third Friday of the semester. A hold on registration will be in effect until the meeting with the AIM mentor occurs.

Academic Probation

A student is placed on academic probation if during the most recent semester in attendance the student has been in good standing but at the end of that semester when it appears their performance places their academic objectives in jeopardy. Students are placed on academic probation when their cumulative grade point average falls below 2.00. Grades of S, I, and Y are not considered in computing this grade point average. Whenever an instructor submits a student's final course grade, grade point average and academic standing are updated to reflect that grade.

The period of probation is one semester. Students on probation are required to see their Academic Intervention Monitoring (AIM) mentor by the third Friday of the semester. A hold on registration will be in effect until the meeting with the AIM mentor occurs. If at the end of the semester, the cumulative grade point average is 2.00 or above, the student is returned to good standing. If not, the student will be put on final probation or academic recession.

If in the special case that there are grade changes during that semester which result in the student's cumulative grade point average increasing to 2.00 or above, the student is returned to good standing.

Final Probation (Making Progress)

An exception to being academically recessed can be made for students who have shown substantial progress during the semester, and the evidence suggests that the student would attain good standing in one more semester. A student is placed on final probation if, during their previous semester in attendance, the student was on academic probation, and at the end of the semester, the semester grade point average is above 2.00, but the cumulative grade point average is still below 2.00. Grades of S, I, and Y are not considered in computing this grade point average. Whenever an instructor submits a student's final course grade, grade point average and academic standing are updated to reflect that grade.

The period of final probation is one semester. Students on final probation are required to see their AIM mentor by the third Friday of the semester and utilize other academic support resources identified by the Office of Undergraduate Student Advising and Success. A hold on registration will be in effect until the meeting with the AIM mentor occurs. If at the end of the semester, the cumulative grade point average is 2.00 or above, the student is returned to good standing. If at the end of the next semester of attendance, a student's cumulative grade point average is below 2.00, academic status would continue as final probation or move to academic recess.

Students on final probation may not be eligible for financial aid until they return to good standing. Information and appeals are available from the Student Financial Services Office and your financial aid officer.

Academic Recess

A student who is academically recessed shall not be enrolled in any courses at Madonna University for at least one semester up to a full academic year, at the discretion of the Provost.

1. If in any semester a student receives all semester grades of 0.0 (numeric equivalent) or I grades and there are at least 6 credits of 0.0 (excluding S grades), the student will be academically recessed unless there are compelling reasons certified to the record by the Provost.
2. If at the end of a semester during which the student was on final probation the cumulative grade point average is still below 2.00 and the semester grade point average is below 2.00, the student will be academically recessed.
3. If a student has previously been put on warning for lack of satisfactory progress in the major and at the end of any subsequent semester the student is not making satisfactory progress, the student will be academically recessed.

After an academically recessed student has been out of Madonna University for the prescribed period, the student may be reinstated to Madonna University at the discretion of the Dean of Students. If reinstated, the student will be put on probation, final probation, or warning for lack of progress in the major, and the Dean of Students will impose specific conditions, in writing, that must be met. A second recess is dismissal.

Students who are reinstated after being academically recessed may not be eligible for financial aid until they return to good standing. Information and appeals are available from the Student Financial Services Office and your financial aid officer.

Academic Dismissal

Students who have been dismissed shall not be enrolled in any courses at Madonna University for at least one year up to two years after their last semester enrolled before they apply to be reinstated to the University.

1. If a student has previously been academically recessed or dismissed, reinstated, and still has not attained good academic standing or has failed to comply with the specific written conditions imposed at the time of reinstatement, the student will be dismissed.
2. At the end of a semester in which more than 30 credits have been repeated, the student will be dismissed.

After that period, they may be readmitted only if a convincing case can be made that circumstances have changed so that there is a reasonable probability of success. In consultation with the Dean of Students, the Office of

Undergraduate Admissions may readmit a student and specific conditions, in writing, will be imposed.

Warning for Repeats

At the discretion of the Office of Undergraduate Student Advising and Success, a student will be put on warning for repeats after repeating between 20 and 30 credits.

Students on warning for repeats are required to see their AIM mentor by the third Friday of the semester.

At the end of the semester in which more than 30 credits have been repeated, the student is dismissed.

Warning for Withdrawals

At the discretion of the Office of Undergraduate Student Advising and Success, a student will be put on warning for withdrawals after withdrawing from 2/3 of the courses attempted in a semester.

Students on warning for withdrawals are required to see their AIM mentor by the third Friday of the semester.

At the end of the semester in which more than 40 attempted credits have been withdrawn from, the student is dismissed.

If a student receives financial aid and if for any reason the student completely withdraws from school, the student may be required to pay back a portion of the financial aid received. Failure to pay back excess funds could result in the loss of all future financial aid.

The students must consult with the Office of Financial Aid before withdrawing from classes. Withdrawing from classes can have a significant impact on students' satisfactory academic progress for financial aid eligibility.

Warning for Lack of Satisfactory Progress in the Major

If at the end of a semester an upper-division student is not making satisfactory progress toward the degree requirements stated in the Undergraduate Catalog (e.g., a student is not taking courses in the student's major, or the student's grade point average is below the required major grade point average), or the student's semester grade point average is below 2.00, the student may be put on warning for lack of satisfactory progress in the major. Refer to the College's guidelines for specific majors.

Such students must receive written guidance of the criteria they must satisfy to progress satisfactorily. Students on warning for lack of satisfactory progress in the major may be required to see an academic advisor by the third Friday of the semester before enrolling for any subsequent semester. If they do not, a hold may be placed on their registration.

If a student has been on warning for lack of satisfactory progress and is not making satisfactory progress in any subsequent semester, the student will normally be academically recessed. However, if lack of satisfactory progress is due to poor grades in the major courses and the student is otherwise in good standing, the student would be permitted (even encouraged) to remain at Madonna University if the student changed to a more appropriate major.

After Academic Recess or Academic Dismissal

Academic recess or dismissal does not imply future readmission nor does it mean that the person is forever barred from enrollment at Madonna University.

Academic Reinstatement

A student who has been academically recessed may apply for reinstatement, to be effective at the conclusion of the specified period of recess or dismissal if less than two years has elapsed. An academically recessed student after a period at least one semester up to two years can be allowed a second

chance to demonstrate satisfactory academic performance and be reinstated, at the discretion of the Dean of Students.

Academic Reinstatement Procedure

Any undergraduate student who in less than two years was academically recessed or dismissed from the university is eligible to submit a Special Academic Request to the Office of the Registrar at least one month prior to the beginning of the semester in which the student intends to resume studies. Students applying for reinstatement should complete a Special Academic Request form in the Office of the Registrar and include the following items:

- Student name, identification number, Madonna email address, and current phone number;
- Explanation of circumstances that led to academic recess or dismissal;
- Evidence of growth in maturity and responsibility indicative of capacity to perform university-level work;
- Personal plan for academic success.

Academic Readmission

A student who has been dismissed may apply for readmission to be effective at the conclusion of the specific period of academic recess or dismissal, if two years or more have elapsed. Academically recessed or dismissed students after a period of two years or more can apply for readmission through the Office of Undergraduate Admissions.

A student will be required to submit a report of activities during the period of recess. The report will be used as one kind of evidence regarding readiness to return. If the student has attended another institution while on recess, he or she must submit an official transcript and have earned at least a 2.00 grade point average (GPA), or its equivalent, to be considered for reinstatement. Refer to policy in "Minimum Course Grades in Programs" section of this Catalog.

Academic Readmission Procedure

Any undergraduate student who more than two years previously was academically recessed or dismissed from the university should submit a readmission application to the Office of Undergraduate Admissions at least one month prior to the beginning of the semester in which the student intends to resume studies. Additionally, students applying for readmission should complete a Special Academic Request form in the Office of the Registrar and include the items listed in the academic reinstatement procedure.

Declaration of good intentions are not sufficient. Each request for reinstatement or readmission will be considered on its merits. If the student has attended another institution while on dismissal, he or she must submit an official transcript for reinstatement or readmission. Reinstatement and readmission are not automatic, but based upon the merits of each applicant and the documentation of activities during the dismissal period. Additional supporting documents may be required through the reinstatement and readmission process.

Students dismissed twice are not eligible to return to the University. On occasion, when students have been away from the University for at least 10 years, a request for readmission may be submitted for consideration by completing a Special Academic Request form from the Office of the Registrar.

Satisfactory Academic Progress for Financial Aid

Federal and state regulations require that students make Satisfactory Academic Progress (SAP) in order to receive federal or state financial aid. This means that the student must maintain a minimum cumulative GPA of 2.0. In addition, the student must also complete a minimum number of credit

hours each semester. Federal regulation requires that the standards applied to students receiving financial aid also apply to those students during periods when they are not receiving aid. To measure satisfactory academic progress, the Financial Aid Office uses the following "SATISFACTORY ACADEMIC PROGRESS" (SAP) policy.

Qualitative and Quantitative Standards

For the purpose of determining eligibility to receive financial aid, overall qualitative and quantitative standards are reviewed and evaluated by the Financial Aid Office. Satisfactory Progress is assessed prior to the student's first disbursement of the school year and again at the end of each semester once grades are available.

Qualitative

- **Cumulative Grade Point Average (GPA)**
Students must maintain a semester and cumulative GPA of at least 2.0.
- **Course Incompletes, Complete Withdrawals, and Remedial Courses**
The university does not offer non-credit remedial courses. Incompletes are not included in the calculation of the student's GPA. Students withdrawing from the university will receive credit for all work successfully completed up to the point of withdrawal. Students withdrawing from the university with passing grades will receive credit for all work successfully completed up to the point of withdrawal and the time frame used will count in the quantitative requirements.
- **Period for Grade Review and Changes**
Once a grade has been recorded, and has remained on the student's record for a period of one year after the last date of the semester in which the grade was earned, it is considered permanent and changes will not be permitted. Students must follow the Academic Grievance Policy in the student handbook for grade change requests.
- **Repeating Courses**
Students receiving a grade below C (2.0) may be permitted to repeat the course once; twice, if approved by the instructor and department. In computing the GPA, only the grade and credit hours of the last attempt are included in the computation; however, all earlier attempts remain on the transcript. **Please note that students may not receive Title IV aid for any second or subsequent repetition of a passed course. Subsequent repetition of a passed course may not be counted toward the student's enrollment status for Title IV purposes.**

Madonna University does not guarantee that a course will be offered in the future. Therefore, students will not be eligible to repeat courses no longer offered.

Quantitative

- **Completion Rate (Pace)**
A student must complete at least 67% of all semester hours attempted. This 67% completion rate maintains a pace of progression that ensures completion of the academic credential within the maximum time frame allowed. Pace of progress is calculated by dividing cumulative hours you have successfully completed by the cumulative hours you have attempted.

Satisfactory academic progress for all financial aid programs is based on earning 67% of the total number of semester hours attempted each semester with a minimum 2.0 GPA. "Attempted credits" are defined as any credits you remain enrolled in after the add/drop period each semester. Credits "earned" or "completed" with satisfactory progress are those courses in which a letter grade is received. The number of credits you complete with a grade of "Incomplete(I)" and for audited classes will not count toward your minimum satisfactory academic requirement of 67% completed.

Satisfactory Progress Chart		
Status	Attempted Credits	Completed Credits (67%)
Full-Time	18+	12+
Full-Time	15	10
Full-Time	13	9
Full-Time	12	8
Three-quarter time	11	7.5
Three-quarter time	9	6
Half time	8	5.5
Half time	7	5
Half time	6	4
Less than half time	5	3.5
Less than half time	3	2

Semester GPA must be 2.0 with 67% completion rate to make satisfactory academic progress.

- **Maximum Time Frame**

An undergraduate student must complete his or her program in a period of time no longer than 150% of the school's published program length. Madonna University will measure the progress of all students in attempted semester credits taken at Madonna University. An "attempted semester hour" is defined as any semester hour the student remains enrolled in AFTER the add/drop period. Using the 150% limit, students pursuing a bachelor degree are ineligible for financial aid after 180 attempted semester hours (credits). A student enrolled in a certificate program may attempt a maximum 150% of the published length of that individual's program (measure in credits) according to the Undergraduate Catalog. (All ESL courses may be excluded from the 150% limit.) Once this limit has been reached, no further financial aid can be received. The maximum time frame includes semester hours attempted at Madonna University during all periods of enrollment in which the student did or did not receive financial aid. The maximum time frame also includes evaluated semester hours from prior colleges which meet program requirements of the student's current academic objective as determined from official transcripts.

This is required for all students with a prior bachelor degree who are seeking loan eligibility. If the student's total credits equal or exceed the maximum time frame of 150% (equivalent to 180 attempted credits for a bachelor's degree), his/her eligibility for financial aid will be terminated.

Formula to Determine a Student's Total Credits for Financial Aid

Total attempted semester hours (credits)

at Madonna University

LESS

All ESL credits

PLUS

Credits transferred in from prior colleges which meet program requirements of the student's major

EQUALS

TOTAL CREDITS TO BE COUNTED TOWARD MAXIMUM TIME FRAME

At 180 attempted credits the student is no longer eligible for financial aid at a four year institution (except by petition.)

Failure to Make Satisfactory Academic Progress for Financial Aid

- The Financial Aid Office will send letters at the end of each semester, after grades are evaluated, to students who fail to maintain Satisfactory Academic Progress. The summer session is considered a semester, and grades are evaluated in the same manner as fall and winter semesters.

SAP Procedure

- Satisfactory Academic Progress for all students must be evaluated whether or not financial aid was received or applied for. Listed below are the stages for SAP:

Making Progress

Students with no previous academic history at Madonna University or those in good standing are assigned a "Making Progress" status.

Financial Aid Warning

Students who fail to meet SAP standards are immediately assigned to the "Financial Aid Warning" status. Students will receive a "financial aid warning" letter the first time they have experienced academic difficulty which results in not meeting the SAP standards. The letter will remind them of the minimum requirements for their aid programs. *Students will be eligible to receive federal aid for only one semester in a warning status.* These students are notified that their records will be checked again at the end of

the semester and that further action will be taken if they do not meet SAP standards at that time.

Financial Aid Suspension

Students will be sent a financial aid suspension letter if, at the end of the warning semester, they continue to not meet SAP standards. Students may only receive aid for one semester under the "warning" status. In order to reestablish aid a student must meet the minimum SAP standards or successfully appeal through the Financial Aid SAP Appeal Process.

Reinstatement of Financial Aid Eligibility

Students who fail to meet satisfactory academic progress standards in one semester will receive one subsequent semester of aid while in

Financial Aid Warning. At the end of the warning period, a student who still has not met the standards will be in a **Financial Aid Suspension** status for the next enrolled semester. The student's federal, state, and institutional aid is terminated at this point and is not reinstated unless the student subsequently meets the required standards or appeals successfully.

- **Loss of eligibility due to lack of SAP**

A student who has lost eligibility to participate in federal or state student aid programs for reasons of academic progress may regain eligibility by enrolling at his/her own expense and demonstrating that he/she is capable of completing a semester without any failures, incompletes, withdrawals, and showing the ability to complete his/her degree requirements complying to financial aid SAP standards. Students seeking to regain eligibility may do so by submitting an appeal for reinstatement. The mere passage of time will not restore eligibility to a student who has lost eligibility for failure to make satisfactory progress.

Students who have been academically dismissed from the university, but who are subsequently given permission to re-enroll, are not automatically eligible to continue to participate in federal, state, or institutional aid programs.

- **Financial Aid Satisfactory Academic Progress Appeal process:**

To appeal an unsatisfactory progress status, a student should write a letter of petition for reinstatement or continuation of financial aid as part of the Special Academic or Administrative Student Request process and submit it to the Office of Financial Aid. The disqualified student must include written explanation of reasons for petition, along with corrective action to be taken as applicable, and attach documentation to support his/her case. Subsequent review and a determination will be made based upon several factors, including federal and state regulations, the student's academic and financial aid history, and the student's clearly stated and documented extenuating circumstances. Examples of extenuating circumstances include:

- death of an immediate family member,

- injury or illness of the student, or
- other special circumstances as appropriate.

The student will be advised in writing of the decision. If dissatisfied with that decision, the student may request that his/her Petition be submitted for further review by the Financial Aid Appeals Committee by completing the Special Academic Request form from the Office of the Registrar. Once determined, the Financial Aid Appeals Committee's recommendation is referred to the Executive Vice President for Enrollment Management and University Advancement, whose decision is final. The student will be notified in writing of the final decision regarding the appeal. ***Students who believe their financial aid status (WARNING or SUSPENSION) has been determined in error should contact the Office of Financial Aid immediately to discuss their situation and to determine if an error has been made.***

Other SAP Factors

- **Changing Programs of Study. Transfer Credit:** A student transferring from one program to another or transferring into the university is subject to SAP standards. A student may be awarded transfer credits for the common courses between the program the student has withdrawn from and the program the student will be joining. Transfer credits received will not be included in the calculation of the student's GPA (unless current student changing program); attempted courses, withdrawals and transfer-in hours, except Incompletes, at the university are counted toward the 150% eligibility SAP-status of student. All requests for program changes must go to the Registrar's Office.
- **Enrolling in a Second Program of Study:** A student may request a Second Program of Study by notifying the Registrar's Office in conjunction with meeting with the Office of Undergraduate Student Advising and Success. Students enrolling in two different programs will be subject to the same SAP standards and must comply with the qualitative and quantitative aspects.

Academic Forgiveness

Students who are readmitted or seeking readmission to work toward their initial baccalaureate degree at Madonna University may request to have their previous academic record reviewed if they:

- have been out of school for at least five years, **or**
- have completed an associate degree since leaving the University.

A committee consisting of the Registrar, a member of the appropriate academic department, and a third member representing the request, make a decision, and inform the student. If the request is approved, **all previous grades will be excluded from the cumulative GPA.** The class record remains on the transcript; only the GPA is deleted. **Only credits for classes which received a grade of C (2.0) or better, or S grades, will count toward graduation.** A record will be forgiven only once and is irrevocable. Classes forgiven will not be counted in the hours required for degrees with distinction.

ACADEMIC STANDING PROCESS OVERVIEW

To help ensure academic progress, students should regularly monitor their records in their MyPortal account and consult with their advisor/mentor. The Registrar reviews student records at the end of each semester and when faculty submit grade changes. Based on this review and regardless of formal notice, the student's academic standing will be updated accordingly.

CURRENT ACADEMIC STANDING	RESULTS OF SEMESTER		NEW ACADEMIC STANDING
GOOD ACADEMIC STANDING	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA ABOVE 2.0	→	GOOD ACADEMIC STANDING
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA ABOVE 2.0	→	ACADEMIC WARNING
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA BELOW 2.0	→	ACADEMIC PROBATION
	STUDENT TAKES 6+ CREDITS; RECEIVES FAILING GRADES FOR ALL	→	ACADEMICALLY RECESSED*
ACADEMIC WARNING	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA ABOVE 2.0	→	GOOD ACADEMIC STANDING
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA ABOVE 2.0	→	ACADEMIC WARNING
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA BELOW 2.0	→	ACADEMIC PROBATION
	STUDENT TAKES 6+ CREDITS; RECEIVES FAILING GRADES FOR ALL	→	ACADEMICALLY RECESSED*
ACADEMIC PROBATION	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA ABOVE 2.0	→	GOOD ACADEMIC STANDING
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA BELOW 2.0	→	FINAL PROBATION
	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA BELOW 2.0	→	FINAL PROBATION
	STUDENT TAKES 6+ CREDITS; RECEIVES FAILING GRADES FOR ALL	→	ACADEMICALLY RECESSED*
FINAL PROBATION	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA ABOVE 2.0	→	GOOD ACADEMIC STANDING
	SEMESTER GPA ABOVE 2.0 & CUMULATIVE GPA BELOW 2.0	→	FINAL PROBATION
	SEMESTER GPA BELOW 2.0 & CUMULATIVE GPA BELOW 2.0	→	ACADEMICALLY RECESSED*
	STUDENT TAKES 6+ CREDITS; RECEIVES FAILING GRADES FOR ALL	→	ACADEMICALLY RECESSED*

NOTES ON ACADEMIC STANDING: Academic standing only changes at the end of a semester. Receiving below a 2.0 GPA in any semester results in a hold being placed on a student's account. This hold may ONLY be removed after the student meets with their Success Coach. More information regarding Academic Standing can be found in the Undergraduate Catalog.

*Academically Recessed students are unable to continue at Madonna University for a minimum of one semester. Students can apply through the [Reinstatement process](#) immediately but may not be eligible to reenroll until the subsequent semester.

University Policies • Student Records

Address Change

It is the responsibility of the student to inform the University of any address change by updating online his/her student record or by completing a change of address form at the Office of the Registrar. Mail returned to the University because of an address change will not defer the assessment of program adjustment and late penalty charges.

Name Change

Students who wish to have their name changed on their office records must complete a change of name form at the Office of the Registrar. A copy of the official authorization of change must be provided when the completed form is submitted (e.g., marriage license, court order, passport).

Social Security Number Change

It is the responsibility of the student to inform the University of a correction to an erroneous social security number. A change of social security number form is available at the Office of the Registrar. A signed copy of your social security card is required before the form can be processed.

Grade Reports and Transcripts

A report of the final grade in each course and the student's grade point average for the semester and unofficial transcripts are available online through MYPortal.

Transcripts are issued within 3 business days after a signed request is received. Requests for transcripts must be in writing and require a fee (see Tuition and Fees section).

STUDENT RECORDS POLICIES AND PROCEDURES FOR MADONNA UNIVERSITY

(REVISED SEPTEMBER 2000 IN COMPLIANCE WITH THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974)

PROCEDURE TO INSPECT EDUCATION RECORDS

Madonna University's policy with regards to student records follows the "Family Educational Rights and Privacy Act of 1974" (20 USCS Section and 1232 g) and is set out in brief form as follows: students have the right to inspect their records: the institution will comply with the student's request for the information within 45 days after the request has been filed; confidential information pertaining to students will not be disclosed to any person, organization, or agency outside the University without the written authorization of the student, except: 1) in compliance with a court order; 2) when a parent or legal guardian of any student under 18 years of age may request to view the dependent's records; 3) directory information which is public information.

LIMITATION ON RIGHT OF ACCESS

Excluded from inspection by students of the institution are the following: parental financial records; confidential letters and statements of recommendation filed before January 1, 1975; and confidential recommendations solicited under a waiver of the right-of-future-access.

Records excluded from the provisions of the Act are: personal notes of teachers and administrators in the sole possession of the maker, not accessible or revealed to any other person except a substitute; law enforcement records; employee records of individuals employed by the educational institution; and medical and psychiatric reports or related professional files made in connection with treatment of the student.

REFUSAL TO PROVIDE COPIES

Madonna University does not deny students access in educational records upon written request. Madonna University reserves the right to deny copies of records, including transcripts, not required to be made available by FERPA in the following situations:

1. The student lives within commuting distance of Madonna University.
2. The student has an unpaid financial obligation to the University (under certain conditions).
3. There is an unresolved disciplinary action against the student.
4. The education record requested is an examination or set of standardized test questions.

DISCLOSURE OF EDUCATION RECORDS

Madonna University will disclose information from a student's education records only with the written consent of the student, except that records may be disclosed without consent when the disclosure is:

1. To school officials who have a legitimate educational interest in the records
2. To officials of another school in which the student seeks or intends to enroll, upon student's request.
3. To certain officials of the U. S. Department of Education, the Comptroller General, and state and local educational authorities, in connection with audit or evaluation of certain state or federally supported education programs.
4. In connection with a student's request for or receipt of financial aid to determine the eligibility, amount of conditions of the financial aid, or to enforce the terms and condition of the aid.
5. To state and local officials or authorities if specifically required by a state law that was adopted before November 19, 1974.
6. To organizations conducting certain studies for or on behalf of the University.
7. To accrediting organizations to carry out their functions.
8. To parents of an eligible student who is claimed as a dependent for income tax purposes.
9. To comply with a judicial order or a lawfully issued subpoena.
10. To appropriate parties in a health or safety emergency
11. To designated attorneys or legal consultants hired by the University.
12. To individuals requesting directory information so designated by the University. The information may include name, date of graduation, major field of study, dates of enrollment, and participation in officially recognized activity (sports, degrees, and awards).

13. As the result of any disciplinary proceeding conducted by the University against an alleged perpetrator of a crime of violence to alleged victim of that crime.
14. To senior federal justice officials with a court order in a terrorist investigation.
15. Students may request that information not be provided to individuals by filing a written request with the Office of the Registrar.

RECORD OF REQUESTS FOR DISCLOSURE

Madonna University will maintain a record of all requests for and/or disclosures of information from a student's education records. The record will indicate the name of the party making the request, any additional party to whom it may be disclosed, and the legitimate interest the party had in requesting or obtaining the information. The record may be reviewed by the eligible student.

CORRECTION OF EDUCATION RECORDS

Students have the right to ask to have records corrected that they believe are inaccurate, misleading, or in violation of their privacy rights. Following are the procedures for the correction of records:

1. A student must request in writing to the Registrar of Madonna University to amend the education records relating to the student. In so doing, the student should identify the part of the record to be amended and specify why the student believes it is inaccurate, misleading, or in violation of his or her privacy rights.
2. Within a reasonable period of time after receipt of the request to amend, Madonna University may comply with the request, or it may decide not to comply. If it decides not to comply, Madonna University will notify the student of the decision and advise the student of his or her right to a hearing to challenge the information believed to be inaccurate, misleading or in violation of the student's privacy rights.
3. Upon the student's written request for a hearing, Madonna University will arrange for the hearing, and notify the student, reasonably in advance, of the date, place, and time of hearing.
4. The hearing will be conducted by a hearing officer who is a disinterested party; however, the hearing officer may be an official of the institution. The student shall be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend the student's education records. The student may be assisted by one or more individuals, including an attorney, but must inform the hearing officer at least two days prior to the hearing.
5. Madonna University will prepare a written decision based solely on the evidence presented at the hearing. The decision will include a summary of the evidence presented and the reason for the decision.
6. If Madonna University decides that the information is inaccurate, misleading, or in violation of the student's right of privacy, it will amend the record and notify the student, in writing, that the record has been amended.
7. If Madonna University decides that the challenged information is not inaccurate, misleading, or violation of the student's right of privacy, it will notify the student that he or she has the right to place in the record a statement commenting on the challenged information and/or a

statement setting forth reasons for disagreeing with the decision.

8. The statement will be maintained as part of the student's education records as long as the contested portion is maintained. If Madonna University discloses the contested portion of the record, it must also disclose the statement.

University Policies • Student Affairs

Students are responsible for knowledge of any authorized changes in policy, regulations, and procedures that may be implemented during the academic year. Please refer to the Madonna Student Handbook for more comprehensive information.

Children

Because of insurance, safety, and fire regulations, University policies prohibits students from bringing children to classes, or leaving them unattended in any area of the building, including the University Center. Child care can be arranged through St. Mary Child Care Center, (734)-793-4600, as part of their regular program.

Dress Code

When on campus, students are expected to exercise good judgement and propriety in wearing clothing appropriate to the academic setting.

Drives and Solicitation of Funds

Individual students, staff, or organizations are not permitted to operate stores or conduct sales on campus. Nor shall anyone solicit funds or organize and participate in fundraising drives for any reason without first obtaining approval from the University Advancement Department.

Madonna OneCard ID

University student identification cards can be obtained by stopping in Room 1201 to get a picture taken at the time of first registration. The Madonna OneCard will arrive at the student's home address and must be activated, following instructions on the card. A lost ID card can be replaced for \$10.00. The ID card should be carried at all times; it is used whenever identification is necessary, including when using the MU library or Writing Center, and must be presented when requested by a University staff member or Public Safety Officer.

Madonna University Alumni

All graduates are considered members of the Madonna University Alumni Association. To ensure you continue receiving information after you graduate, update your address, telephone, and email with the Alumni Office.

Alumni may attend social and fundraising events, receive the Alumni E-News, join us on Facebook, Linked In, and Twitter, and stay informed about developments at the University.

Benefits include the graduate program tuition discount (See the Graduate Catalog), ongoing use of your my.madonna.edu email account and your Handshake account (job search platform), access to the Library and the computer laboratories, and more.

Graduating seniors are encouraged to celebrate their graduation by participating in the Alumni Spirit Tassel program: the tassel is worn on your mortarboard during the commencement ceremony. Tassels are available for purchase year-round in the Alumni Office.

For more information,
contact the Office of Alumni Relations at (734)-432-5811 or
email alumni@madonna.edu.

Parking Regulations

Students may use the parking lots, according to Parking Policy and Traffic Regulation rules. Students are expected to follow any parking restrictions regarding reserved parking for the disabled or for designated purposes. There is no parking on the grass or anywhere in the inner campus. Parking violators will be ticketed and/or stickered.

Prohibitions

Students are prohibited from carrying weapons or explosives, from gambling or using narcotics, drugs, and alcoholic beverages on campus. Madonna University recognizes its duty to uphold the laws of the State of Michigan. Students are reminded that violation of these laws may be considered a misdemeanor or a felony. The University will not condone the abuse of the law or of persons.

The University acknowledges, however, that alcohol and drug dependence is an illness and may make treatment recommendations in lieu of or in addition to penalties.

To promote a healthy environment, all buildings of the campus are smoke-free.

Respect for Property

Damage caused by students to University property will result in disciplinary action, as well as financial assessment for replacement or repairs.

Student Code of Conduct

See the Madonna University Student Handbook, on the University Portal at *Home>Student Handbook*.

Course Planning: First Things First

Don't go it alone! Meet with your Success Coach/Faculty Advisor for help in deciding which courses to take each semester. Use the four "first things" listed here to prepare for that meeting.

FIRST, as a First-Year student, and into the Sophomore year, select only 1000- and 2000-level courses. By your Junior year, you should be moving into 3000- and 4000-level courses.

SECOND, check course prerequisites (listed in Section III: Course Descriptions) as you plan course sequencing. Course prerequisites are often other courses, but sometimes other matters, such as program admission. If your major courses have a program admission process (see its listing in the Plans of Study section), check how far in advance of course registration the admission processes must occur.

THIRD, plan for each semester to include courses that count in General Education or the University Core, Goals 1 through 6, and also courses that apply to your chosen major. At the beginning, if you are an "exploring student", then choose elective courses that let you explore some possible majors.

FOURTH, plan your course schedule before you plan your work schedule. In planning, school should come first.

And, don't forget to check the Four-Year Cycle of Courses on the Madonna website. From the home page, select **ACADEMICS > ADVISING**, then on the upper right look for the link labeled Four-Year Cycle of Courses.

Semester FALL _____	Semester WINTER _____	Semester SUMMER _____

Semester FALL _____	Semester WINTER _____	Semester SUMMER _____

Semester FALL _____	Semester WINTER _____	Semester SUMMER _____

Semester FALL _____	Semester WINTER _____	Semester SUMMER _____

Section II:

Learning Goals

Core Curriculum

Plans of Study

Academic Learning Goals

Liberal Arts Foundation (Goals 1-9)

Goal 1-Written & Spoken Communication

Written Communication is the development and expression of ideas in writing. Written communication involves learning to work with many genres and styles. It can involve different writing technologies, and mixing texts, data, and images. Written communication abilities develop through iterative experiences and communications.

Spoken Communication is a prepared, purposeful presentation designed to increase knowledge, to foster understanding, or to promote change in the listeners' attitudes, values, beliefs, or behaviors.

- 1.1 Demonstrate the ability to write clear, effective English prose.
- 1.2 Express ideas clearly and effectively in spoken form using effective rhetorical strategies.

Goal 2-Intercultural Knowledge

Intercultural Knowledge involves the ability to think critically, creatively, and analytically while exploring the relationship of contemporary and historical events and issues in a variety of cultural contexts.

- 2.1 Appreciate another culture in relation to its history, values, politics, communication styles economy, or belief and practices.
- 2.2 Describe the stages of human civilization as expressed through the creative arts.
- 2.3 Interpret the Humanities as they are expressed in their cultural richness and ethnic diversity.

Goal 3-Civic and Global Identity

Civic and Global involves a critical analysis of, and an engagement with complex, interdependent global systems and legacies (such as natural, physical, social, cultural, economic, and political) and their implications for people's lives.

- 3.1 Explain how historical and/or philosophical investigation of human experience reveals multiple views of the human condition.
- 3.2 Describe international problems, achievements, and aspirations of the U.S. and other nations and cultures.
- 3.3 Evaluate the effect of global interconnectedness on individuals, communities, businesses, and societies.
- 3.4 Participate actively and productively as a team member and leader in a chosen area of community service for the common good.
- 3.5 Value responsible citizenship and civic engagement.

Goal 4-Social Sciences

Social Sciences involve the study of the behavior and actions of individuals, groups, and institutions within larger social, economic, political, and geographical contexts.

- 4.1 Describe the ways in which the individual is affected by the total environment.
- 4.2 Analyze social problems confronting modern pluralistic society and the various persons and community strategies for dealing with these.
- 4.3 Analyze the elements which contribute to effective interpersonal relationships.

Goal 5-Mathematics

Mathematics involves a competency and comfort in working with numerical data. It also involves the ability to reason and solve quantitative problems form an array of authentic contexts.

- 5.1 Comprehend the concepts, language, and tools of mathematics and develop the ability to reason using mathematical techniques.
- 5.2 Analyze and solve complex problems.

Goal 6-Scientific Inquiry

Scientific Inquiry involves the acquisition of the detailed knowledge of the natural sciences, hands-on experience with how science is conducted, what science can and cannot tell us about the universe, and the relationship between science and society.

- 6.1 Comprehend scientific ideas and understand how scientists study the natural; world.
- 6.2 Comprehend the scientific method and its application to problem solving and discovery.
- 6.3 Use scientific evidence to formulate explanations.
- 6.4 Analyze the reciprocal impact of science and society.

Goal 7-Literature and Informational Fluency

Literature and Informational Fluency involves the interpretation and analysis of texts to understand ideas, values, and identities in various spatial, cultural, and temporal contexts. It also includes the ability to know when there is a need for information, to be able to identify, locate, evaluate, and effectively and responsibly use and share that information for the task at hand.

- 7.1 Critically assess how literature through the creative power of language evokes complex realities in response to questions of human worth, human purpose, and human potential.
- 7.2 Communicate, organize, and synthesize information from sources to achieve a specific purpose.
- 7.3 Present in-depth information from relevant sources representing various points of view/approaches.

Goal 8-Religious Values

Religious Values involves the examination of diverse religious perspectives including the Franciscan heritage and values as they relate to personal, professional, and societal questions and issues.

- 8.1 Explain the significance of religious beliefs and practices for understanding the depth dimension of the human experience.
- 8.2 Describe the values, questions, and expressions of truth as exemplified in the Catholic Christian tradition as well as other religious traditions.
- 8.3 Express how Franciscan values can be a bridge between faith, contemporary science, social thought, and multicultural appreciation.

Goal 9-Diverse Perspectives

Diverse Perspectives involves an understanding of human interactions, including cultural, intercultural, and ethnic influences that shape worldviews, civic engagement, and contemporary leadership.

- 9.1 Recognize how diverse perspectives shape perceptions, behaviors, communications, beliefs, values, and politics.
- 9.2 Articulate a complex understanding of contributions made by individuals from diverse and/or underrepresented populations.
- 9.3 Make reasoned decisions based on respect and appreciation for diverse perspectives.

Program Major and Career (Goal 10)

Goal 10-Personal and Career Development

Achieve individual educational goals for personal enrichment and career development.

- 10.1 Master a significant body of knowledge and skills.
- 10.2 Read effectively, think critically, write competently for the professions, and communicate clearly in group situations as well as in individual presentation.
- 10.3 Commit to life-long learning with the aim of improving knowledge, skills, and competence.

CORE CURRICULUM FOR ASSOCIATE DEGREE

For an associate degree, a minimum of 60 semester hours, including a major, a minimum of **21 semester hours** in the MU Core, and a minimum of **3 semester hours** in MU Signature Courses, as outlined below, must be completed. (See also page 12, "Academic Programs".)

UNIVERSITY REQUIREMENT

___ 2 s.h. UNV 1020 Transition to Higher Education
For all students under age 24 transferring in fewer than 13 s.h. of college credit (excluding Advanced Placement, dual enrollment, IB and early college credits). Students who complete a semester of Intensive English as a Second Language are excused from this requirement.

MU Core Courses

Goal 1 – Written and Spoken Communication

CC-1A* Written Communication, CHOOSE TWO:

___ 6 s.h. WRT 1010 College Composition I (3 s.h.)
WRT 1020 College Composition II (3 s.h.) or
ESL 4230** Research Paper Writing (3 s.h.)

**Time-limit for completing Goal 1: Writing course requirements must be completed within a degree-bound student's first three-semester of attendance.*

***For non-native speakers of English only.*

Goal 2 – Intercultural Knowledge

CC-2 CHOOSE ONE:

___ 3 s.h. AHIS 2020 Monuments, Media and Culture in World Art (3 s.h.)
ENG 2230 World Literature (3 s.h.)
HUM 2040 Expressive Thinking in the Arts and Humanities (3 s.h.)
MUS 2020 Music Through the Ages (3 s.h.)

Goal 3 – Civic and Global Identity

CC-3 CHOOSE ONE:

___ 3 s.h. HIS 1010 World Problems (PSC) (3 s.h.)
INB 3140 International Business (3 s.h.)
PHL 1010 Introduction to Philosophy (3 s.h.)
PSC 1510 American Government (3 s.h.)

Goal 4 – Social Sciences

CC-4 CHOOSE ONE:

___ 3 s.h. AGE 1070 Introduction to the Aging Experience (3 s.h.)
CJ 3210 Principles of Criminology (FOR/SOC) (3 s.h.)
LAW 2100 Law, Society and Politics (PSC/SOC) (3 s.h.)
PSY 1010 General Psychology (3 s.h.)
PSY 2660 Social Psychology (3 s.h.)
SOC 1020 Introduction to Sociology (3 s.h.)
SOC 2020 Social Problems (3 s.h.)
SW 3400 Human Behavior and the Social Environment I (3 s.h.)

Goal 5 – Mathematics

CC-5 Mathematics, CHOOSE ONE:

___ 3 s.h. MTH... Any course MTH 1050 or higher

Goal 6 – Scientific Inquiry

CC-6A Scientific Inquiry, CHOOSE ONE*:

___ 3 s.h. NFS 2270 Human Nutrition (FCS) (3 s.h.)

NSC 3730.00* Science Foundations I (EDU) (3 s.h.)
NSC 3730.LB Science Foundations I Lab (1 s.h.)
BIO ... Or, any course in BIO
ESS 2040 Oceans (3 s.h.)
ESS 3290.00* Principles of Astronomy (3 s.h.)
ESS 3290.LB Principles of Astronomy Lab (1 s.h.)
NSC 3740.00* Science Foundations II (EDU) (3 s.h.)
NSC 3740.LB Science Foundations II (EDU) (1 s.h.)
CHM ... Or, any course in CHM.

**These courses include a Laboratory Science Experience.*

MU Signature Courses

Goal 8 – Religious Values

SC-8A The Madonna Heritage*, CHOOSE ONE:

___ 3 s.h. RST 1330 Survey of Christianity (3 s.h.)
RST 1500 Catholicism (3 s.h.)
RST 2990 Catholic Social Teaching for the 21st Century (PHL) (3 s.h.)
RST 3100 Franciscan Values, Social Justice, and Service (3 s.h.)

**Must be taken at Madonna University*

CORE CURRICULUM FOR BACCALAUREATE DEGREE

For a bachelor degree, a minimum of 120 semester hours, including a major, a minimum of **31 semester hours** in the MU Core, and a minimum of **12 semester hours** in MU Signature Courses, as outlined below, must be completed. (See also page 12, "Academic Programs".)

UNIVERSITY REQUIREMENT

__ 2 s.h. UNV 1020 Transition to Higher Education
For all students under age 24 transferring in fewer than 13 s.h. of college credit (excluding Advanced Placement, dual enrollment, IB and early college credits). Students who complete a semester of Intensive English as a Second Language are excused from this requirement.

MU Core Courses

Goal 1 – Written and Spoken Communication

CC-1A* Written Communication, CHOOSE TWO:

__ 6 s.h. WRT 1010 College Composition I (3 s.h.)
WRT 1020 College Composition II (3 s.h.) or
ESL 4230** Research Paper Writing (3 s.h.)

*Time-limit for completing Goal 1: Writing course requirements must be completed within a degree-bound student's first three-semester of attendance..

**For non-native speakers of English only.

CC-1B Personal and Public Communication, CHOOSE ONE:

__ 3 s.h. COM 1050 Communication Concepts and Contexts (3 s.h.)
COM 2120 Interpersonal Communication (3 s.h.)
COM 2350 Public Speaking (3 s.h.)

Goal 2 – Intercultural Knowledge

CC-2 Intercultural Knowledge, CHOOSE ONE:

__ 3 s.h. AHIS 2020 Monuments, Media and Culture in World Art (3 s.h.)
ENG 2230 World Literature (3 s.h.)
HUM 2040 Expressive Thinking in the Arts and Humanities (3 s.h.)
MUS 2020 Music Through the Ages (3 s.h.)

Goal 3 – Civic and Global Identity

CC-3 Civic and Global Identity, CHOOSE ONE:

__ 3 s.h. HIS 1010 World Problems (PSC) (3 s.h.)
INB 3140 International Business (3 s.h.)
PHL 1010 Introduction to Philosophy (3 s.h.)
PSC 1510 American Government (3 s.h.)

Goal 4 – Social Sciences

CC-4 Social Sciences, CHOOSE TWO:

__ 6 s.h. AGE 1070 Introduction to the Aging Experience (3 s.h.)
CJ 3210 Principles of Criminology (FOR/SOC) (3 s.h.)
LAW 2100 Law, Society and Politics (PSC/SOC) (3 s.h.)
PSY 1010 General Psychology (3 s.h.)
PSY 2660 Social Psychology (3 s.h.)
SOC 1020 Introduction to Sociology (3 s.h.)
SOC 2020 Social Problems (3 s.h.)

SW 3400 Human Behavior in the Social Environment I (3 s.h.)

Goal 5 – Mathematics

CC-5 Mathematics, CHOOSE ONE:

__ 3 s.h. MTH... Any course MTH 1050 or higher

Goal 6 – Scientific Inquiry

CC-6A Biological Sciences, CHOOSE ONE*:

__ 3 s.h. NFS 2270 Human Nutrition (FCS) (3 s.h.)
NSC 3730.00* Science Foundations I (EDU) (3 s.h.)
NSC 3730.LB Science Foundations I Lab (1 s.h.)
BIO ... Or, any course in BIO

CC-6B Physical Sciences, CHOOSE ONE*:

__ 3 s.h. ESS 2040 Oceans (3 s.h.)
ESS 3290.00* Principles of Astronomy (3 s.h.)
ESS 3290.LB Principles of Astronomy Lab (1 s.h.)
NSC 3740.00* Science Foundations II (EDU) (3 s.h.)
NSC 3740.LB* Science Foundations II (EDU) (1 s.h.)
CHM ... Or, any course in CHM.

*These courses include a Laboratory Science Experience. At least one of the science courses must be selected from the group that includes a 4 semester hour laboratory experience, making the requirement a total of 7 semester hours for Goal 6.

MU Signature Courses

Goal 7 Literature and Informational Fluency

SC-7 Literature and Informational Fluency, CHOOSE ONE:

__ 3 s.h. ENG 3110/3120 American Literature I or II (3 s.h.)
ENG 3500 Studies in Women's Literature (3 s.h.)
ENG 3630/3640 British Literature I or II (3 s.h.)

Goal 8 – Religious Values

SC-8A The Madonna Heritage*, CHOOSE ONE:

__ 3 s.h. RST 1330 Survey of Christianity (3 s.h.)
RST 1500 Catholicism (3 s.h.)
RST 2990 Catholic Social Teaching for the 21st Century (PHL) (3 s.h.)
RST 3100 Franciscan Values, Social Justice, and Service (3 s.h.)

*Must be taken at Madonna University

SC-8B Religious Studies, CHOOSE ONE:

__ 3 s.h. RST 1450 Survey of Western Religions (3 s.h.)
RST 1460 Survey of Eastern Religions (3 s.h.)
RST 2560 Old Testament: Torah and Historical Writings (3 s.h.)
RST 2580 New Testament: The Four Gospels (3 s.h.)

Goal 9 – Diverse Perspectives

SC-9 Diverse Perspectives, CHOOSE ONE:

__ 3 s.h. ENG 4460 Ethnic American Literature (3 s.h.)
HIS 3420 Minority Groups in America (3 s.h.)
HUM 3210 Do Animals Matter? (3 s.h.)
SOC 3120 Diversity, Discrimination and Social Justice (3 s.h.)

Plans of Study

ACCOUNTANCY

The accountancy program is designed for CPA and non-CPA track majors. Graduates of this program work for all types of organizations, including public, private, and governmental entities. Graduates may be employed in all areas of accounting, including financial, managerial, audit, tax, and systems. For students in our Dubai outreach center.

Accountancy Major: Bachelor of Science (34 s.h.)

REQUIRED MAJOR COURSES:

ACC 3050 Intermediate Accounting	4 s.h.
ACC 3400 Accounting Information Systems	4 s.h.
ACC 3580 Taxation I	3 s.h.
ACC 3610 Taxation II	3 s.h.
ACC 4050 Advanced Accounting	3 s.h.
ACC 4500 Auditing	3 s.h.
ACC 4700 Cost Accounting	3 s.h.
ACC 4730 Research Seminar	3 s.h.
FIN 3700 Life Cycle Financial Planning (FCS)	3 s.h.
MGT 4950 Business Policy	<u>3 s.h.</u>
	32 s.h.

ACCOUNTING

Accounting Minor (22 s.h.)

REQUIRED MINOR COURSES:

ACC 2010 Principles of Accounting I	3 s.h.
ACC 2020 Principles of Accounting II	3 s.h.
ACC 3050 Intermediate Accounting	4 s.h.
ACC 3410 Accounting Information Systems	3 s.h.
ACC 3590 Taxation	4 s.h.
BL 3330 Business Law I	3 s.h.
MGT 2360 Principles of Management	<u>3 s.h.</u>
	23 s.h.

Forensic Accounting Certificate of Completion (15 s.h.):

REQUIRED CERTIFICATE COURSES:

ACC 2010 Principles of Accounting I	3 s.h.
ACC 3410 Accounting Information Systems	3 s.h.
ACC 4800 *Forensic Accounting	3 s.h.
CJ 4150 Criminal Investigation (FOR)	3 s.h.
CJ 4450 Interviewing & Investigative Report Writing	<u>3 s.h.</u>
	15 s.h.

* Must be taken at Madonna University.

Notes: 1) Prerequisite to CJ 4150 and CJ 4450: CJ 1020.
2) No more than two of the courses in the certificate program will be accepted as transfer credit.

ADDICTION STUDIES

The Certificate of Completion is a credential from Madonna University. A student planning to also be certified as a State of Michigan Certified Alcohol and Drug Counselor (CADC) should meet with the Addiction Studies coordinator prior to undertaking the Madonna certificate.

Addiction Studies Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 1010 General Psychology	3 s.h.
AS 2000 Introduction to Addictions	1 s.h.
AS 3430 Dynamics of Addiction	1 s.h.
AS 3440 Addiction Studies: Family Systems	1 s.h.
AS 4840 Ethical Professional Practices (PSY/SW)	1 s.h.
Addiction Studies electives	<u>5 s.h.</u>
	12 s.h.

ALLIED HEALTH

The Allied Health major, Bachelor of Science, prepares students for rapidly expanding community-based and preventive health careers. This program emphasizes health education, community health, advocacy, and digital health communication to address critical workforce needs and national priorities in improving population health. Students learn to navigate complex health systems while promoting wellness and reducing disparities in diverse communities. Coursework integrates culturally responsive approaches, communication skills, health promotion strategies, and digital engagement techniques. With strong demand for roles such as community health workers, patient advocates, care coordinators, and health influencers, the program aligns with fast-growing allied health sectors. A flexible curriculum allows students to tailor their studies through elective clusters in areas like aging services, health education, behavioral health, care navigation, and digital health communication. Graduates are prepared for careers in hospitals, public health agencies, nonprofit organizations, schools, community programs, health technology companies, and wellness-focused digital platforms.

Allied Health Major: Bachelor of Arts (30 s.h.)

Required Major Courses:

AGE 1070 Introduction to the Aging Experience	3 s.h.
AHL 3450 Evidence Based Scholars Practice	2 s.h.
AHL 3500 Navigating the U.S. Healthcare System	3 s.h.
AHL 4070 Population Health Promotion	3 s.h.
AHL 4080 Health Communication Strategies	3 s.h.
AHL 4800 Contemporary Issues in Health Care	1 s.h.
AHL 4950 Allied Health Capstone	3 s.h.
MTE 1010 Medical Terminology	2 s.h.
MTE 2010 Introduction to Health Care Professions	2 s.h.
PSY 2450 Life-Span Developmental Psychology	4 s.h.
PSY 3020 Introduction to Motivational Interviewing	1 s.h.

PSY 3100 Health Psychology 3 s.h.

Support Courses: (18 s.h.)

BIO 2250 Basic Human Psychology 3 s.h.
COM 2120 Interpersonal Communication 3 s.h.
PHL 1550 Introduction to Ethics (3 s.h.), **or**
RST 4110 Medical Ethics (PHL) (3 s.h.) 3 s.h.
PSY 1010 General Psychology 3 s.h.
SOC 1020 Introduction to Sociology 3 s.h.
SOC 3120 Diversity, Discrimination, and Social Justice 3 s.h.

AMERICAN SIGN LANGUAGE

See listing under SIGN LANGUAGE STUDIES.

ANIMAL CRUELTY INVESTIGATION

See listing under CRIMINAL JUSTICE.

ANIMAL STUDIES

The multidisciplinary undergraduate program in Animal Studies equips students with both fundamental knowledge of zoology and animal behavior as well as in-depth understanding of individual and societal issues regarding human-animal interactions viewed from the lenses of such diverse academic fields as ethics, law and public policy, and religious studies. Through internships at local zoos, humane societies, and wildlife conservation agencies, among others, students gain practical skills needed for a broad range of professional employment opportunities in animal-related non-profit and governmental institutions. Students' marketability is further enhanced by a requirement of completing a minor complementary with their desired career path.

Animal Studies Major: Bachelor of Arts (36 s.h.)

Required Major Courses:

ANS 3020 Animal Law and Policies 3 s.h.
ANS 3030 Animals in Religion 3 s.h.
ANS 3040 Animal Ethics 3 s.h.
ANS 3050 Human-Animal Conflicts 3 s.h.
ANS 4770 Animal-Assisted Therapy and the Human/Non-Human Animal Bond (SW) 3 s.h.
ANS 4930 Internship in Animal Studies 3 s.h.
BIO 2100 Human Ecology 3 s.h.
BIO 2720 Zoology 3 s.h.
BIO 4300 Animal Behavior 3 s.h.
HUM 3210 Do Animals Matter? 3 s.h.
HUM 3410 Sustainability: Vision and Values (RST/SOC) 3 s.h.
HUM 4300 Humane Studies (SOC) 3 s.h.
36 s.h.

REQUIRED MINOR:

A minor in one of the following: Biology, Broadcast and Cinema Arts, Communication, Criminal Justice, Environmental Science for Animal Studies and Biology Majors, Graphic Design, Marketing, Political Science, Psychology, or Sociology is required with the Animal Studies major. Another minor can be selected instead, with an advisor's approval.

REQUIRED SUPPORT COURSES (17 s.h.):

BIO 1040.00 General Biology II 3 s.h.
BIO 1040.00 General Biology II Lab 1 s.h.
PHL 1010 Introduction to Philosophy 3 s.h.
MTH 2350 Probability and Statistics 4 s.h.
PSY 1010 General Psychology 3 s.h.
SOC 1020 Introduction to Sociology 3 s.h.

Human-Animal Bond Certificate of Completion (9 s.h.)

The Undergraduate Certificate in Human-Animal Bond provides applied knowledge of various aspects of human-animal bond for social workers, therapists, law enforcement officers, prison personnel, and others interested in incorporating animals into their professional activities.

REQUIRED CERTIFICATE COURSES:

ANS 4770 Animal-Assisted Therapy and the Human/Non-Human-Animal Bond (SW) 3 s.h.
HUM 3210 Do Animals Matter? 3 s.h.
PSY 1010 General Psychology 3 s.h.
9 s.h.

ART

Madonna University offers studio-based Art programs that professionally prepare graduates for visually expressive creative careers.

Art majors include Art Education, Fine Arts, and Graphic Design. Art minors are available in Art History, Fine Arts, and Graphic Design. There are two Graphic Design Minors; one is for Fine Arts Major students, and the other is for non-Art Majors. There is also a Visual Communication and Design Certificate of Completion.

Completion of all Art majors requires participation in the Senior Exhibition during Senior Seminar and presentation of a comprehensive portfolio of original artwork.

Art Education Major: Bachelor of Arts (54 s.h.)

Teaching Art, while challenging, can be a most rewarding career. The Art Education Major is also a studio-based program of study that professionally prepares artist educators to be certified as Visual Arts teachers. All facets of Fine Arts study are included, as well as coursework specific to teaching art, creativity, and imagination.

The Art Education major is completed in conjunction with the Madonna Secondary Teacher Education Program. Successful completion results in recommendation for the State of Michigan Standard Secondary Teaching Certificate with an endorsement to teach Visual Arts Education, grades K-12. As a comprehensive teaching major, a teaching minor is not required in the Art Education Program. The Visual Arts endorsement is only available on a secondary teaching certificate.

Required Major Courses:

Introductory Studio Foundations (18 s.h.)

ART 1010 Drawing Foundations for Art and Design 3 s.h.
ART 1030 Painting Foundations for Art and Design 3 s.h.
ART 1040 Ceramics Foundations for Art and Design 3 s.h.
ART 1060 Printmaking Foundations Art and Design 3 s.h.
GDA 1720 Digital Imaging **or**
GDA 1730 Digital Layout 3 s.h.
ART 3130 Photography I (JRN*) 3 s.h.
18 s.h.

Studio Concentration (9 s.h.— see choices below):

Art History Requirements (12 s.h.):

AHIS 3240 Art History: Ancient to Renaissance 3 s.h.

AHIS 3270	Art History: Renaissance to 20 th Century	3 s.h.
AHIS 3350	Asian Art: India, China, Japan	3 s.h.
AHIS 4160	Art History: 20 th Century to Contemporary or	
AHIS 4260	History of Modern Design	3 s.h.

Art Education Component (12 s.h.):

AED 3100	Visual Culture (AHIS)	3 s.h.
AED 3160	Art Education in PK-Elementary Schools (EDU)	2 s.h.
AED 3170	Art Education in Elementary Schools Field Experience	1 s.h.
AED 3800	Principles Elementary Visual Arts Education	3 s.h.
AED 3810	Principles Secondary Visual Arts Education	3 s.h.

Required studio concentration, choose from (see below): 9 s.h.

Ceramics **or**
Drawing **or**
Painting **or**
Printmaking

ART 4960	Senior Seminar	<u>3 s.h.</u>
		54 s.h.

Ceramics Concentration (9 s.h.)

ART 2040	Ceramics II (3 s.h.)
ART 3040	Ceramics III – Advanced Studio (3 s.h.)
ART 4040	Ceramics IV – Advanced Studio (3 s.h.)

Drawing Concentration (9 s.h.)

ART 2010	Drawing II (3 s.h.)
ART 3010	Drawing III – Advanced Studio (3 s.h.)
ART 4010	Drawing IV – Advanced Studio (3 s.h.)

Painting Concentration (9 s.h.)

ART 2030	Painting II (3 s.h.)
ART 3030	Painting III – Advanced Studio (3 s.h.)
ART 4030	Painting IV – Advanced Studio (3 s.h.)

Printmaking Concentration (9 s.h.)

ART 2060	Printmaking II (3 s.h.)
ART 3060	Printmaking III – Advanced Studio (3 s.h.)
ART 4060	Printmaking IV – Advanced Studio (3 s.h.)

Fine Arts Major: Bachelor of Arts (45 s.h.)

Fine artists are visionary project managers who know how to make new things happen in the world. The Fine Arts Major is a studio-based program of study that professionally prepares undergraduates for visually expressive creative work. The program develops the conceptualizing abilities, technical expertise, and imagination skills needed for exercising leadership of visually meaningful projects.

REQUIRED MAJOR COURSES:

AED 3100	Visual Culture (AHIS) or	
AHIS 3350	Asian Art: India, China, Japan	3 s.h.
AHIS 3240	Art History: Ancient to Renaissance	3 s.h.
AHIS 3270	Art History: Renaissance to 20 th Century	3 s.h.
AHIS 4160	Art History: 20 th Century to Contemporary or	
AHIS 4260	History of Modern Design	3 s.h.
ART 1010	Drawing Foundations for Art and Design	3 s.h.
ART 1030	Painting Foundations for Art and Design	3 s.h.
ART 1040	Ceramics Foundations for Art and Design	3 s.h.
ART 1060	Printmaking Foundations Art and Design	3 s.h.
ART 4960	Senior Seminar	3 s.h.

Major electives, student selects courses from this list, or courses from concentrations other

than the one selected: 9 s.h.

AHIS 4750	Studies in Art History (2-3 s.h.) (max. 9 s.h.)
GDA 3150	Photoshop (BCA/JRN) (3 s.h.)
ART 4400	Independent Studio A (2-3 s.h.)
ART 4410	Independent Studio B (2-3 s.h.)
JRN 3130	Photography I (ART) (3 s.h.)
JRN 3140	Photography II (ART) (3 s.h.)

Required studio concentration, choose from (see below): 9 s.h.

Ceramics **or**
Drawing **or**
Painting **or**
Printmaking

45 s.h.

Ceramics Concentration (9 s.h.)

ART 2040	Ceramics II (3 s.h.)
ART 3040	Ceramics III – Advanced Studio (3 s.h.)
ART 4040	Ceramics IV – Advanced Studio (3 s.h.)

Drawing Concentration (9 s.h.)

ART 2010	Drawing II (3 s.h.)
ART 3010	Drawing III – Advanced Studio (3 s.h.)
ART 4010	Drawing IV – Advanced Studio (3 s.h.)

Painting Concentration (9 s.h.)

ART 2030	Painting II (3 s.h.)
ART 3030	Painting III – Advanced Studio (3 s.h.)
ART 4030	Painting IV – Advanced Studio (3 s.h.)

Printmaking Concentration (9 s.h.)

ART 2060	Printmaking II (3 s.h.)
ART 3060	Printmaking III – Advanced Studio (3 s.h.)
ART 4060	Printmaking IV – Advanced Studio (3 s.h.)

Fine Arts Minor (21 s.h.)

REQUIRED MINOR COURSES:

AHIS 3240	Art History: Ancient to Renaissance or	
AHIS 3270	Art History: Renaissance to 20 th Century or	
AHIS 4160	Art History: 20 th Century to Contemporary	3 s.h.
ART 1010	Drawing Foundations for Art and Design	3 s.h.
ART 1030	Painting Foundations for Art and Design	3 s.h.
ART 1040	Ceramics Foundations for Art and Design	3 s.h.
ART 1060	Printmaking Foundations Art and Design	3 s.h.
	Minor electives	6 s.h.

ART 2010	Drawing II (3 s.h.)
ART 2030	Painting II (3 s.h.)
ART 2040	Ceramics II (3 s.h.)
ART 2060	Printmaking II (3 s.h.)
GDA 3150	Photoshop (BCA/JRN) (3 s.h.)
JRN 3130	Photography I (ART) (3 s.h.)
JRN 3140	Photography II (ART) (3 s.h.)

21 s.h.

Art History Minor (21 s.h.)

The Art History Minor provides focused study of humanity's most powerful art making endeavors from ancient times to the present day. Students learn to analyze, research, and interpret artwork.

Our Art History courses include hands-on learning components that address artistic concepts with real world materials and techniques. Art historical investigation, collaboration, and presentations are emphasized, with field work in local art galleries and museums. The Minor is completed with a research project and presentation of findings.

REQUIRED MINOR COURSES (21 s.h.):

AHIS 3100	Visual Culture (AED*)	3 s.h.
AHIS 3240	Art History: Ancient to Renaissance	3 s.h.
AHIS 3270	Art History: Renaissance to 20 th Century	3 s.h.
AHIS 3350	Asian Art: India, China, and Japan	3 s.h.
AHIS 4160	Art History: 20 th Century to Contemporary	3 s.h.
AHIS 4260	History of Modern Design	3 s.h.
AHIS 4750	Studies in Art History	3 s.h.

NOTE: When a student with an Art major also completes an Art History Minor, all Art History courses are counted only in the Minor. Other Art Department courses must be selected in consultation with an Art Department advisor to complete the 45 s.h. required in the Major. These course selections must be documented with a Substitution of Course Form signed by the advisor and submitted to the Office of the Registrar. See the topic When Courses May Satisfy More Than One Requirement in this catalog.

*When planning which courses to take to satisfy the MU Core Curriculum requirement, students should note that AHIS 2020 is NOT for Fine Arts majors.

Graphic Design Major: Bachelor of Arts (45 s.h.)

The Graphic Design major leads to career development as a professional graphic designer. The major builds visual communication and leadership skills sought by employers across professional, business, and organizational sectors.

Students learn visual forms of communication with print pieces such as collateral design, branding identity, typography, package design, environmental design, information graphics, and promotional advertising. In addition, web design, user experience and user interface design will be explored, along with the chance to practice digital animation skills if desired. Advanced coursework includes student level creation of comprehensive, collaborative design solutions from concept to final project.

Throughout the program guest professionals and alumni speakers visit to share information. Opportunities for student employment, internships, and freelance work contribute real-world client experiences that strengthen students' portfolios.

Portfolio presentation with Graphic Design advisor is required for skill set assessment prior to start of first semester taking courses in the Graphic Design major.

REQUIRED MAJOR COURSES:

ART 4960	Senior Seminar	3 s.h.
GDA 1710	Graphic Design I (JRN)	3 s.h.
GDA 1720	Digital Imaging	3 s.h.
GDA 1730	Digital Layout	3 s.h.
GDA 2710	Graphic Design II	3 s.h.
GDA 3150	Photoshop (BCA/JRN)	3 s.h.
GDA 3740	Graphic Design III	3 s.h.
GDA 3800	Web Design for Graphic Designers	3 s.h.
GDA 3840	UX/UI Design	3 s.h.
GDA 4740	Graphic Design IV	3 s.h.

Art History (choose 2 courses) 6 s.h.

AHIS 3240	Art History: Ancient to Renaissance (3 s.h.)
AHIS 3270	Art History: Renaissance to 20 th Century (3 s.h.)
AHIS 3350	Asian Art: India, China, Japan (3 s.h.)
AHIS 4160	Art History: 20 th Century to Contemporary (3 s.h.)
AHIS 4260	History of Modern Design (3 s.h.)

Art Foundations (choose 2 courses) 6 s.h.

ART 1010	Drawing Foundations for Art & Design (3 s.h.)
ART 1030	Painting Foundations for Art & Design (3 s.h.)
ART 1060	Printmaking Foundations Art & Design (3 s.h.)

Major Electives (choose 1 course, 3 s.h.) 3 s.h.

ART 3130	Photography I (JRN*)
ART 3140	Photography II (JRN*)
ART 4400	Independent Studio A (3 s.h.)
ART 4410	Independent Studio B (3 s.h.)
GDA 2100	Illustration (3 s.h.)
GDA 3210	Motion Graphics (BCA) (3 s.h.)
Any AHIS course numbered 3100 or higher (3 s.h.)	
Any Drawing, Painting, Ceramics or Printmaking (3 s.h.)	

45 s.h.

**When planning which courses to take to satisfy the MU Core Curriculum requirement, students should note that AHIS 2020 is NOT for Graphic Design majors.

Graphic Design for Fine Arts Majors, Minor (21 s.h.)

The Graphic Design minor offers Fine Arts major students electronic art media opportunities. This minor also provides professional preparation for art related employment in business and organizations. Students focus on visual forms of communication, including collateral design, logo work, typography, and advertising, package, and web design. Program culminates in a collaborative branding experience from concept to final project.

REQUIRED MINOR COURSES:

GDA 1710	Graphic Design I (JRN)	3 s.h.
GDA 1720	Digital Imaging or	
GDA 1730	Digital Layout	3 s.h.
GDA 2710	Graphic Design II	3 s.h.
GDA 3740	Graphic Design III	3 s.h.
GDA 4740	Graphic Design IV	3 s.h.
Minor electives:*		6 s.h.
GDA 2050	Typography (3 s.h.)	
GDA 2100	Illustration (3 s.h.)	
GDA 3150	Photoshop (BCA/JRN) (3 s.h.)	
GDA 3800	Web Design for Graphic Designers (3 s.h.)	
JRN 3130	Photography I (ART) (3 s.h.)	
JRN 3140	Photography II (ART) (3 s.h.)	

21 s.h.

*Minor electives are to be chosen from graphic design major electives not used in the Fine Arts major. Consult with an Art Department advisor before making course selections. One cooperative education placement is highly recommended.

Graphic Design for Non-Art Majors, Minor (27 s.h.)

The Graphic Design minor builds visual communication skills that are sought by employers in business, professional, and organizational settings. Introductory courses develop art and design foundations. Students then focus on visual communication, including logo work, environmental graphics, typography, advertising design, package design, and information design. Program completion includes creation of a portfolio of graphic design artwork.

REQUIRED MINOR COURSES:

ART 1010	Drawing Foundations for Art and Design	3 s.h.
ART 1030	Painting Foundations for Art and Design	3 s.h.

ART 1060	Printmaking Foundations for Art and Design	3 s.h.
GDA 1710	Graphic Design I (JRN)	3 s.h.
GDA 1720	Digital Layout or	
GDA 1730	Digital Imaging	3 s.h.
GDA 2710	Graphic Design II	3 s.h.
GDA 3740	Graphic Design III	3 s.h.
GDA 4740	Graphic Design IV	3 s.h.
AHIS 4260	History of Modern Design	<u>3 s.h.</u>
		27 s.h.

Visual Communication and Design Certificate of Completion (15 s.h.)

This certificate enhances communication design skills for those in project management, organizational leadership, administrative support, or small businesses. Introductory coursework develops design skills and elective choices foster specific areas of expertise, from maximizing desktop publishing abilities to writing effective press releases.

All Visual Communication and Design Certificate students begin with GDA 1710 Graphic Design I. Students then choose GDA 1720 Digital Imaging or GDA 1730 Digital Layout before completing GDA 2710 Graphic Design II. Individual certificate programs are refined with selection of two elective courses that best suit their interests in further developing art, design, or writing expertise.

Portfolio presentation with Graphic Design advisor is required for skill set assessment prior to start of first semester in the Visual Communication Design Certificate of Completion.

CERTIFICATE REQUIREMENTS:

GDA 1710	Graphic Design I (JRN)	3 s.h.
GDA 1720	Digital Imaging (3 s.h.) or	
GDA 1730	Digital Layout (3 s.h.)	3 s.h.
GDA 2710	Graphic Design II	3 s.h.
	Certificate Electives:	6 s.h.
ART 1030	Painting Foundations for Art and Design (3 s.h.)	
GDA 3740	Graphic Design III (3 s.h.)	
GDA 3150	Photoshop (BCA/JRN) (3 s.h.)	
JRN 2050	Public Relations Writing (3 s.h.)	
JRN 3130	Photography I (ART) (3 s.h.)	
JRN 3570	Editing and Design (3 s.h.)	
WRT 2440	Technical Writing (3 s.h.)	
WRT 3440	Advanced Technical Writing (3 s.h.)	
		15 s.h.

ART HISTORY

See listing under ART.

Artificial Intelligence

Applied Artificial Intelligence, Certificate of Completion: (12 s.h.)

The Applied Artificial Intelligence (AI), Certificate of Completion is a highly technical program designed to provide computer science students with the extensive, practical knowledge and hands-on experience they need to pursue roles in AI, such as AI specialists, machine learning engineers, data scientists, and more. The program emphasizes practical applications and responsible practices in AI.

REQUIRED CERTIFICATE COURSES:

AI 2010	Introduction to Generative Artificial Intelligence	3 s.h.
AI 3010	Career Navigation and Exploration in Applied Artificial Intelligence	3 s.h.
AI 4010	Predictive Modeling in Artificial Intelligence	3 s.h.
AI 4020	Prescriptive Artificial Intelligence	3 s.h.

REQUIRED SUPPORT COURSE (12 s.h.):

CSC 2500	Programming for Everyone I	3 s.h.
CSC 2550	Programming for Everyone II	3 s.h.
CSC 3610	Data Structures	3 s.h.
CSC 4960	Capstone Project	3 s.h.

ASL EDUCATION

See listing under SIGN LANGUAGE STUDIES.

BIOCHEMISTRY

Biochemistry Major: Bachelor of Sciences (38 s.h.)

REQUIRED MAJOR COURSES:

CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1120.00	General Chemistry II	3 s.h.
CHM 1120.LB	General Chemistry II Lab	1 s.h.
CHM 2210.00	Organic Chemistry I	3 s.h.
CHM 2210.LB	Organic Chemistry I Lab	1 s.h.
CHM 2220.00	Organic Chemistry II	3 s.h.
CHM 2220.LB	Organic Chemistry II Lab	1 s.h.
CHM 3310.00	Quantitative Analysis	3 s.h.
CHM 3310.LB	Quantitative Analysis Lab	1 s.h.
CHM 3610.00	Biochemistry I (BIO)	3 s.h.
CHM 3610.LB	Biochemistry I (BIO) Lab	1 s.h.
CHM 3620.00	Biochemistry II (BIO)	3 s.h.
CHM 3620.LB	Biochemistry II (BIO) Lab	1 s.h.
CHM 4410.00	Physical Chemistry I	3 s.h.
CHM 4410.LB	Physical Chemistry I Lab	1 s.h.
CHM 4420.00	Physical Chemistry II	3 s.h.
CHM 4420.LB	Physical Chemistry II Lab	1 s.h.
CHM 4950	Senior Seminar	<u>2 s.h.</u>
		38 s.h.

REQUIRED SUPPORT COURSES (28 s.h.):

BIO 2250*	Basic Human Physiology	3 s.h.
BIO 2260.00*	Microbiology	3 s.h.
BIO 2260.LB*	Microbiology Lab	1 s.h.
BIO 3010.00*	Genetics	3 s.h.
BIO 3010.LB*	Genetics Lab	1 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
PHY 2530.00	General Physics I (3 s.h.) and	
PHY 2530.LB	General Physics I Lab (1 s.h.)	
	or	
PHY 2630.00	Physics for Scientists & Engineers I** (3 s.h.) and	
PHY 2630.LB	Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.
PHY 2540.00	General Physics II (3 s.h.) and	
PHY 2540.LB	General Physics II Lab (1 s.h.)	
	or	
PHY 2640.00	Physics for Scientists & Engineers II** (3 s.h.) and	
PHY 2640.LB	Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.

*Biology minor includes these courses plus BIO 1030.00, BIO 1030.LB, BIO 1040.00, BIO 1040.LB, and either BIO 3220.00 and BIO 3220.LB, or ENV 3210.00 and ENV 3210.LB.

**Students planning graduate study are advised to select PHY 2630.00, PHY 2630.LB, PHY 2640.00, and PHY 2640.LB in their plans.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

BIOLOGY

Biology Major: Bachelor of Science (33-34 s.h.)

The major in Biology is designed to provide students with fundamental concepts as well as theoretical and practical experiences unique to the biological sciences. The curriculum provides students with the foundational knowledge and skills needed to pursue graduate or professional school; or a career in research, education or industry.

REQUIRED MAJOR COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4950 Senior Seminar	2 s.h.
Major electives*	6 s.h.

COURSES IN CELLULAR OR MOLECULAR BIOLOGY: 7-8 s.h.

BIO 2260.00 Microbiology (3 s.h.)	
BIO 2260.LB Microbiology Lab (1 s.h.)	
BIO 3170 Parasitology (4 s.h.)	
BIO 3280.00 Clinical Immunology & Serology (3 s.h.)	
BIO 3280.LB Clinical Immunology & Serology Lab (1 s.h.)	
BIO 3610.00 Biochemistry I (CHM*) (3 s.h.)	
BIO 3610.LB Biochemistry I (CHM*) (1 s.h.)	
BIO 3740 Cell Biology (3 s.h.)	
BIO 4410.00 Molecular Biology (2 s.h.)	
BIO 4410.LB Molecular Biology Lab (1 s.h.)	
BIO 4520.00 Forensic Biology (FOR*) (3 s.h.)	
BIO 4520.LB Forensic Biology Lab (FOR*) (1 s.h.)	

COURSES IN EVOLUTION, EPIDEMIOLOGY

OR ECOLOGY:	6 s.h.
BIO 3220.00 General Ecology (3 s.h.)	
BIO 3220.LB General Ecology Lab (1 s.h.)	
BIO 3450 Epidemiology (3 s.h.)	
BIO 3720 Science and Racial Justice (3 s.h.)	
BIO 3750 Special Topics in Biology (1-3 s.h.)	
BIO 4010 Population Genetics (FOR)(3 s.h.)	
BIO 4700 Biological Investigation (1-4 s.h.)	

33-34 s.h.

REQUIRED SUPPORT COURSES (24 s.h.):

CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
MTH 2350 Probability and Statistics	4 s.h.
PHY 2530.00 General Physics I (3 s.h.) and	
PHY 2530.LB General Physics I Lab (1 s.h.)	

or

PHY 2630.00 Physics for Scientists & Engineers I (3 s.h.) and	
PHY 2630.LB Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.

PHY 2540.00 General Physics II (3 s.h.) and	
PHY 2540.LB General Physics II Lab (1 s.h.)	

or

PHY 2640.00 Physics for Scientists & Engineers II (3 s.h.) and	
PHY 2640.LB Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.

*Major electives may be selected from all BIO courses except BIO 1010.00 and BIO 1010.LB, BIO 2250, or BIO 3150.

Biology Minor (22-23 s.h.)

REQUIRED MINOR COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
BIO 2250 Basic Human Physiology	3 s.h.
BIO 2260.00 Microbiology	3 s.h.
BIO 2260.LB Microbiology Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 3220.00 General Ecology (3 s.h.) and	
BIO 3220.LB General Ecology Lab (1 s.h.)	

or

ENV 3210.00 Limnology: The Study of Lakes (2 s.h.) and	
ENV 3210.LB Limnology: The Study of Lakes Lab (1 s.h.)	<u>3 s.h.</u>
	22-23 s.h.

Environmental Science for Animal Studies and Biology Majors, Minor (24 s.h.)

REQUIRED MINOR COURSES:

CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
ENV 3210.00 Limnology: The Study of Lakes	2 s.h.
ENV 3210.LB Limnology: The Study of Lakes Lab	1 s.h.
ENV 3320.00 Environmental Analysis	3 s.h.
ENV 3320.LB Environmental Analysis Lab	1 s.h.
ENV 4710.00 Environmental Pollutions	3 s.h.
ENV 4710.LB Environmental Pollution Lab	1 s.h.
ESS 3260.00 Meteorology	3 s.h.
ESS 3260.LB Meteorology Lab	1 s.h.
Minor electives (see major for choices)	<u>1 s.h.</u>
	24 s.h.

DNA Analysis Certificate of Completion (22 s.h.)

REQUIRED CERTIFICATE COURSES:

BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4010 Population Genetics (FOR)	3 s.h.
BIO 4410.00 Molecular Biology	2 s.h.
BIO 4410.LB Molecular Biology Lab	1 s.h.
BIO 4520.00 Forensic Biology (FOR*)	3 s.h.
BIO 4520.LB Forensic Biology Lab (FOR*)	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I (BIO) Lab	1 s.h.
MTH 2350 Probability and Statistics	<u>4 s.h.</u>
	22 s.h.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion

of the program director. (This policy is general across all Science and Mathematics programs.)

BROADCAST AND CINEMA ARTS

The Broadcast and Cinema Arts program uses an integrated theoretical and intensive hands-on approach to prepare students for careers in broadcast, film, and new media industries.

The curriculum, grounded in the liberal arts, offers a professional preparation that is based on field training and that encourages student input and innovation throughout. Students develop skills that characterize adaptable professionals with wide-ranging expertise that can be applied to positions in television, radio, film, and many different digital media contexts.

Students can qualify to teach television and radio production at the high school level with additional course completion in education (see in this Catalog CAREER AND TECHNICAL EDUCATION listing).

Broadcast and Cinema Arts Major: Bachelor of Arts (47 s.h.)

REQUIRED MAJOR COURSES:

BCA 2020	Cinema Studies (COM)	3 s.h.
BCA 2310	Modern Radio Techniques I	1 s.h.
BCA 2610	Television Production I (COM/JRN)	3 s.h.
BCA 2810	Field Production and Editing I	3 s.h.
BCA 3030	Writing for Radio, TV, and Film (JRN)	3 s.h.
BCA 3610	Television Production II (COM/JRN)	3 s.h.
BCA 3750	Television News Reporting and Production (JRN)	3 s.h.
BCA 3820	Field Production and Editing II (JRN)	3 s.h.
BCA 3830	Post Production	3 s.h.
BCA 4010	Mass Communication (COM/JRN*)	3 s.h.
BCA 4630	Directing and Producing for Television (JRN)	3 s.h.
BCA 4810, 4820, 4830*	Capstone in Film Production	6 s.h.
BCA 4910	Cooperative Education	1 s.h.
BCA 3440	Talent and Performance for Television and Radio (COM) or	
COM 1050	Communication Concepts and Contexts or	
COM 2350	Public Speaking: Theory and Practice	3 s.h.
	Major electives, to be chosen from:	6 s.h.
	BCA: any course or workshop listed or cross-listed as BCA	
	GDA 3150 Photoshop (BCA/JRN) (3 s.h.)	
	GDA 3210 Motion Graphics (BCA) (3 s.h.)	
	COM 1050 Communication Concepts and Contexts (3 s.h.)	
	COM 2350 Public Speaking: Theory and Practice (3 s.h.)	
	COM 3410 Acting Techniques I (4 s.h.)	
	COM 3420 Acting Techniques II (4 s.h.)	
	JRN 1320 News Reporting (WRT) (3 s.h.)	
	MUAP 2610 Lyric Theatre (1-2 s.h.)	

47 s.h.

*BCA 4810, 4820, 4830 together constitute a one-year course beginning in Winter semester and running through Spring semester and Fall semester of the same year. The student registering for BCA 4810 is committing to stay with the course for one calendar year.

Broadcast and Cinema Arts Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

BCA 1010	Survey of Broadcast, Film, and Digital Media (JRN)	3 s.h.
BCA 2020	Cinema Studies (COM) or	
BCA 3440	Talent and Performance of Television and Radio (COM) or	
COM 1050	Communication Concepts and Context or	
COM 2350	Public Speaking: Theory and Practice	3 s.h.
BCA 2610	Television Production I (COM/JRN)	3 s.h.
BCA 2810	Field Production and Editing I	3 s.h.
BCA 3610	Television Production II (COM/JRN)	3 s.h.
BCA 3820	Field Production and Editing II (JRN)	3 s.h.
	Major electives, to be selected from all BCA courses	<u>6 s.h.</u>
		24 s.h.

Broadcast and Cinema Arts Minor (24 s.h.)

REQUIRED MINOR COURSES:

BCA 1010	Survey of Broadcast, Film, and Digital Media (JRN)	3 s.h.
BCA 2610	Television Production I (COM/JRN)	3 s.h.
BCA 2810	Field Production and Editing I	3 s.h.
BCA 3610	Television Production II (COM/JRN)	3 s.h.
BCA 4010	Mass Communication (COM/JRN*)	3 s.h.
	Minor electives, to be selected from all BCA courses	<u>9 s.h.</u>
		24 s.h.

Post-Production for Film and Video Certificate of Completion (17 s.h.)

REQUIRED CERTIFICATE COURSES:

GDA 3150	Photoshop (BCA/JRN)	3 s.h.
BCA 1800	Final Cut Pro Level I Certification	2 s.h.
BCA 2850	Audio for Film, Broadcast, and Media	3 s.h.
BCA 3830	Post Production	3 s.h.
BCA 3840	Visual Effects and Compositing I (ART)	3 s.h.
BCA 3850	Visual Effects and Compositing II (ART)	<u>3 s.h.</u>
		17 s.h.

BUSINESS ADMINISTRATION

The Business Administration major, Bachelor of Science, provides a comprehensive and analytically focused foundation in the core functions of modern organizations, including management, marketing, finance, accounting, operations, and business analytics. Designed to prepare graduates for success in a data-driven and global business environment, the program integrates theoretical knowledge with quantitative analysis and practical application, emphasizing critical thinking, ethical decision-making, and effective communication. The Business Administration major, Bachelor of Science, is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

The Accounting concentration prepares students for corporate and small business accounting careers. In addition to maintaining accounting records, professional accountants analyze and measure business activity, create reports, and communicate information to management. Graduates may be employed in all areas of accounting, including cost management, financial analysis, information systems, management, policy, and taxation. The accounting concentration emphasizes managerial accounting and is not structured to meet the coursework requirements for CPA certification.

The AI Literacy concentration is a non-technical program designed to be accessible to everyone and does not require any coding experience or AI background. It prepares students to become informed leaders, policymakers, and citizens in an AI-infused future. By fostering an understanding of AI's capabilities, limitations, and impact, students are empowered to navigate the challenges and opportunities presented by AI technology in their respective fields.

The Business Analytics concentration offers students comprehensive training in essential data analysis skills, including SQL and Tableau, empowering them to address a variety of business challenges using low-code analytics tools. This program meets the demand for a less technically challenging track that caters to a wide range of analytics careers.

The General Business concentration will prepare students for corporate and small business careers. In addition to the required core of Business courses, students will be able to take 12 credits of coursework based on their interest. Graduates may be employed in corporations, small and medium size businesses, and some will establish entrepreneurial ventures.

The Information Technology Management concentration is designed to provide students with real-world skills and the ability to be fully prepared to take two CompTIA certification exams - the A+ certification and the Network Certification. The program utilizes portfolio-building projects and stackable certifications to help ensure your students can learn the skills needed to be employed in any size business.

The Marketing concentration prepares students for careers in sales, sales management, digital marketing, brand, product and marketing management, as well as customer service, market and industry analysis and pricing. The program utilizes portfolio-building projects to ensure students have the skills necessary to be employed in any size business.

The Global Supply Chain Management concentration prepares students for careers in procurement, logistics, operations management, and supply chain management. Students graduating with this concentration are able to apply these skills in a wide range of industries, including healthcare, retail and automotive, as well as in physical distribution industries like shipping and trucking.

Some majors, minors and concentrations have courses that are offered online, through a consortium of regionally accredited colleges and universities. Instruction is provided by faculty employed by those partner institutions within the consortium, with technology and administrative support provided by Rize Education. Refer to the Consortia section of this catalog for more information. Contact the Registrar's Office at registrar@madonna.edu with any questions.

Business Administration Major: Bachelor of Science (42-44 s.h.)

REQUIRED MAJOR COURSES:

BUS 3010	Business Professionalism	3 s.h.
BUS 4930	Internship	3 s.h.
BUS 4950	Business Capstone	3 s.h.
FIN 3150	Corporate Finance	3 s.h.
INB 3140	International Business	3 s.h.
MGT 3690	Entrepreneurship	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.

QS 2500	Principles of Data Analytics	3 s.h.
SCM 2650	Operations & Supply Chain Management	3 s.h.

Specialty Concentration, select from (see below) 12-14 s.h.
 Accounting (14 s.h.) **or**
 AI Literacy (12 s.h.) **or**
 Business Analytics (12 s.h.) **or**
 General Business (12 s.h.) **or**
 Global Supply Chain Management (12 s.h.) **or**
 Information Technology Management (12 s.h.) **or**
 Marketing (12 s.h.)

42-44 s.h.

Required concentration—Select one concentration from:

Accounting Concentration (14 s.h.)

ACC 3050	Intermediate Accounting	4 s.h.
ACC 3410	Accounting Information Systems	3 s.h.
ACC 3590	Taxation	4 s.h.
ACC 4700	Cost Accounting	3 s.h.

AI Literacy Concentration (12 s.h.)

AI 3100	AI for Everyone	3 s.h.
AI 3150	AI for Decision-Making	3 s.h.
AI 4100	AI for Creativity and Design	3 s.h.
AI 4150	AI Ethics	3 s.h.

Business Analytics Concentration (12 s.h.)

QS 2550	Foundations of Data Analytics I	3 s.h.
QS 2610	Foundations of Data Analytics II	3 s.h.
QS 3300	Business Analytics I	3 s.h.
QS 3310	Business Analytics II	3 s.h.

Global Supply Chain Management Concentration (12 s.h.)

SCM 3500	Building Integrated Supply Chains	3 s.h.
SCM 4100	Contemporary Logistics	3 s.h.
SCM 4300	Global Supply Chain Management	3 s.h.
SCM 4700	Procurement Management	3 s.h.

Information Technology Concentration (12 s.h.)

ITM 2500	Introduction to Information Technology Systems	3 s.h.
ITM 2550	Networking Technologies and Telecommunications	3 s.h.
ITM 3100	Operating Systems and Architecture	3 s.h.
ITM 3150	Information Security and Data Protection	3 s.h.

Marketing Concentration (12 s.h.)

MKT 3550	Consumer Behavior (NFS)	3 s.h.
MKT 3880	Professional Selling and Sales Management	3 s.h.
MKT 4500	Global Brand Management	3 s.h.
MKT 4560	Marketing Management	3 s.h.

General Business Concentration: (12 s.h.)

Elective Courses:

ACC 3050	Intermediate Accounting	4 s.h.
ACC 3410	Accounting Information Systems	3 s.h.
ACC 3590	Taxation	4 s.h.
ACC 4700	Cost Accounting	3 s.h.
AI 3100	AI for Everyone	3 s.h.
AI 3150	AI for Decision-Making	3 s.h.
AI 4100	AI for Creativity and Design	3 s.h.
AI 4150	AI Ethics	3 s.h.
FIN 3700	Lifecycle Financial Analysis	3 s.h.
MKT 3550	Consumer Behavior	3 s.h.

MKT 3880	Professional Selling and Sales Management	3 s.h.
MKT 4500	Global Brand Management	3 s.h.
MKT 4600	Marketing Management	3 s.h.
SCM 3500	Building Integrated Supply Chains	3 s.h.
SCM 4100	Contemporary Logistics	3 s.h.
SCM 4300	Global Supply Chain Management	3 s.h.
SCM 4700	Procurement Management	3 s.h.

REQUIRED BUSINESS FOUNDATION COURSES (18 S.H.):

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
BL 3330	Business Law	3 s.h.
BUS 3960	Business Ethics	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
WRT 3260	Business and Professional Writing (BUS)	3 s.h.

REQUIRED SUPPORT COURSES (20 S.H.):

ECN 2720	Principles of Microeconomics	3 s.h.
ECN 2730	Principles of Macroeconomics	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3020	Organizational Behavior	3 s.h.
MTH 1050	College Algebra	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.

Business Administration and Leadership Major: Bachelor of Science (30 s.h.)

The Business Administration and Leadership program is an all-online offering to Haitian nationals with a minimum of two years of transfer credit who meet other specific admission criteria. The program leads to a Bachelor of Science in Business Administration and Leadership.

REQUIRED MAJOR COURSES:

BUS 3960	Business Ethics	3 s.h.
FIN 3150	Corporate Finance	3 s.h.
INB 3140	International Business	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MGT 3260	Human Behavior and Leadership	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.
SCM 2650	Operations & Supply Chain Management	3 s.h.
Select 9 s.h. of Business Electives in the following disciplines:		
ACC, BUS, BL, ECN, FIN, HTM, INB, MGT, MIS, MKT, QS, SM, SCM		
		<u>9 s.h.</u>
		30 s.h.

REQUIRED BUSINESS FOUNDATION COURSES (15 S.H.):

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
BUS 4950	Business Capstone	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
QS 2500	Principles of Data Analytics	3 s.h.

REQUIRED SUPPORT COURSES (17 S.H.):

ECN 2720	Principles of Microeconomics	3 s.h.
ECN 2730	Principles of Macroeconomics	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MTH 1050	College Algebra	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.

Business Administration Major: Associate of Science (30 s.h.)

The Associate of Science with a major in Business Administration is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ECN 2720	Principles of Microeconomics	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
	Major electives (School of Business Courses)	<u>15 s.h.</u>
		30 s.h.

Business Administration Minor (24 s.h.)

REQUIRED MINOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
BUS 3960	Business Ethics	3 s.h.
ECN 2720	Principles of Microeconomics or	
ECN 2730	Principles of Macroeconomics	3 s.h.
INB 3140	International Business	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3020	Organizational Behavior	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		24 s.h.

Global Supply Chain Management Minor (22 s.h.)

REQUIRED MINOR COURSES:

MGT 2360	Principles of Management	3 s.h.
MTH 2350	Probability and Statistics	4 s.h.
SCM 2650	Operations & Supply Chain Management	3 s.h.
SCM 3500	Building Integrated Supply Chains	3 s.h.
SCM 4100	Contemporary Logistics	3 s.h.
SCM 4300	Global Supply Chain Management	3 s.h.
SCM 4700	Procurement Management	<u>3 s.h.</u>
		22 s.h.

Entrepreneurship Certificate of Completion (15 s.h.)

Non-business majors are invited to this certificate: develop your own business around your passion and skills.

REQUIRED CERTIFICATE COURSES:

ACC 2000	Survey of Accounting or	
ACC 2010	Principles of Accounting I	3 s.h.
MGT 3690	Entrepreneurship	3 s.h.
MKT 3880	Professional Selling and Sales Management	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.
SCM 2650	Operations and Global Supply Chain Management	<u>3 s.h.</u>
		15 s.h.

REQUIRED SUPPORT COURSE (6 S.H.):

MKT 2440	Principles of Marketing	3 s.h.
MGT 2360	Principles of Management	3 s.h.

Information Technology Management Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

ITM 2500	Introduction to Information Technology Systems	3 s.h.
ITM 2550	Networking Technologies and	

Telecommunications	3 s.h.
ITM 3100 Operating Systems and Architecture	3 s.h.
ITM 3150 Information Security and Data Protection	<u>3 s.h.</u>
	12 s.h.

BUSINESS ANALYTICS

Business Analytics is a rapidly expanding business discipline, enabled by explosive growth in data, computing power and software availability. Analytics can be defined as the scientific process of transforming data into insights, and ultimately into better decisions. More than ever before, businesses are focused on optimizing marketing, development, and production decisions based on consumer behavior. Students will be well-equipped to apply descriptive, predictive and prescriptive models to data in order to help organizations better analyze data and make better operational and strategic decisions.

Business Analytics Major: Bachelor of Science

(37-40 s.h.)

BUS 3010	Business Professionalism	3 s.h.
BUS 4930	Internship	1-4 s.h.
BL 3330	Business Law	3 s.h.
BUS 3960	Business Ethics	3 s.h.
FIN 3150	Corporate Finance	3 s.h.
INB 3140	International Business	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.
QS 2550	Foundations of Data Analytics I	3 s.h.
QS 2610	Foundations of Data Analytics II	3 s.h.
QS 3300	Business Analytics I	3 s.h.
QS 3310	Business Analytics II	3 s.h.
SCM 2650	Operations & Supply Chain Management	<u>3 s.h.</u>
		37-40 s.h.

REQUIRED BUSINESS FOUNDATION COURSES (15 S.H.):

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
BUS 4950	Business Capstone	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
QS 2500	Principles of Data Analytics	3 s.h.

REQUIRED SUPPORT COURSES (17 S.H.):

ECN 2720	Principles of Microeconomics	3 s.h.
ECN 2730	Principles of Macroeconomics	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MTH 1050	College Algebra	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.

CARE MANAGEMENT FOR THE OLDER ADULT

See listing under GERONTOLOGY.

CAREER AND TECHNICAL EDUCATION

Standard CTE Certificate (19 s.h.)

Individuals who do not hold a Michigan teaching certificate may earn a Standard CTE Certificate, valid for teaching in State-reimbursed CTE classrooms, grade 9-12, by meeting the following requirements:

- Hold a bachelor's degree.
- Complete training in Adult and Child CPR and First Aid through agencies approved by the

Michigan Department of Education.

All candidates, whether holding a Michigan teaching certificate or not must meet the following requirements:

- Have a major, minor or equivalent training in the occupational field. If candidate does not possess appropriate coursework or training, he/she may be required to complete an examination through the Michigan Occupational Competency Assessment Center (MOCAC).
- Have 2 years (4,000 hours) of recent and relevant work experience in the field. If experience is not current, the candidate may be required to complete an examination through the Michigan Occupational Competency Assessment Center (MOCAC).
- Complete Madonna University required coursework, see below.

Required Standard CTE certificate coursework for candidates who do not hold a teaching certificate:

EDU 4450 Foundations of Vocational Education	2 s.h.
EDU 4590 Theory and Techniques of Instruction: Career and Technical Education (9-12)	4 s.h.

Madonna can recommend students for a Standard CTE Certificate in the following occupational areas:

CIP Code

Automobile Technician (ASE certified)	47.0604
Construction Trades	46.0000
Cooking and Related Culinary Arts, General	12.0500
Cosmetology	12.0400
Drafting and Design Technology/ Architectural Education/General	15.1301
Graphics and Printing Technology and Communications	13.0000
Health Sciences/Allied Health, Health Sciences, General	10.0301
Public Safety/Protective Services	51.0000
Radio and Television Broadcasting Technology	43.0100
	10.0202

Professional CTE Certificate

To advance from the Standard CTE Certificate to the Professional CTE Certificate requires the following:

- Consecutive effective or highly effective ratings on your annual year-end performance evaluations for the 3 consecutive school years immediately preceding your application for the Professional Teaching Certificate, **or**
- Nonconsecutive effective or highly effective ratings on your annual year-end performance evaluation for at least 3 nonconsecutive school years prior to applying for the Professional Teach Certificate, including an Effective Educator Recommendation Form completed by the chief school administrator of the school where you are currently employed.
- three years of successful teaching since the issue date of the initial Standard CTE Certificate, within the content areas and grade level of the Standard CTE Certificate; **and**
- the state-required reading diagnostic course (see RDG 5510/RDG 5520 below); **and**
- one of the following*:
 - > 6 s.h. in a planned course of study (which can include the reading diagnostic course), **or**

- > 150 SCECH's (State Continuing Education Clock Hours), **or**
- > 150 clock hours of DPPD (District Provided Professional Development), **or**
- > a combination of the three above to equal a total of 150 (25 SCECH's = 1 semester hour = 25 clock hours of DPPD).

**All course work and professional development must be appropriate to the grade level and endorsement(s) of the certificate.*

REQUIRED COURSE FOR PROFESSIONAL CTE CERTIFICATE:

RDG 5510	Reading Process, Assessment, and Instruction for Elementary Teachers (3 s.h.), or	
RDG 5520	Reading Process, Assessment, and Instruction for Secondary Teachers (3 s.h.)	3 s.h.
Elective*		3 s.h.
(see graduate catalog for RDG 5510 and RDG 5520)		

*Electives may be earned in a post-bachelor or graduate-level program. A full list of master's degree programs offered by the College of Education and Human Development can be found in the Graduate Catalog. Teachers should meet with the Certification Officer to determine the appropriate course work for the Professional CTE Certificate.

RECOMMENDED COURSES FOR PROFESSIONAL CTE CERTIFICATE:

If a candidate chooses to fulfill the planned course of study with semester-hour credit, courses from the following list, chosen in consultation with the Certification Officer, may be used to earn the Professional CTE Certificate:

EDU 3300	Exceptional Learner in the Classroom	3 s.h.
EDU 4250	Literacy Education in the Secondary School	4 s.h.
EDU 4410	Creating Constructive Learning Environments	3 s.h.
EDU 4450	Foundations of Vocational Education	2 s.h.
EDU 4800	Educational Foundations	3 s.h.
	Selected Education workshops	1-3 s.h.
	Course work in a graduate degree program offered by the College of Education and Human Development.	

*Electives may be earned in a post-bachelor or graduate-level program. A full list of master's degree programs offered by the College of Education and Human Development can be found in the Graduate Catalog. Teachers should meet with the Certification Officer to determine the appropriate course work for the Professional CTE Certificate.

CAREER COMMUNICATION

See listing under COMMUNICATION STUDIES.

CHEMISTRY

Chemistry Major: Bachelor of Science (38 s.h.)

REQUIRED MAJOR COURSES:

CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1120.00	General Chemistry II	3 s.h.
CHM 1120.LB	General Chemistry II Lab	1 s.h.
CHM 2210.00	Organic Chemistry I	3 s.h.
CHM 2210.LB	Organic Chemistry I Lab	1 s.h.
CHM 2220.00	Organic Chemistry II	3 s.h.
CHM 2220.LB	Organic Chemistry II Lab	1 s.h.
CHM 3310.00	Quantitative Analysis	3 s.h.
CHM 3310.LB	Quantitative Analysis Lab	1 s.h.

CHM 3510	Advanced Inorganic Chemistry	4 s.h.
CHM 4410.00	Physical Chemistry I	3 s.h.
CHM 4410.LB	Physical Chemistry I Lab	1 s.h.
CHM 4420.00	Physical Chemistry II	3 s.h.
CHM 4420.LB	Physical Chemistry II Lab	1 s.h.
CHM 4510.00	Instrumental Analysis	3 s.h.
CHM 4510.LB	Instrumental Analysis Lab	1 s.h.
CHM 4950	Senior Seminar	<u>2 s.h.</u>
		38 s.h.

RECOMMENDED ELECTIVES (9-12 s.h.):

CHM 3610.00	Biochemistry I (BIO)	3 s.h.
CHM 3610.LB	Biochemistry I (BIO) Lab	1 s.h.
CHM 3620.00	Biochemistry II (BIO)	3 s.h.
CHM 3620.LB	Biochemistry II (BIO) Lab	1 s.h.
CHM 4900	Problems in Chemistry	1-4 s.h.

REQUIRED SUPPORT COURSES (17 S.H.):

MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
PHY 2530.00	General Physics I (3 s.h.) and	
PHY 2530.LB	General Physics I Lab (1 s.h.)	
or		
PHY 2630.00	Physics for Scientists & Engineers I* (3 s.h.) and	
PHY 2630.LB	Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.
PHY 2540.00	General Physics II (3 s.h.) and	
PHY 2540.LB	General Physics II Lab (1 s.h.)	
or		
PHY 2640.00	Physics for Scientists & Engineers II* (3 s.h.) and	
PHY 2640.LB	Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.

*Students planning graduate study are advised to select PHY 2630.00 and PHY 2630.LB and PHY 2640.00 and PHY 2640.LB in their plan.

NOTE: Students seeking teacher certification are also required to take (1) CHM 3610.00 and CHM 3610.LB, Biochemistry I, as part of the major, and (2) ESS 2160.00 and ESS 2160.LB, Earth Science, or ESS 3290.00 and ESS 3290.LB, Principles of Astronomy, as a support course.

Chemistry Minor (20 s.h.)

REQUIRED MINOR COURSES:

CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1120.00	General Chemistry II	3 s.h.
CHM 1120.LB	General Chemistry II Lab	1 s.h.
CHM 2210.00	Organic Chemistry I	3 s.h.
CHM 2210.LB	Organic Chemistry I Lab	1 s.h.

CHM 2220.00 Organic Chemistry II (3 s.h.) **and** CHM 2220.LB Organic Chemistry II Lab (1 s.h.)

or

CHM 3610.00	Biochemistry I (BIO) (3 s.h.) and CHM 3610.LB Biochemistry I (BIO) Lab (1 s.h.)	4 s.h.
CHM 3310.00	Quantitative Analysis	3 s.h.
CHM 3310.LB	Quantitative Analysis Lab	<u>1 s.h.</u>
		20 s.h.

Environmental Science Chemistry Majors, Minor (24 s.h.)

REQUIRED MINOR COURSES:

BIO 1030.00	General Biology I	3 s.h.
BIO 1030.LB	General Biology I Lab	1 s.h.
BIO 1040.00	General Biology II	3 s.h.
BIO 1040.LB	General Biology II Lab	1 s.h.
ENV 3210.00	Limnology: The Study of Lakes	2 s.h.
ENV 3210.LB	Limnology: The Study of Lakes Lab	1 s.h.
ENV 3320.00	Environmental Analysis	3 s.h.
ENV 3320.LB	Environmental Analysis Lab	1 s.h.
ENV 4710.00	Environmental Pollutions	3 s.h.
ENV 4710.LB	Environmental Pollution Laboratory	1 s.h.
ESS 3260.00	Meteorology	3 s.h.
ESS 3260.LB	Meteorology Lab	1 s.h.
Minor electives (see major for choices)		<u>1 s.h.</u>
		24 s.h.

REQUIRED SUPPORT COURSE:

MTH 2350	Probability and Statistics	4 s.h.
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Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. *(This policy is general across all Science and Mathematics programs.)*

CHILDREN AND FAMILIES

The Children and Families major builds a strong foundational framework for understanding child development birth through eight, as well as family and community contexts that promote learning and development. In facilitating the growth and development of young children in home, early care, and school contexts, students apply research-based practices to evaluate appropriate materials and promote learning activities and positive interactions. Students develop a repertoire of strategies to support the development of young children across all domains. The program emphasizes the relationships to support and empower families in ways that enhance their children's development and learning.

For a program that leads to Michigan teacher certification, see the listing under EARLY CHILDHOOD EDUCATION.

Children and Families Major: Bachelor of Science (44 s.h.)

REQUIRED MAJOR COURSES:

CF 2160	Child Development Birth through Eight	3 s.h.
CF 3930	Preschool Practicum with Seminar	2 s.h.
CF 4920	Directed Teaching Seminar: Children and Families	1 s.h.
CF 4930	Directed Teaching: Children and Families	4 s.h.
CF 4950	Senior Seminar	2 s.h.
ECE 2250	Infant and Toddler Best Practices	3 s.h.
ECE 2320	Social Emotional Development in Young Children	3 s.h.
ECE 2650	Play-Based Learning	3 s.h.
ECE 3100	Language and Emergent Literacy	3 s.h.
ECE 3160	Child Care Administration	3 s.h.
ECE 3310	Early Math and Science Education	3 s.h.
ECE 3580	Early Childhood Curriculum Development	3 s.h.
ECE 3710	Inclusive Curriculum Birth to Eight	3 s.h.
ECE 4130	Home/School Partnerships (EDU)	3 s.h.
ECE 4160	Assessing Young Children	3 s.h.
NFS 2360	Child Nutrition	<u>2 s.h.</u>
		44 s.h.

REQUIRED SUPPORT COURSES (12 s.h.):

CF 2210	Professional Writing for Early Childhood Education	3 s.h.
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CF 4500	Issues Challenging Children and Families (FCS)	3 s.h.
CF 4220	Professionalism and Advocacy in Early Childhood	3 s.h.
RST 3100	Franciscan Values, Social Justice, and Service	3 s.h.

Children and Families Minor (23 s.h.)

REQUIRED MINOR COURSES:

CF 2160	Child Development Birth through Eight	3 s.h.
CF 3930	Preschool Practicum with Seminar	2 s.h.
ECE 2250	Infant and Toddler Best Practices	3 s.h.
ECE 2650	Play-Based Learning	3 s.h.
ECE 3100	Language and Emergent Literacy	3 s.h.
ECE 3580	Early Childhood Curriculum Development	3 s.h.
ECE 3710	Inclusive Curriculum Birth to Eight	3 s.h.
ECE 4130	Home/School Partnerships (EDU)	<u>3 s.h.</u>
		23 s.h.

Infant-Toddler Caregiver Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

ECE 2250	Infant and Toddler Best Practices	3 s.h.
ECE 3100	Language and Emergent Literacy	3 s.h.
ECE 3710	Inclusive Curriculum Birth to Eight	<u>3 s.h.</u>
		9 s.h.

Career and Technical Education Certification for teaching Child Care in high school is available with a major in Children and Families and appropriate work experience. See CAREER AND TECHNICAL EDUCATION listing.

CHURCH MUSIC - ORGAN

See listing under MUSIC.

COMMUNICATION STUDIES

Communication Studies Major: Bachelor of Arts (36-37 s.h.)

REQUIRED MAJOR COURSES:

COM 1050	Communication Concepts and Contexts	3 s.h.
COM 2120	Interpersonal Communication	3 s.h.
COM 2140	Argumentation and Persuasion	3 s.h.
COM 2350	Public Speaking: Theory and Practice	3 s.h.
COM 3100	Small Group Communication	3 s.h.
COM 4010	Mass Communication (BCA/JRN*)	3 s.h.
COM 4950	Senior Seminar: Applied Communication Theory	3 s.h.
Required concentration, select one from (see below):		
Oral Communication (15 s.h.) or		
Organizational Communication (15 s.h.) or		
Public Advocacy (16 s.h.) or		
Public Communication (15 s.h.)		
		<u>15-16 s.h.</u>
		36-37 s.h.

Oral Communication Concentration (15 s.h.)

Choose 15 s.h. from the following:

BCA 2810	Field Production and Editing I (3 s.h.)
COM 2330	Interviewing Techniques (3 s.h.)
COM 2550	Oral Interpretation of Literature (ENG) (3 s.h.)
COM 3410	Acting Techniques I (4 s.h.)
COM 3440	Talent and Performance for Television & Radio (BCA*) (3 s.h.)
COM 4000	Rhetorical Theory and Criticism (WRT*) (4 s.h.)
COM 4750	Topics in Communication (3 s.h.)

COM 4910 Cooperative Education in Communication (3 s.h.)
 COM 4930 Communication Practicum (3 s.h.)
 MUAP 2610 Lyric Theatre (1-3 s.h.)
 SW 2160 Empathy Listening Skills (SOC) (1 s.h.)
 WRT 2050 Creative Writing (3 s.h.)
 Elective course work agreed with the Communication advisor
 (1-6 s.h.)

Organizational Communication Concentration (15 s.h.)

COM 3520 Organizational Communication (3 s.h.)
 RST 4080 Moral Issues in Business (PHL)(3 s.h.)
 WRT 3260 Business and Professional Writing (BUS)(3 s.h.)

Choose 6 credits from the following:

COM 4000 Rhetorical Theory and Criticism (WRT*) (4 s.h.)
 COM 4750 Topics in Communication (3 s.h.) (max. 6 s.h.)
 COM 4910 Cooperative Education in Communication (3 s.h.)
 COM 4930 Communication Practicum (3 s.h.)
 JRN 1320 News Reporting (WRT) (3 s.h.)
 JRN 2050 Public Relations Writing (3 s.h.)
 SW 2160 Empathy Listening Skills (SOC)(1 s.h.)
 WRT 2440 Technical Writing (3 s.h.)

Public Advocacy Concentration (16 s.h.)

AGE 4040 Proposal Writing and Grant Administration
 (EM/SOC/SW) (3 s.h.)
 JRN 2050 Public Relations Writing (3 s.h.)
 SOC 2020 Social Problems **or**
 RST 3100 Franciscan Values, Social Justice, and Service (3 s.h.)
 SOC 1300 Introduction to Community Leadership (1 s.h.)
 Individualized Theme Studies: course work agreed with the
 Communication Advisor (6 s.h.)

Public Communication Concentration (15 s.h.)

COM 2550 Oral Interpretation of Literature (ENG) **or**
 COM 3410 Acting Techniques I (3-4 s.h.)
 JRN 2050 Public Relations Writing **or**
 WRT 3260 Business and Professional Writing (BUS) (3 s.h.)
 Individualized Theme Studies (Course work agreed with the
 Communication Advisor) (8-9 s.h.)

Communication Studies Minor (24-25 s.h.)

REQUIRED MINOR COURSES:

COM 1050 Communication Concepts and Contexts 3 s.h.
 COM 2120 Interpersonal Communication 3 s.h.
 COM 2140 Argumentation and Persuasion 3 s.h.
 COM 2350 Public Speaking: Theory and Practice 3 s.h.
 COM 3100 Small Group Communication 3 s.h.
 COM 4010 Mass Communication (BCA/JRN*) 3 s.h.

Two of the following courses: 6-7 s.h.

COM 2550 Oral Interpretation of Literature
 (ENG) (3 s.h.)
 COM 3520 Organizational Communication
 (3 s.h.)
 COM 4000 Rhetorical Theory and Criticism
 (WRT*) (4 s.h.)
 COM 4750 Topics in Communication (3 s.h.)

24-25 s.h.

Speech Communication Minor (24 s.h.)

*NOTE: For teacher certification in Speech, it is the Speech
 Communication minor that must be completed.*

REQUIRED MINOR COURSES:

COM 1050 Communication Concepts and Contexts 3 s.h.
 COM 2350 Public Speaking: Theory and Practice 3 s.h.
 COM 2550 Oral Interpretation of Literature (ENG) 3 s.h.

COM 3100 Small Group Communication* 3 s.h.
 COM 4010 Mass Communication (BCA/JRN*) 3 s.h.
 Minor electives, to be chosen from: 9 s.h.
 COM 2330 Interviewing Techniques (3 s.h.)
 COM 2140 Argumentation and Persuasion (3 s.h.)
 COM 2610 Television Production I (BCA*/JRN) (3
 s.h.)
 COM 3030 Children's Literature and Drama
 (ENG*) (3 s.h.)
 COM 3410 Acting Techniques I (4 s.h.)
 COM 3420 Acting Techniques II (4 s.h.)

24 s.h.

*NOTE: If the Speech minor is being developed specifically for
 endorsement of an Elementary (K-8) teaching certificate, the
 student may choose to substitute an elective for COM 3100.

Career Communication Certificate of Completion (18 s.h.)

REQUIRED CERTIFICATE COURSES:

COM 1050 Communication Concepts and Contexts 3 s.h.
 COM 2140 Argumentation and Persuasion 3 s.h.
 COM 2350 Public Speaking: Theory and Practice 3 s.h.
 COM 3100 Small Group Communication 3 s.h.

Select 6 s.h. from the following:

COM/JRN 3910/4910 Co-op/Internship (1-3 s.h.)
 JRN 1320 News Reporting (WRT) (3 s.h.)
 JRN 2050 Public Relations Writing (3 s.h.)
 WRT 2440 Technical Writing (3 s.h.)
 WRT 3260 Business and Professional Writing (3 s.h.)

18 s.h.

COMMUNITY LEADERSHIP

The Sociology Program offers students the opportunity to earn
 an undergraduate degree in Community Leadership while
 fulfilling core curriculum and major coursework. The overall
 goal of the degree is to prepare students for active, lasting,
 civic engagement, and community leadership roles. Through
 coursework and service-learning projects, gain the necessary
 knowledge and skills to work for the betterment of diverse
 communities. The undergraduate degree is designed to
 provide students the fundamental skills needed for careers in
 fields such as policy advocacy, community development,
 and community organizing. Graduates of this degree will be
 able to seek employment in a variety of settings geared
 toward community development such as non-profit
 organizations, business, governmental agencies, churches,
 and educational institutions. The degree's focus on
 community change will enhance students' marketability for
 leadership in positions in organizations seeking individuals with
 social action and community organizing skills.

REQUIRED CERTIFICATE COURSES:

SOC 1020 Introduction to Sociology 3 s.h.
 SOC 1300 Introduction to Community Leadership 1 s.h.
 PSC 1510 American Government 3 s.h.
 SOC 3120 Diversity, Discrimination, and Social Justice 3 s.h.
 SOC 4890 Seminar in Community Leadership 3 s.h.

13 s.h.

RECOMMENDED SUPPORT COURSE:

RST 3100 Franciscan Values, Social Justice, and Service 3 s.h.

**Must be completed with a grade of C (2.0) or better within the first 20 hours of the Computer Science minor.*

COMPUTER SCIENCE

The Computer Science major is intended to prepare students for a job as a software developer, a technical project/program manager, or a variety of other technical roles. It is designed with the specific intent of producing graduates with a working knowledge of key topics including web development, application development, and more.

Some majors, minors and concentrations have courses that are offered online, through a consortium of regionally accredited colleges and universities. Instruction is provided by faculty employed by those partner institutions within the consortium, with technology and administrative support provided by Rize Education. Refer to the Consortia section of this catalog for more information. Contact the Registrar's Office at registrar@madonna.edu with any questions.

Computer Science Major: Bachelor of Science (36 s.h.)

REQUIRED MAJOR COURSES:

CSC 2080	Computer Science	3 s.h.
CSC 2500	Programming for Everyone I	3 s.h.
CSC 2550	Programming for Everyone II	3 s.h.
CSC 2700	Web Development	3 s.h.
CSC 3020	Modern Technologies	3 s.h.
CSC 3210	Application Development I - Backend	3 s.h.
CSC 3300	Application Development II – Frontend	3 s.h.
CSC 3310	Software Development	3 s.h.
CSC 3510	Algorithms	3 s.h.
CSC 3610	Data Structures	3 s.h.
CSC 4140	Computer Systems	3 s.h.
CSC 4960	Capstone Project	3 s.h.
		36 s.h.

REQUIRED SUPPORT COURSES (8 s.h.):

MTH 1050	College Algebra (4 s.h.), or	
MTH 2460	Discrete Mathematics (4 s.h.)	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.

**Both courses must be completed with a grade of C (2.0) or better within the first 20 hours of the Computer Science major.*

Computer Science majors planning to apply to graduate school are advised to include MTH 2520 Calculus in with Analytic Geometry II in their plan of study.

Computer Science Major: Associate of Science (30-32 s.h.)

30-32 hours from required courses listed above.

Computer Science Minor (21 s.h.)

REQUIRED MINOR COURSES:

CSC 2080	Computer Science	3 s.h.
CSC 2500	Programming for Everyone I	3 s.h.
CSC 2550	Programming for Everyone II	3 s.h.
CSC 2700	Web Development	3 s.h.
CSC 3210	Application Development I - Backend	3 s.h.
CSC 3300	Application Development II – Frontend	3 s.h.
CSC 3610	Data Structures	3 s.h.
		21 s.h.

REQUIRED SUPPORT COURSE (4 s.h.):

CRIME LABORATORY TECHNICIAN

See listing under FORENSIC SCIENCE.

CRIMINAL JUSTICE

NOTE: All required courses are offered online as well as in classroom format. Many electives are offered throughout the year.

STUDENT DECORUM AND ETHICS: Professional behavior, criminal record, and appropriate attitude are considered when determining admittance to or continuation in the Criminal Justice program. This includes adherence to Madonna University's Student Conduct Code.

The Criminal Justice program provides students with a comprehensive understanding of the structures, processes, and challenges within the criminal justice system — including law enforcement, courts, and corrections. The curriculum blends academic study with practical application, emphasizing critical thinking, ethical decision-making, and effective communication.

Students will explore key topics such as criminal law, investigative techniques, criminal behavior, constitutional rights, and community relations. Additionally, the program prepares students to adapt to evolving issues like technology in policing, criminal justice reform, and public safety strategies.

Graduates will be equipped with the knowledge and skills necessary for a variety of careers, including roles in law enforcement, federal agencies, corrections, private security, legal services, and victim advocacy. The program also serves as a strong foundation for those seeking advanced degrees or leadership positions in the field.

For those pursuing a career in policing, the program offers an integrated Police Academy track, providing state certification upon graduation — allowing students to enter the workforce immediately as licensed officers, enhancing their career opportunities and marketability.

Criminal Justice Major: Bachelor of Science (45-54 s.h.)

REQUIRED MAJOR COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 1210	Introduction to Corrections	3 s.h.
CJ 1550	Police Process and Community Relations	3 s.h.
CJ 2010	Criminal Justice Organization and Administration	3 s.h.
CJ 2350	American Judicial Process (PSC)	3 s.h.
CJ 3040	Criminal Law and Procedure (FOR)	3 s.h.
CJ 3210	Principles of Criminology (FOR/SOC)	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
CJ 4050	Constitutional Law (PSC)	3 s.h.
CJ 4110	Ethics in Criminal Justice	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	3 s.h.
CJ 4950	Senior Seminar	3 s.h.

Choose at least one of the following concentrations:

General Criminal Justice Concentration (9 s.h.), or
Police Academy Concentration (15-18 s.h.) **9-18 s.h.**
45-54 s.h.

General Criminal Justice Concentration (9 s.h.)

Major electives, to be chosen from:

9 s.h.

CJ 1240	Introduction to Private Investigation (3 s.h.)	
CJ 1250	Introduction to Private Security (3 s.h.)	
CJ 3500	Homeland Security and Terrorism (EM) (3 s.h.)	
CJ 3550	Parole and Probation (3 s.h.)	
CJ 3820	Forensic Psychology (PSY*) (3 s.h.)	
CJ 4120	Organized Crime and Gangs in America (3 s.h.)	
CJ 4140	Drugs, Crime, and the Justice System (3 s.h.)	
CJ 4150	Criminal Investigation (FOR) (3 s.h.)	
CJ 4230	Homicide Investigation (3 s.h.)	
CJ 4750	Special Topics in Criminal Justice (3 s.h.)	

Police Academy Concentration (15-18 s.h.)

Police Academy* (15-18 s.h.)

At least 21 hours of criminal justice courses, including CJ 4950, Criminal Justice Senior Seminar, must be completed at Madonna University.

**Police Academy is offered through partner schools. Students will work with the department chair to determine which program will fit the student's needs. Once the student has completed the program and passed the test at the end of the program, the credits for the program will be awarded prior learning credit.*

Criminal Justice Major: Associate of Science (24 s.h.)

REQUIRED MAJOR COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 1210	Introduction to Corrections	3 s.h.
CJ 1550	Police Process and Community Relations	3 s.h.
CJ 2350	American Judicial Process (PSC)	3 s.h.
CJ 3040	Criminal Law and Procedure (FOR)	3 s.h.
CJ 3210	Principles of Criminology (FOR/SOC)	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		24 s.h.

Criminal Justice Minor (21 s.h.)

REQUIRED MINOR COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 1210	Introduction to Corrections	3 s.h.
CJ 1550	Police Process and Community Relations	3 s.h.
CJ 2350	American Judicial Process (PSC)	3 s.h.
CJ 3210	Principles of Criminology (FOR/SOC)	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		21 s.h.

Animal Cruelty Investigation Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 4150	Criminal Investigation (FOR)	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	3 s.h.
HUM 3210	Do Animals Matter?	<u>3 s.h.</u>
		9 s.h.

Crime Scene Practice Certificate of Completion (16 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 3040	Criminal Law and Procedure (FOR)	3 s.h.
CJ 4230	Homicide Investigation	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	3 s.h.
FOR 1010.00	Introduction to Forensic Science	3 s.h.

FOR 1010.LB	Introduction to Forensic Science Lab	<u>1 s.h.</u>
		16 s.h.

Homeland Security Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 3210	Principals of Criminology (FOR/SOC)	3 s.h.
CJ 3500	Homeland Security and Terrorism	3 s.h.
CJ 4150	Criminal Investigation (FOR)	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		15 s.h.

Private Investigation Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 1240	Introduction to Private Investigation	3 s.h.
CJ 2350	American Judicial Process (PSC)	3 s.h.
CJ 4150	Criminal Investigation (FOR)	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		15 s.h.

Private Security Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 1250	Introduction to Private Security	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		9 s.h.

Forensic Accounting Certificate of Completion (15 s.h.):

REQUIRED CERTIFICATE COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ACC 3410	Accounting Information Systems	3 s.h.
ACC 4800*	Forensic Accounting	3 s.h.
CJ 4150	Criminal Investigation (FOR)	3 s.h.
CJ 4450	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		15 s.h.

*Must be taken at Madonna University.

Note: No more than two of the courses in the certificate program will be accepted as transfer credit.

Forensic Psychology Certificate of Completion (16 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 3210	Principles of Criminology (FOR/SOC)	3 s.h.
PSY 1010	General Psychology	3 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 3820	Forensic Psychology (CJ)	<u>3 s.h.</u>
		16 s.h.

CYBERSECURITY

The Cybersecurity program prepares students to thrive in one of today's fastest-growing and most critical industries. As digital threats become more pervasive and sophisticated, this program equips students with the tools and expertise needed to protect individuals, corporations, and governments from cyberattacks. This program emphasizes the rapidly expanding field of low and no-code Cybersecurity roles, which demand a comprehensive understanding of the security landscape and proficiency with modern, accessible tools. Students gain hands-on experience through simulated security scenarios, recognized as the most valuable portfolio work in the Cybersecurity field.

Some majors, minors and concentrations have courses that are offered online, through a consortium of regionally accredited colleges and universities. Instruction is provided by faculty employed by those partner institutions within the consortium, with technology and administrative support provided by Rize Education. Refer to the Consortia section of this catalog for more information. Contact the Registrar's Office at registrar@madonna.edu with any questions.

Cybersecurity Major: Bachelor of Science (42 s.h.)

REQUIRED MAJOR COURSES:

CSC 2500 Programming for Everyone I	3 s.h.
CSC 2550 Programming for Everyone II	3 s.h.
CSC 2570 Google Cloud Computing Foundations	3 s.h.
CYS 2100 Introduction to Cybersecurity	3 s.h.
CYS 2110 Career Navigation and Exploration in Cybersecurity	3 s.h.
CYS 3020 Cybercrime and Governance	3 s.h.
CYS 3500 Modern Cybersecurity	3 s.h.
CYS 4100 Network and System Security	3 s.h.
CYS 4110 Ethical Hacking	3 s.h.
CYS 4500 Cyber Forensics	3 s.h.
CYS 4950 Cybersecurity Senior Capstone	3 s.h.
ITM 2550 Networking Technologies and Telecommunications	3 s.h.
MIS 2700 Systems Analysis and Design	3 s.h.
MIS 3700 Information Systems Project Management	3 s.h.
	42 s.h.

REQUIRED SUPPORT COURSE (15 s.h.):

MGT 2360 Principles of Management	3 s.h.
MGT 3020 Organizational Behavior	3 s.h.
MIS 2400 Principles of Management Information Systems	3 s.h.
PSY 1010 General Psychology	3 s.h.
WRT 2440 Technical Writing (3 s.h.), or	
WRT 3260 Business and Professional Writing (3 s.h.)	3 s.h.

Cybersecurity Certificate of Completion (15 s.h.)

The cybersecurity certificate of completion prepares students in modern cybersecurity challenges that threaten our privacy, security, and safety. Students will gain both the knowledge and hands-on technical skills to protect digital assets from cyber criminals who leverage sophisticated social and cyber tactics to facilitate attacks.

Students who complete this curriculum will not only be prepared for a career as a cybersecurity professional, they will also be well positioned to obtain a number of certifications which will increase their employability, including Certified Ethical Hacker, Certified Information Systems Security Professional, and Certified Forensic Examiner. They will also be prepared for the CompTIA A+ exam.

Required Certificate Courses:

CYS 2100 Introduction to Cybersecurity	3 s.h.
CYS 3020 Cybercrime and Governance	3 s.h.
CYS 3500 Modern Cybersecurity	3 s.h.
CYS 4100 Network and System Security	3 s.h.
CYS 4500 Cyber Forensics	3 s.h.
	15 s.h.

DATA ANALYTICS

See concentration under BUSINESS ANALYTICS.

DEAF COMMUNITY STUDIES

See listing under SIGN LANGUAGE STUDIES.

DEMENTIA CARE

See listing under GERONTOLOGY.

DIETETICS

The Madonna University Didactic Program in Dietetics is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The curriculum is designed to meet the Foundation Knowledge and Learning Outcomes for ACEND-accredited didactic programs. Students who successfully complete the program are given a verification statement.

The Dietetics Minor for Biology Majors provides a background in nutrition, food science, management, and sociology for students who are interested in becoming Registered Dietitian Nutritionists. Students who complete the minor courses, and take biochemistry, Anatomy and Physiology II and microbiology as part of the major will meet the prerequisite course requirements for the Nutrition and Dietetics Program Master of Science.

ADMISSION PROCESS: Students interested in the Dietetics Program can declare a Pre-Dietetics major upon admission to Madonna University. Students seeking admission to the Dietetics Program must apply by July 1st for fall admissions or November 1st for winter admissions. To be accepted into the program, the applicant must meet the following requirements:

1. a minimum of 56 semester hours, completed at or successfully transferred to Madonna University, with a cumulative grade point average of 3.0 or higher overall Madonna and transfer courses;

successful completion of the equivalent of all of the following courses - NFS 2270 Human Nutrition, WRT 1010, WRT 1020, BIO 2250 Human Physiology, BIO 2260.00 and BIO 2260.LB, or 2270 Microbiology; and CHM 2210.00 and CHM 2210.LB, Organic Chemistry-with a cumulative grade point average of 3.0 or higher over these courses.

ADMISSION OF TRANSFER STUDENTS TO PRE-DIETETICS: To be admitted with the intent to pursue the pre-dietetics path, transfer students with over 74 semester hours completed at other institutions and post-degree students must have a cumulative G.P.A., of at least 3.0, have completed at least 2/3 of all course work attempted, and be in good academic and personal standing at prior institutions.

ACADEMIC EXCELLENCE POLICY: Students must earn grades of C or higher in all dietetics major and major support courses. A student who receives two grades below C (2.0) in any major or major support courses will automatically be dismissed from the program. Students are allowed to repeat one of the major or major support courses one time and count the second grade. After one repeat, the original grade below C (2.0) counts in relation to this policy.

Dietetics Major (ACEND-Accredited/Didactic Program); Bachelor of Science (36 s.h.)

REQUIRED MAJOR COURSES:

NFS 2260.00 Food Science and Sanitation (FCS)	2 s.h.
NFS 2260.LB Food Science and Sanitation Lab (FCS)	1 s.h.
NFS 2270 Human Nutrition (FCS)	3 s.h.

NFS 3120	Nutrition and Human Development	3 s.h.
NFS 3220	Nutrition Assessment	2 s.h.
NFS 3250	Medical Nutrition Therapy I	3 s.h.
NFS 3390	Nutrition Education and Counseling	2 s.h.
NFS 4260	Nutrient Metabolism	3 s.h.
NFS 4380	Public Health Nutrition	2 s.h.
NFS 4395	Advanced Nutrition Counseling	1 s.h.
NFS 4420	Medical Nutrition Therapy II and Professional Issues	3 s.h.
NFS 4460	Management of Food and Nutrition Services	3 s.h.
NFS 4960.00	Experimental Foods and Research	2 s.h.
NFS 4960.LB	Experimental Foods and Research Lab	1 s.h.
	Major electives*	<u>5 s.h.</u>
		36 s.h.

*Major electives may be selected from all NFS courses except NFS 2220 or NFS 2360.

REQUIRED SUPPORT COURSES (27 s.h.):

BIO 2250	Basic Human Physiology	3 s.h.
BIO 2270	Microbiology for Health Sciences	3 s.h.
CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1610.00	Life Chemistry	3 s.h.
CHM 1610.LB	Life Chemistry Lab	1 s.h.
CHM 3610.00	Biochemistry I (BIO)	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MTH 2350	Probability and Statistics	4 s.h.
SOC 1020	Introduction to Sociology (3 s.h.), or	
PSY 1010	General Psychology (3 s.h.) or	
SW 3400	Human Behavior and the Social Environment (3 s.h.)	3 s.h.

Dietetics Minor for Biology Majors (23-24 s.h.)

REQUIRED MINOR COURSES:

NFS 2260.00	Food Science and Sanitation (FCS)	2 s.h.
NFS 2260.LB	Food Science and Sanitation Lab (FCS)	1 s.h.
NFS 2270	Human Nutrition (FCS)	3 s.h.
NFS 3390	Nutrition Education and Counseling	2 s.h.
NFS 4460	Management of Food and Nutrition Services	3 s.h.
NFS 4960.00	Experimental Foods and Research	2 s.h.
NFS 4960.LB	Experimental Foods and Research Lab	1 s.h.
SOC 1020	Introduction to Sociology	3 s.h.
MGT 2360	Principles of Management	3 s.h.

Elective: Choose one course NOT taken towards the Biology Major (3-4 s.h.)

BIO 2250	Basic Human Physiology (3 s.h.), or	
BIO 2270	Microbiology for Health Sciences (3 s.h.)	
BIO 2460.00	Human Anatomy and Physiology II (3 s.h.), and	
BIO 2460.LB	Human Anatomy and Physiology II Lab (1 s.h.) or	
BIO 3610.00	Biochemistry (CHM*) (3 s.h.) or	
NFS 3120	Nutrition and Human Development (3 s.h.)	
		<u>3-4 s.h.</u>
		23-24 s.h.

Science and mathematics taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

DNA ANALYSIS

See listing under BIOLOGY or FORENSIC SCIENCE.

EARLY CHILDHOOD EDUCATION

This program is for those who desire two of the three grade band endorsements with an early childhood specialization in Early Childhood Education B-K, Early Childhood Education PK-3, or Upper Elementary Education 3-6. The Early Childhood Education major is to be undertaken in conjunction with both the Professional Education sequence (see the Education pages of this catalog) and the Elementary Education major.

Those who do not want teacher certification are directed to the Children and Families program. For a degree to be granted in Early Childhood Education, all courses in the Professional Education Sequence, including Directed Teaching, must be completed.

Early Childhood Education Major: Bachelor of Science (40-48 s.h.)

REQUIRED MAJOR COURSES:

CF 2160	Child Development Birth through Eight	3 s.h.
ECE 2250	Infant and Toddler Best Practices	3 s.h.
ECE 3100	Language and Emergent Literacy	3 s.h.
ECE 2650	Play-Based Learning	3 s.h.
ECE 3310	Early Math and Science Education	3 s.h.
ECE 3580	Early Childhood Curriculum Development	3 s.h.
ECE 3710	Inclusive Curriculum Birth to Eight	3 s.h.
ECE 3930	Preschool Practicum with Seminar	2 s.h.
ECE 4130	Home/School Partnerships (EDU)	3 s.h.
ECE 4160	Assessing Young Children	3 s.h.
ECE 4210	Design of Instruction for Children with Exceptional Learning Needs	3 s.h.
ECE 4220	Workshops in Early Childhood Education	1 s.h.

Required Anchor Grade Band Concentration – ECE PK-3

ECE PK-3 Concentration (3 s.h.)

EDU 3550	Language Arts and Linguistics Foundations	3 s.h.
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Required Second Grade Band Concentration – Students must complete one of the following concentrations (see below):

ECE B-K Concentration (10 s.h.), or	
ECE 3-6 Concentration (4 s.h.), or	
ASD PK-12 Concentration (12 s.h.)	<u>4-12 s.h.</u>
	40-48 s.h.

Choose one of the following grade band concentrations:

ECE B-K Concentration (10 s.h.)

CF 4950	Senior Seminar	2 s.h.
ECE 2320	Social Emotional Development in Young Children	3 s.h.
NFS 2360	Child Nutrition	2 s.h.
ECE 3160	Child Care Administration	3 s.h.

ECE 3-6 Concentration (4 s.h.) (Upper Elementary)

EDU 4500	Theory and Techniques of Instruction: Elementary Mathematics and Science	4 s.h.
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ASD PK-12 Concentration (12 s.h.)

ASD 3400	Foundations of Autism Spectrum Disorder In Education	4 s.h.
ASD 4010	Social, Behavioral, and Communication Development in Autism	4 s.h.
ASD 4020	Interdisciplinary Perspectives and Interventions in Autism	4 s.h.

ECE B-K CONCENTRATION ONLY**REQUIRED SUPPORT COURSES (12 s.h.):**

CF 2210 Professional Writing for Early Childhood Education	3 s.h.
CF 4220 Professionalism and Advocacy in Early Childhood	3 s.h.
CF 4500 Issues Challenging Children and Families (FCS)	3 s.h.
RST 3100 Franciscan Values, Social Justice, and Service	3 s.h.

Note: Students who complete all certification requirements and seek to be recommended for an Elementary Standard Certificate with an Early Childhood Education Major must successfully pass two of the concentration grade band MTTC examinations:

- B-K (ZN) MTTC #134;
- PK-3 (ZO) MTTC #117, 118, 119, 120;
- 3-6 (ZP) MTTC # 121,122,123,124

EDUCATION

The Madonna University elementary and secondary teacher preparation programs are approved by the Michigan Department of Education and accredited by the Council for Accreditation of Educator Preparation (CAEP). The University recommends students for a Standard Teaching Certificate and for additional endorsements to existing certificates. The University also recommends students for Standard CTE Certificates in Career and Technical areas. (See Career and Technical Education listing in this Catalog.) Madonna University reserves the right to change program requirements to remain in compliance with changes in the State certification code.

Teacher Education Standard Certification Programs

Students may complete requirements for a Michigan Standard Certificate with either elementary grade band endorsements (B-K, PK-3, 3-6) or secondary grade band endorsements (5-9 or 7-12).

Students who are contemplating a career as a teacher are required to meet with an education department advisor immediately after being admitted to the University. The following course requirements must be met:

1. Core Curriculum.
2. A teaching major, selected from the list of approved majors.
3. Choose a teaching major or minor, selected from the list of approved majors and minors for elementary or secondary level.
4. The Professional Education sequence of courses.

Note that degree plans with teacher certification are longer than the minimum 120 s.h. required for the degree alone. Students are advised to review courses in the selected major that may also meet core curriculum goals.

Transfer students are evaluated on an individual basis but must complete a minimum of 20 semester hours at Madonna University before being recommended for initial certification.

Elementary Teaching Standard Certificate Programs

The full plan of study for an elementary teaching certificate must include the following:

1. **CORE CURRICULUM** (see *Core Curriculum for Baccalaureate Degree*). The following required courses, which can be used to meet Core Curriculum goals, are required courses in the Elementary Education major, requiring a minimum grade of C (2.0) or better:

MTH 2330	Learning and Teaching Number Concepts (EDU)	3 s.h.
MTH 2340	Learning and Teaching Geometric and Statistical Concepts (EDU)	3 s.h.
NSC 3730.00	Science Foundations I: Chemistry and Life Science (EDU)	3 s.h.
NSC 3730.LB	Science Foundations I: Chemistry and Life Science (EDU) Lab	1 s.h.
NSC 3740.00	Science Foundations II: Astronomy, Earth Science, and Physics (EDU)	3 s.h.
NSC 3740.LB	Science Foundations II: Astronomy, Earth Science, and Physics (EDU) Lab	1 s.h.
PSC 1510	American Government	3 s.h.
PSY 1010	General Psychology	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.

2. **TEACHING MAJOR** for elementary certification; The following plan choices have been approved by the Michigan Department of Education (MDE): Early Childhood Education with a concentration in ECE PK-3 plus one additional grade band concentration in ECE B-K or ECE 3-6 (Upper Elementary).

3. **ELEMENTARY EDUCATION MAJOR** (47 s.h.). See listing under *ELEMENTARY EDUCATION*.

4. The **PROFESSIONAL EDUCATION SEQUENCE** for elementary certification consisting of the following courses:

EDU 2000	Introduction to Professional Education Experiences	3 s.h.
<i>Note: during EDU 2000, and each subsequent field placement course, the student must complete and sign a Consent for Criminal Background Check. See advisors in the Education office for a sample form.</i>		
EDU 3120	Educational Psychology	3 s.h.
EDU 3210	Theory and Principles of Reading Instruction	3 s.h.
EDU 3300	The Exceptional Learner in the Classroom	3 s.h.
EDU 3460	Instructional Media	3 s.h.
EDU 2020	Introduction to Discipline Literacy and Dyslexia	1 s.h.
EDU 4220.00	Reading in the Content Areas	3 s.h.
EDU 4220.LB	Reading in the Content Areas Lab	0 s.h.
EDU 4410	Creating Constructive Learning Environments	3 s.h.
EDU 4700	Directed Teaching: Elementary	8 s.h.
EDU 4800	Foundations of Education	3 s.h.
EDU 4810	Seminar: Directed Teaching	<u>1 s.h.</u>
		34 s.h.

NOTE: For a degree to be granted in Early Childhood Education all courses required in the Professional Education Sequence, including *Directed Teaching*, must be completed.

Secondary Teaching Standard Certificate Programs

The full plan of study for a secondary teaching certificate must include the following:

1. **CORE CURRICULUM** (see *Core Curriculum for Baccalaureate Degree*). The following required courses, which can be used to meet general education goals, are required support courses to the Professional Education Sequence for secondary candidates, requiring a minimum grade of C (2.0) or better:

PSY 1010	General Psychology	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.

2. **TEACHING MAJOR** for secondary certification: Secondary candidates must select a major from the list of MDE approved majors. While an accompanying minor is not required, it is strongly encouraged for marketability in the profession. *For options and more details see your education advisor.*

3. The PROFESSIONAL EDUCATION SEQUENCE for secondary certification consists of the following courses:		
EDU 2000	Intro to Professional Education Experiences	3 s.h.
EDU 3120	Educational Psychology	3 s.h.
EDU 3210	Theory and Principles of Reading Instruction (K-12 candidates only)	3 s.h.
EDU 3300	The Exceptional Learner in the Classroom	3 s.h.
EDU 3460	Instructional Media	3 s.h.
EDU 2020	Introduction to Discipline Literacy and Dyslexia	1 s.h.
EDU 4250	Literacy Education in the Secondary School	4 s.h.
EDU 4410	Creating Constructive Learning Environments	3 s.h.
Theory and Techniques of Instruction, <i>to be chosen from:</i>		4 s.h.
EDU 4510	Theory and Techniques of Instruction: Art Education (K-12) (4 s.h.)	
EDU 4520	Theory and Techniques of Instruction: English Language and Literature (5-9, 7-12)	4 s.h.
EDU 4530	Theory and Techniques of Instruction: World Languages (6-12) (4 s.h.)	
EDU 4550	Theory and Techniques of Instruction: Mathematics (6-12) (4 s.h.)	
EDU 4560	Theory and Techniques of Instruction: Music Education (K-12) (4 s.h.)	
EDU 4570	Theory and Techniques of Instruction: Integrated Science (6-12) (4 s.h.)	
EDU 4580	Theory and Techniques of Instruction: Social Studies (6-12) (4 s.h.)	
EDU 4620	Theory and Techniques of Instruction: Physical Education and Health (K-12) (4 s.h.)	
Directed Teaching, <i>to be chosen from:</i>		8 s.h.
EDU 4670	Directed Teaching: Physical Education and Health (K-12) (8 s.h.)	
EDU 4710	Directed Teaching: Art Education (K-12) (8 s.h.)	
EDU 4720	Directed Teaching: English Language and Literature (6-12) (8 s.h.)	
EDU 4730	Directed Teaching: World Languages (6-12) (8 s.h.)	
EDU 4740	Directed Teaching: CTE (8 s.h.)	
EDU 4750	Directed Teaching: Mathematics (6-12) (8 s.h.)	
EDU 4760	Directed Teaching: Music (K-12) (8 s.h.)	
EDU 4770	Directed Teaching: Integrated Science (6-12) (8 s.h.)	
EDU 4790	Directed Teaching: Career and Technical Education (9-12) (8 s.h.)	
EDU 4780	Directed Teaching: Social Studies (5-9, 7-12) (8 s.h.)	
EDU 4800	Foundations of Education	3 s.h.
EDU 4810	Seminar: Directed Teaching	1 s.h.
		39 s.h.

K-12 Programs: Art Education, Music Education, Physical Education and Health K-12, ASL Education, and Spanish for Teaching Certification

All candidates for certification in Art Education, Music Education, Physical Education and Health K-12, ASL

Education, and Spanish for Teaching Certification must fulfill requirements for K-12 endorsement on a standard certificate and therefore must have experiences in theory and techniques of instruction and directed teaching experiences at elementary and secondary levels. The theory and techniques of instruction course and directed teaching for these programs are PK-12.

Additional Requirements for ASL Education and Spanish for Teaching Certification Majors:

- 1) American Sign Language majors are required to pass the American Sign Language Proficiency Interview (ASLPI) at an "Advanced Low" rating or higher, prior to student teaching.
- 2) Spanish for Teacher Certification majors are required to complete satisfactorily a Senior Comprehensive Examination prior to student teaching. For the Senior Comprehensive, students take the Oral Proficiency Interview-Computer (OPIc) of the American Council on the Teaching of Foreign Languages (ACTFL).

Acceptance to the Teacher Education Program:

Students planning to pursue a program in teacher education take the following steps:

- Apply for acceptance to the Teacher Education program during the semester of enrollment in EDU 2000 (the third or fourth semester for full-time students).
- Meet the following criteria for admission to and retention in the program:
 1. 3.0 or higher grade point average, both cumulative and in the major, in the minor, and in the professional education sequence;
 2. completion of WRT 1010, WRT 1020, and PSY 1010 (or equivalents) with a grade of C (2.0) or better;
 3. completion of EDU 2000 with a grade of C (2.0) or better;
 4. satisfactory scores on the reading, writing, and mathematics sections of the Praxis Core or SAT or ACT (recommended to be taken during the semester of enrollment in EDU 2000) or meet the requirements according to the Education Division's Earned Credit Policy in the Education Handbook.
 5. completed application form;
 6. two recommendation forms;
 - a) one from a University professor in your major;
 - b) one from any University professor other than from the College of Education and Human Development or a professional reference outside the University;
 - c) recommendations from friends or relatives are not acceptable.
 7. plan of study signed by major-field academic advisor.

Applications for acceptance to the Teacher Education Program are reviewed and approved by the Teacher Education Committee.

Admission to Directed Teaching:

The student applies for admission to Directed Teaching two semesters in advance, according to posted deadlines. At this time the student must submit evidence of the following:

1. academic competency as evidenced by a grade point average of 3.0 or better, both cumulative and in the major;
2. attainment of a grade of C (2.0) or better in professional education courses, major, minor, or planned program (note that completion of four of the required professional education courses requires acceptance to the Teacher Education program);
3. evidence of growth in professional teaching competence; and
4. written recommendation from major advisor and departmental approval.

Applications for admission to Directed Teaching are reviewed and approved by the Teacher Education Committee.

Acceptance to the Teacher Education Program and admission to directed teaching do not guarantee eventual recommendation for a certificate. Students must maintain satisfactory standards, and a grade point average of 3.0 or better, to be retained in the program, and they must be recommended for certification by the Teacher Education Committee. Completion of the relevant subject area tests of the Michigan Tests for Teacher Certification (MTTC) is also required.

Application for Michigan Standard Teaching Certificate

Students completing teaching certificate requirements must apply for their certificates on the Michigan Online Educator Certification System (MOECS). After submitting the application through this system, it is reviewed by the Certification Officer at Madonna University for approval and recommendation to the State of Michigan. Full information about the application process is available in the Education office.

Completion of the relevant subject area tests of the Michigan Test for Teacher Certification (MTTC) is required before a certificate application may be processed.

Programs for Certified Teachers

The following programs are of particular interest to those certified teachers who wish to add another teaching endorsement to their current teaching certificate:

1. **EARLY CHILDHOOD EDUCATION (Z0) ENDORSEMENT.** See the Graduate Catalog for a description of this program.
2. **ADDITIONAL GRADE BAND ENDORSEMENTS.** To add a grade band endorsement to a standard certificate, the student must see the Certification Officer for more information
3. **ADDITIONAL MAJOR OR MINOR.** An additional major or minor may be planned in any academic area certifiable through Madonna University (see table for Teacher Education Programs). The relevant subject area test of the Michigan Test for Teacher Certification (MTTC) is required when the major or minor is being completed.

6. **AUTISM SPECTRUM DISORDERS (SV) ENDORSEMENT.** See the Graduate Catalog for a description of this program.
7. **DEAF AND HARD OF HEARING (SL) ENDORSEMENT.** See the Graduate Catalog for a description of this program.
8. **READING SPECIALIST K-12 (BR) ENDORSEMENT.** See the Graduate Catalog under Literacy Education for a description of this program.
9. **SCHOOL ADMINISTRATOR PROGRAMS.** See the Graduate Catalog under Transformational Educational Leadership (MS), which includes a Concentration in Catholic School Leadership and Educational Leadership for a description of these programs.

For all Planned Programs, the student must take a minimum of 12 s.h. in residence at Madonna University in order for the University to make the certificate recommendation to the Michigan Department of Education. Transfer credits from accredited four-year institutions are evaluated on an individual basis.

Students in Planned Programs are expected to maintain a grade point average of 2.5 or better, and must earn a C (2.0) or better in each course used in the planned program, major, or minor.

Teachers in many of our planned programs are admitted to Madonna University as post-degree students and pay undergraduate tuition (except for the graduate reading course mentioned below).

Either RDG 5510 or RDG 5520, Reading Process, Assessment, and Instruction, 3 s.h., is required for the Professional Standard Teaching certificate. See the Graduate Catalog for these courses.

All teachers are referred to the Graduate Catalog for a full listing of graduate programs suitable for teachers working toward the Professional Teaching certificate. Teachers who earned their Michigan Standard certificate through Madonna University pay undergraduate tuition for master degree programs.

Madonna University Teacher Education Programs

Approved by the Michigan Department of Education

Accredited by the Council for Accreditation of Educator Preparation

Approved Secondary and PK-12 Majors

- American Sign Language Education (K-12)*
- Art Education (K-12)
- English Language Arts
- Integrated Science
- Mathematics
- Music Education (K-12)
- Physical Education and Health (K-12) *
- Social Studies
- Spanish for Teacher Certification (PK-12)

Approved Secondary and PK-12 Minors/Endorsements

- American Sign Language Education (K-12)
- Biology
- Chemistry
- English Language and Literature
- History
- Mathematics
- Physics
- Political Science
- Spanish for Teacher Certification (PK-12)
- Speech Communication

Approved Elementary Majors

- Elementary Education**
- Early Childhood Education PK-3*

Additional Grade Band Concentrations:

- Birth-K Grade Band Concentration
- Upper Elementary 3-6 Grade Band Concentration

**For a degree to be granted in these majors, all courses in the Professional Education Sequence, including Directed Teaching, must be completed.*

*** The Elementary Education major must be selected in conjunction with the Early Childhood Education PK-3 major and one of the elementary grade band concentrations.*

Certificates Available in Teacher Education

For more information on these certificates, see the Teacher Certification Specialist in the College of Education and Human Development office.

Essentials of Instruction Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

EDU 2000	Introduction to Professional Education Experiences	3 s.h.
EDU 3120	Educational Psychology	3 s.h.
EDU 3210*	Theory and Principles of Reading Instruction	3 s.h.
EDU 3300	The Exceptional Learner in the Classroom	3 s.h.
EDU 3460	Instructional Media	<u>3 s.h.</u>
		15 s.h.

*Required whether in elementary or secondary teaching track.

Instruction of English Language Learners K-12 Certificate of Completion (13 s.h.)*

REQUIRED CERTIFICATE COURSES:

EDU 3120	Educational Psychology	3 s.h.
EDU 4410	Creating Constructive Learning Environments	3 s.h.
EDU 3350	Language Arts and Linguistics Foundations (elementary)	3 s.h.
EDU 4250	Literacy Education in the Secondary School (secondary)	<u>4 s.h.</u>
		13 s.h.

*Since this certificate is based on specific units built into its courses, all certificate courses must be taken at Madonna University. The above courses are required for teacher certification. By completing these courses, a student also earns the Instruction of English Language Learners K-12 Certificate of Completion which is awarded by Madonna University with the processing of an Application for Undergraduate Certificate. Note that this certificate does not fulfill the requirements for an endorsement in English as a Second Language (NS) on a Michigan teaching certificate.

ELEMENTARY EDUCATION

This Elementary Education major must be selected in conjunction with the Early Childhood Education major, and the professional education sequences of courses. See listing under Early Childhood Education.

Note: Students may earn a B.A. degree in elementary Education without teacher certification.

Elementary Education Major: Bachelor of Arts (44 s.h.)

REQUIRED MAJOR COURSES:

AED 3160	Art Education in PK-Elementary Schools (EDU)	2 s.h.
EDU 4960	Senior Seminar for Elementary Educators	3 s.h.
ENG 3030	Children's Literature and Drama (COM)	3 s.h.
GEO 3050	World Regional Geography	3 s.h.
MTH 2330*	Learning and Teaching Number Concepts (EDU)	3 s.h.
MTH 2340*	Learning and Teaching Geometric and Statistical Concepts (EDU)	3 s.h.
MUS 3090	Music for the Classroom Teacher (EDU)	2 s.h.
NSC 3730.00*	Science Foundations I: Chemistry and Life Science (EDU)	3 s.h.
NSC 3730.LB*	Science Foundations I: Chemistry and Life Science (EDU) Lab	1 s.h.
NSC 3740.00*	Science Foundations II: Earth Science, Physics, Astronomy (EDU)	3 s.h.

NSC 3740.LB*	Science Foundations II: Astronomy, Earth Science, and Physics (EDU) Lab	1 s.h.
PED 3040	Physical Education and Health for the Elementary Classroom Teacher (EDU)	3 s.h.
PSY 1010*	General Psychology	3 s.h.
PSC 1510*	American Government	3 s.h.
SOC 1020*	Introduction to Sociology	3 s.h.
SSC 3070	Social Studies Foundations (EDU)	3 s.h.
WL 2710	Language Acquisition	<u>2 s.h.</u>
		44 s.h.

*Starred courses meet Core Curriculum goals.

Note: Students who complete all certification requirements for an Elementary Standard Certificate with an Early Childhood Education Major, must successfully pass two of the concentration grade band MTTC examinations:

B-K (ZN) MTTC #134;
PK-3 (ZO) MTTC #118, 119, 120 and either 117 or 121;
3-6 (ZP) MTTC #122, 123, 124 and either 117 or 121.

ENGLISH

See also offerings in Journalism and Public Relations, English Language Arts, and Writing.

English Major: Bachelor of Arts (36 s.h.)

REQUIRED MAJOR COURSES:

ENG 2230	World Literature	3 s.h.
ENG 2700	Critical Writing and Literary Analysis	3 s.h.
ENG 3110	American Literature I: Beginnings to the Civil War	3 s.h.
ENG 3120	American Literature II: The Post-Civil War to the Present	3 s.h.
ENG 3630	British Literature I: Medieval to Renaissance	3 s.h.
ENG 3640	British Literature II: Restoration to the Present	3 s.h.
ENG 4450	African American Literature	3 s.h.
ENG 4460	Ethnic American Literature	3 s.h.
ENG 4700	Studies in Literature	3 s.h.
ENG 4950	Senior Seminar	3 s.h.
	Major electives to be chosen from:	6 s.h.
ENG 2080	Approaches to Grammar (3 s.h.)*	
ENG 2620	Language and Culture (3 s.h.)	
ENG 3030	Children's Literature and Drama (3 s.h.)**	
ENG 3500	Studies in Women's Literature (3 s.h.)	
ENG 4040	Literature for Young Adults (3 s.h.)	

36 s.h.

*Required for students seeking elementary or secondary certification.

**Required for students seeking elementary certification.

English Language and Literature Minor (22 s.h.)

REQUIRED MINOR COURSES:

EDU 4221	Seminar for English Minors	1 s.h.
ENG 2230	World Literature	3 s.h.
ENG 2080	Approaches to Grammar	3 s.h.
ENG 2620	Language and Culture	3 s.h.
ENG 2700	Critical Writing and Literary Analysis	3 s.h.
ENG 3110	American Literature I: Beginning to the Civil War	or
ENG 3120	American Literature II: The Post-Civil War to the Present	3 s.h.
ENG 3630	British Literature I: Medieval or Renaissance	or
ENG 3640	British Literature II: Restoration to the Present	3 s.h.

ENG 4450	African American Literature	or	
ENG 4460	Ethnic American Literature		<u>3 s.h.</u>
			22 s.h.

Literature Minor (21 s.h.)

REQUIRED MINOR COURSES:

ENG 2700	Critical Writing and Literary Analysis	3 s.h.
	Electives in literature (see major literature courses)	<u>18 s.h.</u>
		21 s.h.

ENGLISH LANGUAGE ARTS

The English Language Arts major is specifically designed for the Language Arts teacher with concentrations in ELA 5-9 and ELA 7-12. See the EDUCATION listing for full information on teacher certification requirements. Students desiring an English Language Arts major as preparation for graduate study or employment other than teaching should consult with an Arts and Humanities advisor about alternative majors.

English Language Arts Major: Bachelor of Arts (51 s.h.)

REQUIRED MAJOR COURSES:

ENG 2080	Approaches to Grammar	3 s.h.
ENG 2620	Language and Culture	3 s.h.
ENG 2700	Critical Writing and Literary Analysis	3 s.h.
ENG 4040	Literature for Young Adults (EDU)	3 s.h.
ENG 4450	African American Literature (3 s.h.), or	
ENG 4460	Ethnic American Literature (3 s.h.)	3 s.h.
ENG 4950	Senior Seminar	3 s.h.
JRN 4010	Mass Communication (BCA/COM)	3 s.h.

Required Anchor Grade Band Concentration – ELA 5-9

ELA 5-9 Grade Band Concentration (12 s.h.)

COM 1050	Communication: Concepts and Contexts (3 s.h.), or	
COM 2550	Oral Interpretation of Literature (ENG)(3 s.h.)	3 s.h.
COM 2120	Interpersonal Communication (3 s.h.), or	
COM 2350*	Public Speaking: Theory and Practice (3 s.h.), or	
COM 3100	Small Group Communication (3 s.h.)	3 s.h.
ENG 3030	Children's Literature and Drama (COM)	3 s.h.
JRN 1320	News Reporting (3 s.h.), or	
WRT 2050*	Creative Writing (3 s.h.)	3 s.h.

Required Second Grade Band Concentration – ELA 7-12

ELA 7-12 Grade Band Concentration (18 s.h.)

COM 2140	Argumentation and Persuasion	3 s.h.
COM 2550	Oral Interpretation of Literature(ENG)(3 s.h.) or	
COM 2350	Public Speaking: Theory and Practice (3 s.h.), or	
COM 3100*	Small Group Communication (3 s.h.)	3 s.h.
ENG 3110	American Literature I: Beginnings to the Civil War	3 s.h.
ENG 3120	American Literature II: Post Civil War to the present	3 s.h.
ENG 2230	World Literature (3 s.h.), or	
ENG 3630	British Literature I: Medieval to Renaissance (3 s.h.)	3 s.h.
JRN 3570	Editing and Design (3 s.h.), or	
WRT 2050*	Creative Writing (3 s.h.)	3 s.h.

51 s.h.

* COM 2550, COM 2350, COM 3100, and WRT 2050 each may only be used to satisfy one of the concentrations.

Note: Students who complete all certification requirements for a Secondary Standard Certificate with English Language Arts Major, must successfully pass two of the concentration grade band MTTC examinations:

5-9 (TBA) MTTC II #TBA
7-12 (TBA) MTTC II # TBA

ENGLISH/JOURNALISM

English/Journalism Minor (24 s.h.)

REQUIRED MINOR COURSES:

ENG 2700	Critical Writing and Literary Analysis	3 s.h.
JRN 1320	News Reporting (WRT)	3 s.h.
JRN 3570	Editing and Design	3 s.h.
	Minor electives in English	9 s.h.
	Minor electives in Journalism	<u>6 s.h.</u>
		24 s.h.

ENVIRONMENTAL SCIENCE

Environmental Science Major: Bachelor of Science

(53-54 s.h.)

REQUIRED MAJOR COURSES:

BIO 1030.00	General Biology I	3 s.h.
BIO 1030.LB	General Biology I Lab	1 s.h.
BIO 1040.00	General Biology II	3 s.h.
BIO 1040.LB	General Biology II Lab	1 s.h.
CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1120.00	General Chemistry II	3 s.h.
CHM 1120.LB	General Chemistry II Lab	1 s.h.
ENV 4950	Senior Seminar	2 s.h.
	Major electives to be chosen from:	5 s.h.
BIO 2260.00	Microbiology (3 s.h.)	
BIO 2260.LB	Microbiology Lab (1 s.h.)	
CHM 3610.00	Biochemistry I (BIO) (3 s.h.)	
CHM 3610.LB	Biochemistry I (BIO) (1 s.h.)	
ENV 2930	Internship in Environmental Science (1-4 s.h.)	
NFS 3312	Introduction to Sustainable Food Systems and Nutrition (ENV) (2 s.h.)	
ENV 4700	Environmental Investigation (1-4 s.h.)	
ESS 2160.00	Earth Science (3 s.h.)	
ESS 2160.LB	Earth Science Lab (1 s.h.)	
WRT 2440	Technical Writing (3 s.h.)	

Required Concentration, select from (see below): 30-31 s.h.

Environmental Analysis (31 s.h.)

Environmental Studies (30 s.h.)

53-54 s.h.

Required Concentration – select one from:

Environmental Analysis Concentration (31 s.h.)

CHM 2210.00	Organic Chemistry I	3 s.h.
CHM 2210.LB	Organic Chemistry I Lab	1 s.h.
CHM 2220.00	Organic Chemistry II	3 s.h.
CHM 2220.LB	Organic Chemistry II Lab	1 s.h.
ENV 3210.00	Limnology: The Study of Lakes	2 s.h.
ENV 3210.LB	Limnology: The Study of Lakes Lab	1 s.h.
ENV 3320.00	Environmental Analysis	3 s.h.
ENV 3320.LB	Environmental Analysis Lab	1 s.h.
ENV 4710.00	Environmental Pollutions	3 s.h.
ENV 4710.LB	Environmental Pollution Lab	1 s.h.
ESS 3260.00	Meteorology	3 s.h.
ESS 3260.LB	Meteorology Lab	1 s.h.
PHY 2530.00	General Physics I (3 s.h.), and	
PHY 2530.LB	General Physics I Lab (1 s.h.)	
	or	

PHY 2630.00 Physics for Scientists & Engineers I* (3 s.h.), and PHY 2630.LB Physics for Scientists & Engineers I* Lab (1 s.h.)	4 s.h.
PHY 2540.00 General Physics II (3 s.h.) and PHY 2540.LB General Physics II Lab (1 s.h.) or PHY 2640.00 Physics for Scientists & Engineers II* (3 s.h.) and PHY 2640.LB Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.

Environmental Studies Concentration (30 s.h.)

ANS 3050 Human-Animal Conflicts	3 s.h.
BIO 2100 Human Ecology	3 s.h.
BIO 3220.00 General Ecology	3 s.h.
BIO 3220.LB General Ecology Lab	1 s.h.
ENV 2110** Greenhouse Explorations (BIO)	3 s.h.
ENV 3230 Geographic Information Systems (BIO)	3 s.h.
NFS 3312 Introduction to Sustainable Food Systems and Nutrition (ENV)	2 s.h.
ESS 2040 Oceans	3 s.h.
HUM 3410 Sustainability: Vision and Values	3 s.h.
HUM 4300 Humane Studies	3 s.h.
RST 4090 Environmental Ethics	3 s.h.

REQUIRED SUPPORT COURSES (9 s.h.):

MTH 1210 Precalculus (5 s.h.) or MTH 2510 Calculus with Analytic Geometry I (5 s.h.)	5 s.h.
MTH 2350 Probability and Statistics	4 s.h.

* Students planning graduate study are advised to select PHY 2630.00 and PHY 2630 LB, and PHY 2640.00 and PHY 2640.LB in their plans.

** Students participating in the Greenhouse Explorations must secure approval from the Environmental Science program Director.

Environmental Science for Animal Studies and Biology Majors, Minor (24 s.h.)

REQUIRED MINOR COURSES:

CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
ENV 3210.00 Limnology: The Study of Lakes	2 s.h.
ENV 3210.LB Limnology: The Study of Lakes Lab	1 s.h.
ENV 3320.00 Environmental Analysis	3 s.h.
ENV 3320.LB Environmental Analysis Lab	1 s.h.
ENV 4710.00 Environmental Pollutions	3 s.h.
ENV 4710.LB Environmental Pollution Laboratory	1 s.h.
ESS 3260.00 Meteorology	3 s.h.
ESS 3260.LB Meteorology Lab	1 s.h.
Minor electives (see major for choices)	<u>1 s.h.</u>
	24 s.h.

Environmental Science for Chemistry Majors, Minor (24 s.h.)

REQUIRED MINOR COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
ENV 3210.00 Limnology: The Study of Lakes	2 s.h.

ENV 3210.LB Limnology: The Study of Lakes Lab	1 s.h.
ENV 3320.00 Environmental Analysis	3 s.h.
ENV 3320.LB Environmental Analysis Lab	1 s.h.
ENV 4710.00 Environmental Pollutions	3 s.h.
ENV 4710.LB Environmental Pollution Lab	1 s.h.
ESS 3260.00 Meteorology	3 s.h.
ESS 3260.LB Meteorology Lab	1 s.h.
Minor electives (see major for choices)	<u>1 s.h.</u>
	24 s.h.

REQUIRED SUPPORT COURSE (4 s.h.):

MTH 2350 Probability and Statistics	4 s.h.
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Sustainability Studies Certificate of Completion (9 s.h.)

The undergraduate Certificate in Sustainability Studies provides professional expertise in three areas vital for a successful career in most businesses of today: sustainability, grant writing, and corporate ethics and responsibility. It enhances marketability of those seeking employment in environmentally conscious organizations.

REQUIRED CERTIFICATE COURSES:

BIO 2100 Human Ecology	3 s.h.
HUM 3410 Sustainability: Vision and Values (RST/SOC)	3 s.h.
HUM 4300 Humane Studies (SOC)	<u>3 s.h.</u>
	9 s.h.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

ESSENTIALS IN END-OF-LIFE CARE

Essentials in End-of-Life Care Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

HSP 2210 Introduction to Palliative/End-of-Life Care Concepts	3 s.h.
HSP 3310 Management of the Bereavement Process	3 s.h.
HSP 3480 Psychosocial Domains of Palliative/End-of-Life Care (PSY)	3 s.h.
HSP 3500 Spiritual and Ethical Considerations in Palliative/End-of-Life Care	3 s.h.
HSP 4750 Emerging Issues in Palliative/End-of-Life Care	<u>3 s.h.</u>
	15 s.h.

EXERCISE AND SPORT SCIENCE

The Exercise and Sport Science major, Bachelor of Science, at Madonna University integrates rigorous scientific inquiry with practical, hands-on application. Students develop a mastery of human anatomy and physiology, enabling them to design evidence-based fitness programs, conduct clinical health assessments, and implement critical safety and first-aid protocols. Through a blend of classroom theory and experiential learning, graduates emerge as wellness leaders prepared to optimize human performance across diverse populations—from youth and elite athletes to the elderly. This major provides a robust foundation for those pursuing professional certifications or advanced clinical degrees such as Athletic Training, Occupational Therapy, and Physical Therapy.

Exercise and Sport Science Major: Bachelor of Science (43 s.h.)

REQUIRED MAJOR COURSES:

BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Human Anatomy and Physiology II	3 s.h.
BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
NFS 2470 Sports Nutrition (3 s.h.), or	
NFS 2270 Human Nutrition (3 s.h.),	3 s.h.
PED 1200 Introduction to Athletic Training	2 s.h.
PED 2100 Health Fitness Assessment	3 s.h.
PED 2280 First Aid and Safety	2 s.h.
PED 2350 Kinesiology	2 s.h.
PED 2710 Coaching Principles (SM)	3 s.h.
PED 3300 Psychological Aspects of Fitness	3 s.h.
PED 3370 Cardio and Strength/Conditioning Training	3 s.h.
PED 3400 Physiology of Exercise	3 s.h.
PED 3650 Motor Development and Movement Education	3 s.h.
PED 3700 Exercise Prescription for All Populations	3 s.h.
PED 4930 Practicum in Exercise Science	2 s.h.
SM 3100 Facility Design and Event Management	<u>3 s.h.</u>
	43 s.h.

Exercise and Sport Science Minor (22 s.h.)

The Exercise and Sport Science minor at Madonna University encompasses classes on the basics of physical activity, fitness and other aspects of movement. Students will learn about personal training, health and disease, physical activity and weight control, aging, and the psychological aspects of fitness and nutrition. Specific training on cardiovascular endurance and strength/conditioning will be conducted. Students will engage in a wide range of activities and learn how to perform basic CPR/first aid.

REQUIRED MINOR COURSES:

NFS 2470 Sports Nutrition	3 s.h.
PED 2100 Health Fitness Assessment	3 s.h.
PED 2280 First Aid and Safety	2 s.h.
PED 2350 Kinesiology	2 s.h.
PED 3300 Psychological Aspects of Fitness	3 s.h.
PED 3370 Cardio and Strength/Conditioning Training	3 s.h.
PED 3400 Physiology of Exercise	3 s.h.
PED 3700 Exercise Prescription for All Populations	<u>3 s.h.</u>
	22 s.h.

FILM MUSIC SCORING

See listings under MUSIC.

FILM PRODUCTION

See BROADCAST AND CINEMA ARTS.

FINANCE

The minor in Finance provides students with an understanding of financial and accounting principles, investment theories and practice, and the functions of financial markets. Students learn how a business entity efficiently raises, manages, and invests its funds. Students develop analytical skills to evaluate a firm's financial and investment performance. Additionally, students gain a basic understanding of the principles used in personal financial planning.

Finance Minor (21 s.h.)

REQUIRED MINOR COURSES:

ACC 2010 Principles of Accounting I	3 s.h.
ACC 2020 Principles of Accounting II	3 s.h.

ECN 2730 Principles of Macroeconomics	3 s.h.
FIN 3150 Corporate Finance	3 s.h.
FIN 3210 Investments	3 s.h.
FIN 3700 Life Cycle Financial Planning (FCS)	3 s.h.
FIN 4120 Money and Banking	<u>3 s.h.</u>
	21 s.h.

FINE ARTS

See listing under ART.

FORENSIC ACCOUNTING

See listing under ACCOUNTING or CRIMINAL JUSTICE.

FORENSIC PSYCHOLOGY

See listing under PSYCHOLOGY or CRIMINAL JUSTICE.

FORENSIC SCIENCE

Forensic Science Major: Bachelor of Science (32 s.h.)

Students interested in a Forensic Science major must complete a pre-forensic science block of courses with a minimum of a 2.75 GPA in the block, in order to be eligible to apply for acceptance into the Forensic Science Program.

Transfer students with over 60 semester hours completed at other institutions and post-degree students, to be admitted with the intent to pursue the pre-forensics path, must have a cumulative GPA of at least 2.8, have completed at least 2/3 of all course work attempted, and be in good academic and personal standing at prior institutions.

PRE-FORENSIC SCIENCE COURSES:

BIO 1030.00 General Biology I (3 s.h.)	
BIO 1030.LB General Biology I Lab (1 s.h.)	
CHM 1110.00 General Chemistry I (3 s.h.)	
CHM 1110.LB General Chemistry I Lab (1 s.h.)	
CHM 1120.00 General Chemistry II (3 s.h.)	
CHM 1120.LB General Chemistry II Lab (1 s.h.)	
CHM 2210.00 Organic Chemistry I (3 s.h.)	
CHM 2210.LB Organic Chemistry I Lab (1 s.h.)	
FOR 1010.00 Introduction to Forensic Science (3 s.h.)	
FOR 1010.LB Introduction to Forensic Science Lab (1 s.h.)	
MTH 2350 Probability and Statistics (4 s.h.)	
MTH 2510 Calculus with Analytic Geometry I (5 s.h.)	
WRT 1020 College Composition II (3 s.h.)	

REQUIRED MAJOR COURSES (32 s.h.):

FOR 2100 Research Methods in Forensic Science	1 s.h.
FOR 3040 Criminal Law and Procedure (CJ*)	3 s.h.
FOR 3410.00 Impression and Trace Evidence Analysis	3 s.h.
FOR 3410.LB Impression and Trace Evidence Analysis Lab	1 s.h.
FOR 3420.00 Firearm and Tool Mark Analysis	3 s.h.
FOR 3420.LB Firearm and Tool Mark Analysis Lab	1 s.h.
FOR 3430.00 Introduction to Forensic Anthropology (3 s.h.) and	
FOR 3430.LB Introduction to Forensic Anthropology Lab (1 s.h.)	
or	
FOR 4640.00 Toxicology (BIO) (3 s.h.) and	
FOR 4640.LB Toxicology (BIO) (1 s.h.)	4 s.h.
FOR 4520.00 Forensic Biology (BIO)	3 s.h.
FOR 4520.LB Forensic Biology Lab (BIO)	1 s.h.
FOR 4540.00 Forensic Chemistry (CHM)	3 s.h.
FOR 4540.LB Forensic Chemistry Lab (CHM)	1 s.h.
FOR 4650.00 Ethics and Expert Testimony	2 s.h.

FOR 4650.LB Ethics and Expert Testimony Lab	1 s.h.
FOR 4950 Senior Seminar	2 s.h.
Electives, selected from	3 s.h.
BIO 2260.00 Microbiology (3 s.h.)	
BIO 2260.LB Microbiology Lab (1 s.h.)	
FOR 3210 Principles of Criminology (CJ*/SOC) (3 s.h.)	
FOR 3430.00 Introduction to Forensic Anthropology (3 s.h.)	
FOR 3430.LB Introduction to Forensics Anthropology Lab (1 s.h.)	
FOR 4010 Population Genetics (BIO*) (3 s.h.)	
FOR 4640.00 Toxicology (BIO) (3 s.h.)	
FOR 4640.LB Toxicology (BIO) (1 s.h.)	
FOR 4910, 4920 Co-op (2-6 s.h.)	
FOR 4930 Internship (1-4 s.h.)	
	32 s.h.

REQUIRED SUPPORT COURSES (31 s.h.):

BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4410.00 Molecular Biology	2 s.h.
BIO 4410.LB Molecular Biology Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.
CHM 4510.00 Instrumental Analysis	3 s.h.
CHM 4510.LB Instrumental Analysis Lab	1 s.h.
PHY 2530.00 General Physics I (3 s.h.) and	
PHY 2530.LB General Physics I Lab (1 s.h.)	
or	
PHY 2630.00 Physics for Scientists & Engineers I (3 s.h.) and	
PHY 2630.LB Physics for Scientists & Engineers I Lab (1 s.h.)	
	4 s.h.
PHY 2540.00 General Physics II (3 s.h.) and	
PHY 2540.LB General Physics II Lab (1 s.h.)	
or	
PHY 2640.00 Physics for Scientists & Engineers II (3 s.h.) and	
PHY 2640.LB Physics for Scientists & Engineers II Lab (1 s.h.)	
	4 s.h.

REQUIRED MINOR:

At least one minor in Biology for Forensic Science Majors or Chemistry for Forensic Science Majors is required with the Forensic Science major. Both minors are strongly recommended for students interested in pursuing Forensic Medicine.

Note: students who complete a Criminal Justice major or minor in conjunction with the Forensic Science major may not include CJ courses in the Forensic Science major. Review the rule When Courses May Satisfy More Than One Requirement in this catalog.

Biology for Forensic Science Majors, Minor (26 s.h.)

REQUIRED MINOR COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Human Anatomy and Physiology I	3 s.h.

BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4010 Population Genetics (FOR) or	
BIO 4640 Toxicology (FOR*)	3 s.h.
BIO 4410.00 Molecular Biology	2 s.h.
BIO 4410.LB Molecular Biology Lab	<u>1 s.h.</u>
	26 s.h.

Chemistry for Forensic Science Majors, Minor (20 s.h.)

REQUIRED MINOR COURSES:

CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I (BIO) Lab	1 s.h.
CHM 4510.00 Instrumental Analysis	3 s.h.
CHM 4510.LB Instrumental Analysis Lab	<u>1 s.h.</u>
	20 s.h.

ADDITIONAL PROGRAM REQUIREMENTS:

- Hepatitis A/B immunization
- Background check
- Participation in a national standardized assessment examination (e.g., American Board of Criminalistics) prior to graduation.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. *(This policy is general across all Science and Mathematics programs.)*

Crime Scene Practice Certificate of Completion (16 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020 Introduction to Criminal Justice	3 s.h.
CJ 3040 Criminal Law and Procedure (FOR)	3 s.h.
CJ 4230 Homicide Investigation	3 s.h.
CJ 4450 Interviewing and Investigative Report Writing	3 s.h.
FOR 1010.00 Introduction to Forensic Science	3 s.h.
FOR 1010.LB Introduction to Forensic Science Lab	<u>1 s.h.</u>
	16 s.h.

DNA Analysis Certificate of Completion (22 s.h.)

REQUIRED CERTIFICATE COURSES:

BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4010 Population Genetics (FOR)	3 s.h.
BIO 4410.00 Molecular Biology	2 s.h.
BIO 4410.LB Molecular Biology Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.
FOR 4520.00 Forensic Biology (BIO)	3 s.h.
FOR 4520.LB Forensic Biology Lab (BIO)	1 s.h.
MTH 2350 Probability and Statistics	<u>4 s.h.</u>
	22 s.h.

Crime Laboratory Technician Certificate of Achievement (33 s.h.)

CERTIFICATE REQUIREMENTS:

FOR 1010.00 Introduction to Forensic Science	3 s.h.
FOR 1010.LB Introduction to Forensic Science Lab	1 s.h.
FOR 3410.00 Impression and Trace Evidence Analysis	3 s.h.
FOR 3410.LB Impression and Trace Evidence Analysis Lab	1 s.h.
FOR 3420.00 Firearm and Tool Mark Analysis	3 s.h.
FOR 3420.LB Firearm and Tool Mark Analysis Lab	1 s.h.

FOR 3430.00 Introduction to Forensic Anthropology (3 s.h.) and	
FOR 3430.LB Introduction to Forensic Anthropology Lab(1 s.h.)	
or	
FOR 4640.00 Toxicology (BIO) (3 s.h.) and	
FOR 4640.LB Toxicology (BIO) (1 s.h.)	4 s.h.
FOR 4520.00 Forensic Biology (BIO)	3 s.h.
FOR 4520.LB Forensic Biology (BIO) Lab	1 s.h.
FOR 4540.00 Forensic Chemistry (CHM)	3 s.h.
FOR 4540.LB Forensic Chemistry (CHM) Lab	1 s.h.
FOR 4650.00 Ethics and Expert Testimony	2 s.h.
FOR 4650.LB Ethics and Expert Testimony Lab	1 s.h.
WRT 1010 College Composition I	3 s.h.
Certificate electives chosen from	3 s.h.
FOR 3040 Criminal Law and Procedure (CJ*)	(3 s.h.)
FOR 3210 Principles of Criminology (CJ*/SOC)	(3 s.h.)
FOR 3430.00 Introduction to Forensic Anthropology (3 s.h.)	
FOR 3430.LB Introduction to Forensic Anthropology Lab (1 s.h.)	
FOR 4150 Criminal Investigation (CJ*) (3 s.h.)	
FOR 4640.00 Toxicology (BIO) (3 s.h.)	
FOR 4640.LB Toxicology (BIO) (1 s.h.)	
	33 s.h.

Forensic Science Post-Bachelor Certificate of Achievement (minimum 30 s.h.)

The Post-Bachelor Certificate of Achievement in Forensic Science is available to degree-holding students whose prior degree majors are too heavy in science to allow a Second Bachelor program in Forensic Science.

REQUIRED CERTIFICATE COURSES:

Each student's plan is individually written to cover those courses of the total 106-109 s.h. listed that were not taken for the original bachelor degree. The plan requires all of the following courses not previously completed with a grade of C (2.0) or better:

Forensic Science Required Major Courses	35-36 s.h.
Forensic Science Required Support Courses	47 s.h.
Required Minor Courses	24-26 s.h.
RST 4110 Medical Ethics (PHL) or	
RST 4140 Life/Death Issues	<u>3-4 s.h.</u>
	minimum 30 s.h.

While the minimum requirement for the certificate is 30 s.h. post-bachelor at Madonna University, meeting all requirements makes the plans of some students longer. For those for whom the plan might be short, additional courses to fulfill the 30 s.h. residency requirement are available from the Forensic Science electives group.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (*This policy is general across all Science and Mathematics programs.*)

GENERAL MUSIC

See listing under MUSIC.

GENERAL STUDIES

General Studies Major: Bachelor of Arts (30 s.h.)

REQUIRED MAJOR COURSES:

GST 3020 Introduction to General Studies	3 s.h.
GST 4950 General Studies Senior Seminar	3 s.h.
Arts & Humanities courses	6 s.h.
Natural Sciences courses	6 s.h.
Social Sciences courses	6 s.h.
Electives, approved by advisor	<u>6 s.h.</u>
	30 s.h.

Notes: 1) All courses in the major must be approved by the Program Advisor. 2) A minimum of 12 s.h. in the major must be Upper Division courses. 3) At least 50% of the major requirements must be completed in residence* at Madonna University. *For more on residency, see Residency section in this catalog.

General Studies Major: Associate of Arts (31 s.h.)

REQUIRED MAJOR COURSES:

PSC 1510 American Government	3 s.h.
WRT 1010 College Composition I	3 s.h.
WRT 1020 College Composition II	3 s.h.
Arts & Humanities electives	6 s.h.

Choose two from:

- AHIS 2020 Monuments, Media, and Culture in World Art (3 s.h.)
- ENG 2230 World Literature (3 s.h.)
- MUS 2020 Music Through the Ages (3 s.h.)
- Any Spanish (SPA) course (3-4 s.h.)

Mathematics elective	3 s.h.
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Any MTH course, MTH 1050 or higher

Science electives (*must choose one Biological and one Physical Science; one must have a lab; labs must be taken with lectures*) 7 s.h.

Biological Science - Choose from:

- NFS 2270 Human Nutrition (FCS) (3 s.h.)
- NSC 3730.00* Science Foundations I (EDU) (3 s.h.)
- NSC 3730.LB* Science Foundations I Lab (1 s.h.)
- BIO ... Or, any course in BIO

Physical Science - Choose from:

- ESS 2040 Oceans (3 s.h.)
- ESS 3290.00* Principles of Astronomy (3 s.h.)
- ESS 3290.LB* Principles of Astronomy Lab (1 s.h.)
- NSC 3740.00* Science Foundations II (EDU) (3 s.h.)
- NSC 3740.LB* Science Foundations II (EDU) (1 s.h.)
- CHM ... Or, any course in CHM.

*These courses include a Laboratory Science Experience.

Social Sciences electives (*must choose two courses from different disciplines*) 6 s.h.

- AGE 1070 Introduction to the Aging Experience (3 s.h.)
- CJ 3210 Principles of Criminology (FOR/SOC) (3 s.h.)
- LAW 2100 Law, Society and Politics (PSC/SOC) (3 s.h.)
- PSY 1010 General Psychology (3 s.h.)
- PSY 2660 Social Psychology (3 s.h.)
- SOC 1020 Introduction to Sociology (3 s.h.)
- SOC 2020 Social Problems (3 s.h.)
- SW 3400 Human Behavior in the Social Environment I (3 s.h.)

31 s.h.

GERONTOLOGY

All students working toward a minor or certificate in Gerontology are required to complete a series of approved professional contacts. This assures that each student has been introduced to a wide range of current programs, services, and organizations available in the field of gerontology.

Gerontology Minor (20 s.h.)*

REQUIRED MINOR COURSES:

AGE 1070	Introduction to the Aging Experience	3 s.h.
	Minor electives**	<u>17 s.h.</u>
		20 s.h.

*A minimum of 8 s.h. must be in upper division courses at Madonna University.

**AGE 4760 and 4770 may not be used to satisfy the minor elective requirements.

Aging and Older Adults Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

AGE 1070	Introduction to the Aging Experience	3 s.h.
AGE 3070	Psychology of Midlife and Aging (PSY)	3 s.h.
AGE 3150	How and Why the Body Ages	<u>3 s.h.</u>
		9 s.h.

Care Management for the Older Adults Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

AGE 1070	Introduction to the Aging Experience	3 s.h.
AGE 2300	Programs and Services for Older Adults	3 s.h.
AGE 3110	Alzheimer's Disease and Dementia Care	3 s.h.
AGE 3900	Care Management for Older Adults	<u>3 s.h.</u>
		12 s.h.

Dementia Care Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

AGE 1070	Introduction to the Aging Experience	3 s.h.
AGE 3110	Alzheimer's Disease and Dementia Care	3 s.h.
AGE 3900	Care Management for Older Adults	<u>3 s.h.</u>
		9 s.h.

Note: All AGE courses have been approved for continuing education credit in the renewal of the Nursing Home Administrator License.

GRAPHIC DESIGN

See listing under ART.

HISTORY

History Major: Bachelor of Arts (30 s.h.)

The study of history will teach you to respond to open-ended, real-life problems related to a wide variety of human experiences in time. You will learn valuable techniques of analysis, synthesis, inquiry, research, and writing, which will prepare you for many career options, in the areas of education, law, government, and others. Note: Teacher certification candidates are referred to the major in Social Studies, rather than History, for a teaching certificate major.

REQUIRED MAJOR COURSES:

HIS 1090	Ancient and Medieval World	3 s.h.
HIS 2320	United States to 1900	3 s.h.
HIS 2760	Michigan History	3 s.h.

HIS 3310	Early Modern World: Age of Discovery and Revolution	3 s.h.
HIS 3320	Modern World	3 s.h.
HIS 3420	Minority Groups in America	3 s.h.
HIS 4320	Foreign Policy History of the United States	3 s.h.
HIS 4540	United States in the Modern Era	3 s.h.
SSC 4960	Social Science Seminar	3 s.h.
	Major electives, choose o	
HIS 4633	Global Studies: Modern Latin America (PSC)(3 s.h.)	or
HIS 4635	Global Studies: Comparative History of Modern World Regions (PSC) (3 s.h.)	<u>3 s.h.</u>
		30 s.h.

History Minor (21 s.h.)

An introduction to main themes related to the historical experiences of the United States and World cultures, developing techniques of open-ended problem-solving, interpretation, and writing. The History Minor is designed to supplement professional majors.

REQUIRED MINOR COURSES:

HIS 1090	Ancient and Medieval World	3 s.h.
HIS 2320	United States to 1900	3 s.h.
HIS 2760	Michigan History	3 s.h.
HIS 3310	Early Modern World: Age of Discovery and Revolution	3 s.h.
HIS 3320	Modern World	3 s.h.
HIS 3420	Minority Groups in America	3 s.h.
HIS 4540	United States in the Modern Era	<u>3 s.h.</u>
		21 s.h.

American History and Government Certificate of Completion (9 s.h.)

An examination of American History and traditions of government with an emphasis on the ideals and experiences of the American people.

REQUIRED CERTIFICATE COURSES:

HIS 2320	United States to 1900	3 s.h.
HIS 4540	United States in the Modern Era	3 s.h.
PSC 1510	American Government	<u>3 s.h.</u>
		9 s.h.

World History Certificate of Completion (9 s.h.)

Study the major historical events, personalities and themes of selected world cultures from their earliest days to the present, with special attention to the diversity and commonality of human experiences in time.

REQUIRED CERTIFICATE COURSES:

HIS 1090	Ancient and Medieval World	3 s.h.
HIS 3310	Early Modern World: Age of Discovery and Revolution	3 s.h.
HIS 3320	Modern World	<u>3 s.h.</u>
		9 s.h.

HOMELAND SECURITY

See listing under CRIMINAL JUSTICE.

HOSPICE AND PALLIATIVE STUDIES

See ESSENTIALS IN END-OF-LIFE CARE.

HUMANE STUDIES

See listing under SOCIOLOGY.

INFANT-TODDLER CAREGIVER

See listing under CHILDREN AND FAMILIES.

INSTRUCTION OF ENGLISH LANGUAGE LEARNERS K-12

See listing under EDUCATION.

INSTRUMENTAL PERFORMANCE

See listing under MUSIC.

INTEGRATED SCIENCE

The Integrated Science major is especially intended for the Secondary (grades 6-12) science teacher. It is a comprehensive major and does not require a minor for teacher certification.

Students selecting not to pursue the Education Concentrations can complete the degree with only the chosen content concentration.

Integrated Science Major: Bachelor of Science (60-79 s.h.)

REQUIRED CORE COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
BIO 2250 Basic Human Physiology	3 s.h.
BIO 3220.00 General Ecology	3 s.h.
BIO 3220.LB General Ecology Lab	1 s.h.
ESS 2160.00 Earth Science	3 s.h.
ESS 2160.LB Earth Science Lab	1 s.h.
ESS 2040 Oceans	3 s.h.
ESS 3290.00 Principles of Astronomy	3 s.h.
ESS 3290.LB Principles of Astronomy Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
PHY 2530.00 General Physics I (3 s.h.) and PHY 2530.LB General Physics I Lab (1 s.h.)	
or	
PHY 2630.00 Physics for Scientists & Engineers I** (3 s.h.) and PHY 2630.LB Physics for Scientists & Engineers I Lab** (1 s.h.)	4 s.h.
PHY 2540.00 General Physics II (3 s.h.) and PHY 2540.LB General Physics II Lab (1 s.h.)	
or	
PHY 2640.00 Physics for Scientists & Engineers II** (3 s.h.) and PHY 2640.LB Physics for Scientists & Engineers II Lab** (1 s.h.)	<u>4 s.h.</u> 46 s.h.

Biology (14 s.h.), or
Chemistry (14 s.h.) or
Physics** (14 s.h.) 14 s.h.

Teacher Education Candidates must also choose both Integrated Science Grade Band Concentrations

19 s.h.
60-79 s.h.

Biology Concentration (14 s.h.)

BIO 2260.00 Microbiology (3 s.h.) and BIO 2260.LB Microbiology Lab (1 s.h.)	4 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 4950 Senior Seminar	2 s.h.
MTH 2350 Probability and Statistics	4 s.h.

Chemistry Concentration (14 s.h.)

CHM 2220.00 Organic Chemistry II (3 s.h.) and CHM 2220.LB Organic Chemistry II Lab (1 s.h.)	
or	
CHM 3610.00 Biochemistry I (BIO) (3 s.h.) and CHM 3610.LB Biochemistry I Lab (BIO) (1 s.h.)	4 s.h.
CHM 3310.00 Quantitative Analysis	3 s.h.
CHM 3310.LB Quantitative Analysis Lab	1 s.h.
CHM 3510 Advanced Inorganic Chemistry	4 s.h.
CHM 4950 Senior Seminar	2 s.h.

Physics Concentration** (14 s.h.)

PHY 2710.00 Fundamental Electronics	3 s.h.
PHY 2710.LB Fundamental Electronics Lab	1 s.h.
PHY 3510.00 Modern Physics: Atomic and Nuclear	3 s.h.
PHY 3510.LB Modern Physics: Atomic and Nuclear Lab	1 s.h.
PHY 4510.00 Electronics: Digital Techniques (3 s.h.) and PHY 4510.LB Electronics: Digital Techniques Lab (1 s.h.)	4 s.h.
NSC 4950 Senior Seminar	2 s.h.

** Students completing the Integrated Science major with a Physics emphasis must select PHY 2630.00 and PHY 2630.LB and PHY 2640.00 and PHY 2640.LB in the Core courses and MTH 2510 in the Required Support Courses.

Integrated Science Education Concentrations (23 s.h.):

Required Anchor Band

Grade Band ISE 7-12

EDU 4774 Directed Teaching: Integrated Science (7-12)	<u>4 s.h.</u> 4 s.h.
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Required Second Band

Grade Band ISE 5-9

BIO 3720 Science and Racial Justice	3 s.h.
ESS 3260 Meteorology	4 s.h.
NSC 3730 Science Foundation	4 s.h.
NSC 3740 Science Foundation	<u>4 s.h.</u> 15 s.h.

REQUIRED SUPPORT COURSES:

MTH 1050 College Algebra (4 s.h.)	
or	
MTH 1210 Precalculus (5 s.h.)	
or	
MTH 2510 Calculus with Analytic Geometry I (5 s.h.)	4-5 s.h.

Choose one of the following content concentrations:

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

Note: In addition to the education concentration requirements shown here, teacher candidates must see the Education listing for full information on teacher certification requirements.

*Note: Students who complete all certification requirements for the integrated science education concentration for 5-9 and 7-12 teaching certificates must successfully pass two concentration grade band MTTC examinations:
5-9 (TBA) MTTC # TBA
7-12 (TBA) MTTC # TBA*

INTERDISCIPLINARY STUDIES

See instead GENERAL STUDIES.

INTERNATIONAL BUSINESS & ECONOMICS

The program in International Business and Economics is a degree-completion for students in our outreach center in Dubai and limited to students admitted through Madonna University's partners for the program. On-campus students are referred to the Business Administration major with a concentration in International Business.

International Business and Economics Major: Bachelor of Science (31 s.h.)

REQUIRED MAJOR COURSES:

BUS 3950 Business and Society	3 s.h.
ECN 3940 Economic Geography	3 s.h.
FIN 3150 Corporate Finance	3 s.h.
INB 3140 International Business	3 s.h.
INB 4350 International Trade Structures and Systems	3 s.h.
INB 4450 International Management	3 s.h.
INB 4500 International Business and Culture Experience	3 s.h.
INB 4930 Internship	2 s.h.
PSC 3010 International Relations	4 s.h.
PSC 3210 Comparative Politics	<u>4 s.h.</u>
	31 s.h.

REQUIRED BUSINESS FOUNDATION COURSES (18 S.H.)

ACC 2010 Principles of Accounting I	3 s.h.
ACC 2020 Principles of Accounting II	3 s.h.
BL 3330 Business Law I	3 s.h.
MGT 4950 Business Policy	3 s.h.
MKT 2440 Principles of Marketing	3 s.h.
QS 3550 Applied Business Statistics	3 s.h.

REQUIRED SUPPORT COURSES (31 s.h.):

CIS 2380 Introduction to Computers	3 s.h.
ECN 2720 Principles of Microeconomics	3 s.h.
ECN 2730 Principles of Macroeconomics	3 s.h.
FIN 3700 Life Cycle Financial Planning (FCS)	3 s.h.
MGT 2360 Principles of Management	3 s.h.
MGT 3020 Organizational Behavior	3 s.h.
MGT 3100 Strategic Human Resource Planning	3 s.h.
MGT 3690 Entrepreneurship	3 s.h.
MKT 3730 Principles of Advertising	3 s.h.
MTH 2350 Probability and Statistics	4 s.h.

INTERNATIONAL RELATIONS

International Relations Certificate of Completion (9 s.h.)

The Certificate of Completion in International Relations is designed to provide an additional credential for Political Science majors, an additional credential for those minoring in Political Science, and any student seeking to enhance job marketability in a globalized world.

REQUIRED CERTIFICATE COURSES:

HIS 4320 Foreign Policy History of the United States	3 s.h.
PSC 3030 International Relations	3 s.h.
PSC 3410 Comparative Politics	<u>3 s.h.</u>
	9 s.h.

INTERNATIONAL STUDIES

International Studies Certificate of Completion (18 s.h.)

The Certificate of Completion in International Studies provides students with the opportunity to add significant global and 21st century dimensions to their chosen field of study. This certificate will increase students' marketability by adding a globally-informed perspective to their credential set as they embark on different career paths. Students in any major may add the certificate, and the 18 semester-hour plan of study makes the International Studies certificate a good practical match for many areas of study.

REQUIRED CERTIFICATE COURSES:

WORLD HISTORY

HIS 1090 Ancient and Medieval World (3 s.h.), or	
HIS 3310 Early Modern World (3 s.h.), or	
HIS 3320 Modern World (3 s.h.)	3 s.h.

GLOBAL POLITICS IN INTERDISCIPLINARY PERSPECTIVE

HIS 1010 World Problems (PSC) (3 s.h.) or	
HIS 4633 Global Studies: Modern Latin America (PSC) (3 s.h.), or	
HIS 4635 Global Studies: Comparative History of Modern World Regions (PSC) (3 s.h.), or	
SOC 2020 Social Problems (3 s.h.)	3 s.h.

DIPLOMACY/INTERNATIONAL RELATIONS

HIS 4320 Foreign Policy History of the United States (3 s.h.), or	
PSC 3030 International Relations (3 s.h.)	3 s.h.

PROFESSIONAL PERSPECTIVES

INB 3140 International Business (3 s.h.), or	
Professional Course in Student's Major with International Component (3 s.h.)	3 s.h.

LANGUAGE/HUMANITIES

Any SPA, WL, or SLS class that is at least 3 s.h. or	
ENG 2230 World Literature (3 s.h.), and a study abroad Experience in a country where English is not the dominant language, or	
ENG 2230 World Literature (3 s.h.), and proof of basic conversational proficiency in a language other than English	3 s.h.

INTERNATIONAL STUDIES SEMINAR

INT 4950 International Studies Seminar	<u>3 s.h.</u>
	18 s.h.

Note: Students must also have completed a study abroad experience, which could also involve courses directly applied to one or more of the categories above.

JOURNALISM AND PUBLIC RELATIONS

Journalism and Public Relations Major: Bachelor of Arts (46 s.h.)

REQUIRED MAJOR COURSES:

JRN 1320	News Reporting (WRT)	3 s.h.
JRN 1710	Graphic Design (GDA*)	3 s.h.
JRN 2050	Public Relations Writing	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 3130	Photography I (ART)	3 s.h.
JRN 3160	News Production	2 s.h.
JRN 3570	Editing and Design	3 s.h.
JRN 4010	Mass Communication (BCA/COM)	3 s.h.
JRN 4160	Advanced News Production	2 s.h.
JRN 4750	Special Topics in Journalism/Public Relations	1-3 s.h.
JRN 4910	Journalism/Public Relations Practicum/Cooperative Education	3-12 s.h.
ENG 4950	Senior Seminar	3 s.h.
	Major electives, to be chosen from:	14 s.h.
	GDA 2710 Graphic Design II (3 s.h.)	
	GDA 3740 Graphic Design III (3 s.h.)	
	GDA 4740 Graphic Design IV (3 s.h.)	
	ENG 2080 Approaches to Grammar (3 s.h.)	
	ENG 2620 Language and Culture (3 s.h.)	
	JRN 2100 Media Relations in Sport (SM*) (3 s.h.)	
	JRN 2610 Television Production I (BCA*/COM) (3 s.h.)	
	JRN 3140 Photography II (ART) (3 s.h.)	
	JRN 3150 Photoshop (GDA*/BCA) (3 s.h.)	
	JRN 3610 Television Production II (BCA*/COM) (3 s.h.)	
	JRN 4050 Advanced Public Relations (3 s.h.)	
	MIS 2850 Web Design for Business Applications (3 s.h.)	
	MKT 2440 Principles of Marketing (3 s.h.)	
	MKT 3550 Consumer Behavior (NFS) (3 s.h.)	
	MKT 3870 Sales Management (3 s.h.)	
	MKT 4560 Marketing Management (3 s.h.)	
	WRT 2050 Creative Writing (3 s.h.)	
	WRT 2440 Technical Writing (3 s.h.)	
	WRT 3260 Business and Professional Writing (3 s.h.)	

46 s.h.

Journalism Minor (20 s.h.)

REQUIRED MINOR COURSES:

JRN 1320	News Reporting (WRT)	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 3160	News Production	2 s.h.
JRN 3570	Editing and Design	3 s.h.
JRN 4160	Advanced News Production	2 s.h.
	Minor electives	<u>7 s.h.</u>

20 s.h.

LEGAL ASSISTANT

Listing is now under PARALEGAL STUDIES and NURSE PARALEGAL.

LITIGATION MANAGEMENT

The mission of the Paralegal studies program is to prepare two-year, four-year, and post-baccalaureate students for careers as paralegals. The program teaches paralegal skills in

conjunction with a liberal arts education. This allows graduates to serve a modern, multicultural society with a valuable skill. This mission also includes education B.S.N. – credentialed nurses to become nurses to become paralegals (see listing under NURSE PARALEGAL) and to educate others holding a bachelor's degrees with a specialized certificate in Litigation Management including skills in electronic discovery and other technology used in litigation.

Litigation Management Certificate of Completion (28 s.h.)

REQUIRED CERTIFICATE COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.
LAW 2570	Litigation	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 3780	Law Office Technology	3 s.h.
LAW 2580	Electronic Discovery	3 s.h.
LAW 4720	Evidence	3 s.h.
LAW 4560	Case Preparation and Trial	3 s.h.
LAW 4930	Internship (1 s.h.), or	
LAW 4940	Internship (1 s.h.)	1 s.h.
LAW 4950	Legal Seminar	<u>3 s.h.</u>

28 s.h.

LPN to BSN

See NURSING.

MANAGEMENT

See BUSINESS ADMINISTRATION.

MARKETING

See also the BUSINESS ADMINISTRATION major, Marketing concentration.

The Marketing minor provides an opportunity for non-business administration majors to develop essential knowledge and skills in the dynamic field of marketing.

Marketing Minor (21 s.h.)

REQUIRED MINOR COURSES:

MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.
MKT 3550	Consumer Behavior (NFS)	3 s.h.
MKT 3880	Professional Selling and Sales Management	3 s.h.
MKT 4500	Global Brand Management	3 s.h.
MKT 4560	Marketing Management	<u>3 s.h.</u>

21 s.h.

MATHEMATICS

Mathematics Major: Bachelor of Science (38-46 s.h.)

Applied Mathematics Concentration: 38 s.h.

Mathematics Education Grade Band

Concentration (5-9, 7-12): 48 s.h.

A mathematics major prepares students for graduate school, careers in education or various fields that require mathematical problem solving and reasoning skills in industry. The mathematics major offers two different concentration options: Applied Mathematics and an accredited

Mathematics Education concentration. The degree of Bachelor of Science with either concentration is available only upon completing all the requirements listed below. A student will select one of the two concentrations in consultation with an assigned Mathematics advisor.

REQUIRED MAJOR COURSES:

MTH 2350	Probability and Statistics	4 s.h.
MTH 2460	Discrete Mathematics	4 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
MTH 3300	Abstract Algebra	3 s.h.
MTH 3410	Linear Algebra	3 s.h.
MTH 4650	Foundations of College Geometry	<u>3 s.h.</u>
		26 s.h.

Choose at least one of the following concentrations:
Applied Mathematics (12 s.h.), or
Mathematics Education (20 s.h.)
(Both Grade Bands are required)

12-20 s.h.
38-46 s.h.

Applied Mathematics Concentration:

MTH 2530	Differential Equations	3 s.h.
MTH 3510	Calculus with Analytic Geometry III	4 s.h.
MTH 4510	Introduction to Real Analysis	3 s.h.
MTH 4950	Senior Seminar	<u>2 s.h.</u>
		12 s.h.

REQUIRED SUPPORT COURSE (3 S.H.)

<i>For Applied Mathematics Concentration only</i>		
CSC 2080	Computer Science	3 s.h.

Mathematics Education*

Required Anchor Grade Band

Grade Band Math 7-12 Concentration:

MTH 3330	Algebraic Thinking and Proportional Reasoning	4 s.h.
MTH 4330	Reasoning and Proof in the Mathematics Classroom	2 s.h.
MTH 4340	Technology in the Mathematics Classroom	2 s.h.
MTH 4960	Senior Semi: Social Contexts in Math Education	<u>2 s.h.</u>
		10 s.h.

Required Second Grade Band

Grade Band Math 5-9 Concentration:

MTH 2330	Learning and Teaching Number Concepts (EDU)	3 s.h.
MTH 2340	Learning and Teaching Geometric & Statistical Concepts (EDU)	3 s.h.
MTH 3340	Geometry for Teachers	<u>4 s.h.</u>
		10 s.h.

**In addition to the two grade band education concentration requirements shown here, teacher candidates must see the Education listing for full information on teacher certification requirements. Note: Students who complete all certification requirements for the mathematics education concentration for 5-9 and 7-12 teaching certificate must successfully pass two concentration grade band MTTC examinations:
 5-9 (TBA) MTTC II TBA
 7-12 (TBA) MTTC II TBA*

Mathematics Minor (26 s.h.)

REQUIRED MINOR COURSES:

MTH 2350	Probability and Statistics	4 s.h.
MTH 2460	Discrete Mathematics	4 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
*MTH 3300	Abstract Algebra	3 s.h.
*MTH 3410	Linear Algebra	3 s.h.
*MTH 4650	Foundations of College Geometry	<u>3 s.h.</u>
		26 s.h.

Mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. *(This policy is general across all Science and Mathematics programs.)*

MENTAL HEALTH

See listing under PSYCHOLOGY.

MUSIC

Music Major: Bachelor of Arts (31-43 s.h.)

General Music concentration, or
 Music Management concentration, or
 Musical Theater concentration, or
 Game, Video, and Film Scoring, concentration

Music Education Major: Bachelor of Music (66 s.h.)

Music Performance Major: Bachelor of Music (46-51 s.h.)

Church Music concentration, or
 Instrumental Performance concentration, or
 Piano Performance concentration, or
 Vocal Performance concentration

Music Minor (24 s.h.)

Certificate of Achievement

Piano Pedagogy (30 s.h.)

Certificate of Completion

Film Music Scoring (16 s.h.)
 Musical Theatre (20-21 s.h.)

Madonna University's Music Program prepares students to enter the varying fields of music in performance, composing, business management, and music education. If you decide to enter occupations outside of music, our Music Program also prepares students with a solid foundation in the liberal arts.

We are committed to developing your skills through stimulating classroom, studio, and performing experiences in close working relationship with our faculty. Music studies encompass music theory, music history, pedagogy, stage performance, music education, and an extensive list of applied music opportunities.

All music majors are required to pass an applied music audition in their primary instrument/voice, with the exception of the Music Management concentration in the Music Major, Bachelor of Arts. We recommend that you meet this requirement before beginning the program. Music management concentrators must show sufficient skill in their chosen applied area to be able to succeed in the Theory sequence and the upper division music courses.

Admission Requirements

All prospective students must audition to be accepted into a music degree program

Music Major: Bachelor of Arts (32-40 s.h.)**REQUIRED MUSIC CORE COURSES (19 S.H.):**

MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.
MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 1800	Introduction to Music Technology	2 s.h.
MUS 2130	Theory III	3 s.h.
MUS 2140	Sight-singing and Ear Training III	1 s.h.
MUS 2330	Theory IV	3 s.h.
MUS 2340	Sight-singing and Ear Training IV	1 s.h.
MUS 4960	Senior Seminar in Music	1 s.h.

Concentration, select one from (see below):

General Music (14 s.h.) **or**

Music Business Management (21 s.h.) **or**

Musical Theater (13 s.h.) **or**

Game, Video, and Film Music Scoring (18 s.h.)

13-21 s.h.

32-40 s.h.

Required concentration—Select one concentration from:

General Music (14 s.h.)

MUAP 4010 Orchestration (2 s.h.), **or**

MUAP 4100 Applied Composition (2 s.h.) 2 s.h.

MUS 3330 History of Music Literature I 3 s.h.

MUS 3340 History of Music Literature II 3 s.h.

MUS 4020 Contrapuntal Techniques 2 s.h.

MUS 4030 Form and Analysis 2 s.h.

MUS 4040 Conducting and Performing Techniques (2 s.h.) 2 s.h.

REQUIRED GENERAL MUSIC SUPPORT COURSES (16-18 s.h.):

MUAP Applied Music electives (*instrumental and vocal*) 10 s.h.

Group Performance:

MUAP 1080 Chorale (1 s.h.), **and/or**

MUAP 2610 Lyric Theater (1 s.h.) 4 s.h.

Pedagogy/Diction, choose 2 courses:

MUS 3110 Diction 1: English and Italian (1 s.h.)

MUS 3120 Diction 2: German and French (1 s.h.),

MUS 3540 Piano Pedagogy I (1 s.h.)

MUS 3550 Piano Pedagogy II (1 s.h.)

MUS 3630 String Pedagogy (2 s.h.) **or**

MUS 3650 Woodwinds Pedagogy (2 s.h.)

MUS 3660 Brass Pedagogy (1 s.h.) 2-4 s.h.

RECOMMENDED GENERAL MUSIC SUPPORT COURSES:

GDA 1710 Graphic Design I 3 s.h.

GDA 1720 Digital Imaging 3 s.h.

Music Business Management (21 s.h.)

ACC 2010 Principles of Accounting I 3 s.h.

MGT 2360 Principles of Management 3 s.h.

MGT 3690 Entrepreneurship 3 s.h.

MKT 2440 Principles of Marketing 3 s.h.

MKT 3310 Social Media Marketing 3 s.h.

MUS 3910 Music Management Cooperative Education I 2 s.h.

MUS 4910 Music Management Cooperative Education II 2 s.h.

MUS 4950 Music Management Seminar 2 s.h.

REQUIRED MUSIC BUSINESS MANAGEMENT SUPPORT COURSES

(22 s.h.):

GDA 1710 Graphic Design I 3 s.h.

GDA 1720 Digital Imaging 3 s.h.

MUAP Applied Music electives (*instrumental and vocal*) 6 s.h.

Group Performance:

MUAP 1080 Chorale (1 s.h.), **and/or**

MUAP 2610 Lyric Theater (1 s.h.) 4 s.h.

Music History, choose 1 course

MUS 2020 Music Through the Ages (3 s.h.), **or**

MUS 3330 History of Music Literature I (3 s.h.), **or**

MUS 3340 History of Music Literature II (3 s.h.) 3 s.h.

WRT 3260 Business and Professional Writing 3 s.h.

RECOMMENDED MUSIC BUSINESS MANAGEMENT SUPPORT COURSES:

MKT 3550 Consumer Behavior 3 s.h.

Musical Theatre (13 s.h.)

MUAP 1110 Coaching for the Singer (1 s.h.) 2 s.h.

MUAP 4800.15 Recital: Voice 1 s.h.

MUS 3110 Diction 1: English and Italian 1 s.h.

MUS 4040 Conducting and Performing Techniques 2 s.h.

MUS 4750 Special Topics Music (MT History/Literature) 2 s.h.

MUS 4750 Special Topics Music (Lyric Theatre/Production Assistant) 2 s.h.

TRE 1010 Fundamentals of Acting 3 s.h.

REQUIRED MUSICAL THEATRE SUPPORT COURSES (28 s.h.):

MUAP Applied Voice electives 8 s.h.

MUAP Applied Piano electives 4 s.h.

Group Performance

MUAP 1080 Chorale (1 s.h.) 2 s.h.

MUAP 2610 Lyric Theater (1 s.h.) 5 s.h.

MUS 2020 Music Through the Ages (3 s.h.), **or**

MUS 3340 History of Music Literature II (3 s.h.) 3 s.h.

TRE 2010 Musical Theatre Dance Styles I 2 s.h.

TRE 2020 Musical Theatre Dance Styles II 2 s.h.

TRE 3010 Production Technology 2 s.h.

RECOMMENDED MUSICAL THEATRE SUPPORT COURSES:

GDA 1710 Graphic Design I 3 s.h.

GDA 1720 Digital Imaging 3 s.h.

Game, Video, and Film Music Scoring (18 s.h.)

MUAP 4010 Orchestration 2 s.h.

MUAP 4100 Applied Composition 4 s.h.

MUAP 4770 Film Scoring I* 2 s.h.

MUAP 4780 Film Scoring II 2 s.h.

MUAP 4790 Film Scoring III 2 s.h.

MUS 4020 Contrapuntal Techniques 2 s.h.

MUS 4030 Form and Analysis 2 s.h.

MUS 4040 Conducting and Performing Techniques 2 s.h.

*NOTE: A piano proficiency test is required prior to MUAP 4770

REQUIRED GAME, VIDEO, AND FILM SCORING SUPPORT COURSES:

(36 s.h.):

GDA 1710 Graphic Design 3 s.h.

GDA 1720 Digital Imaging 3 s.h.

BCA 2020 Cinema Studies (COM) 3 s.h.

BCA 2850 Audio for Film, Broadcast, and Media 3 s.h.

BCA 4830 Capstone in Film Production 2 s.h.

MUAP Applied Piano electives 8 s.h.

MUAP	Applied electives	4 s.h.
Group Performance:		
	MUAP 1080 Chorale (1 s.h.), and/or	
	MUAP 2610 Lyric Theater (1 s.h.) and/or	
	MUAP 3620 Ensemble: Instrument Chamber Music (1 s.h.)	4 s.h.
MUS 3330	History of Music Literature I	3 s.h.
MUS 3340	History of Music Literature II	3 s.h.

RECOMMENDED GAME, VIDEO, AND FILM SCORING SUPPORT COURSES:

MKT 3310	Social Media Marketing	3 s.h.
MGT 3690	Entrepreneurship	3 s.h.

Music Business Management Certificate of Completion (18 s.h.)

NOTE: The Music Business Management Certificate of Completion can only be earned along with the Music Major, Bachelor of the Arts, Music Performance Major, Bachelor of Music, or Music Education Major, Bachelor of Music degrees

REQUIRED CERTIFICATE COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3690	Entrepreneurship	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
MKT 3310	Social Media Marketing	3 s.h.
MUS 3910	Music Management Cooperative	1 s.h.
MUS 4950	Music Management Seminar	<u>2 s.h.</u>
		18 s.h.

RECOMMENDED CERTIFICATE COURSES:

GDA 1710	Graphic Design I	3 s.h.
GDA 1720	Digital Imaging	3 s.h.
MKT 3550	Consumer Behavior	3 s.h.

Music Education Major: Bachelor of Music (66 s.h.)

REQUIRED MUSIC CORE COURSES (26 S.H.):

THEORETICAL STUDIES:

MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.
MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 1800	Introduction to Music Technology	2 s.h.
MUS 2130	Theory III	3 s.h.
MUS 2140	Sight-singing and Ear Training III	1 s.h.
MUS 2330	Theory IV	3 s.h.
MUS 2340	Sight-singing and Ear Training IV	1 s.h.
MUS 4020	Contrapuntal Techniques	2 s.h.

HISTORICAL ANALYSIS:

MUS 3330	History of Music Literature I	3 s.h.
MUS 3340	History of Music Literature II	3 s.h.

REQUIRED MAJOR COURSES (40 S.H.):

MUAP	Applied Music electives (instrumental/vocal)	14 s.h.
MUAP	Group Performance*	8 s.h.
MUAP 4800	Senior Recital	1 s.h.
MUS 3110	Diction 1: English and Italian, (1 s.h.) and	
MUS 3120	Diction 2: German and French (1 s.h.) or	
MUAP 4010	Orchestration (2 s.h.)	2 s.h.
MUS 3630	Strings Pedagogy	2 s.h.
MUS 3650	Woodwinds Pedagogy	2 s.h.
MUS 3660	Brass Pedagogy	1 s.h.

MUS 3670	Percussion Pedagogy	1 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4040	Conducting and Performing Techniques	2 s.h.
MUS 4800	Teaching of Music at the Elementary Level	2 s.h.
MUS 4850	Teaching of Music at the Secondary Level	2 s.h.
MUS 4960	Senior Seminar in Music	<u>1 s.h.</u>
		66 s.h.

*(2 semesters of MUAP 2610 required for vocal majors)

RECOMMENDED SUPPORT COURSE (vocal specialists):

GDA 1710	Graphic Design	3 s.h.
GDA 1720	Digital Imaging	3 s.h.
MUS 4070	Choral Techniques	2 s.h.
TRE 1010	Fundamentals of Acting	3 s.h.
TRE 2010	Musical Theatre Dance Styles I (2 s.h.), or	
TRE 2020	Musical Theatre Dance Styles II (2 s.h.)	2 s.h.

Note: Basic proficiency tests in theory, piano, and sight-singing are required of all music education majors after the sophomore level courses are completed.

Note further: The Music Education Concentration major, in conjunction with the Teacher Education Program, results in an endorsement to teach Music Education PreK-12 on a Secondary Standard teaching certificate. Music endorsement is not available on an initial teaching certificate that is Elementary.

Music Performance Major: Bachelor of Music (46-54 s.h.)

REQUIRED MUSIC CORE COURSES (42 S.H.):

MUAP	Minor Voice or Instrument Applied Music elect.	6 s.h.
MUAP 3800	Junior Recital	1 s.h.
MUAP 4010	Orchestration	2 s.h.
MUAP 4800	Senior Recital	1 s.h.
MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.
MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 1800	Introduction to Music Technology	2 s.h.
MUS 2130	Theory III	3 s.h.
MUS 2140	Sight-singing and Ear Training III	1 s.h.
MUS 2330	Theory IV	3 s.h.
MUS 2340	Sight-singing and Ear Training IV	1 s.h.
MUS 3330	History of Music Literature I	3 s.h.
MUS 3340	History of Music Literature II	3 s.h.
MUS 4020	Contrapuntal Techniques	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4040	Conducting and Performing Techniques	2 s.h.
MUS 4750	Special Topics (Literature)	<u>2 s.h.</u>
		42 s.h.

Concentration, select one from (see below):

Church Music-Organ (4 s.h.) **or**
Instrumental Performance (11-12 s.h.) **or**
Piano Performance (8 s.h.) **or**
Vocal Performance (6 s.h.)

4-12 s.h.
46-54 s.h.

NOTE: Junior and Senior Recitals are required of all performance majors. During recital semester, student must be registered for Special Topics (Junior or Senior Recital) and Applied Music in their instrument/voice.

Required concentration—Select one concentration from:

Church Music-Organ (4 s.h.)
MUS 4070 Choral Techniques 2 s.h.

MUS 4170 Church Music	2 s.h.
REQUIRED CHURCH MUSIC-ORGAN SUPPORT COURSES (30 s.h.):	
GDA 1710 Graphic Design I	3 s.h.
GDA 1720 Digital Imaging	3 s.h.
MUAP Major Applied Music electives	16 s.h.
Group Performance:	
MUAP 1080 Chorale (1 s.h., minimum 6 s.h.), and/or	
MUAP 2610 Lyric Theater (1 s.h.)	8 s.h.

Instrumental Performance (11-12 s.h.)

MUAP 3620 Ensemble: Instrument Chamber Music (1 s.h.)	2 s.h.
MUAP 3720 Ensemble: Orchestra/Band (1 s.h.)	6 s.h.
Choose 2 courses (other than Major Instrument – Brass, Piano, Strings, or Winds):	
MUS 3540 Piano Pedagogy I (2 s.h.)	
MUS 3550 Piano Pedagogy II (2 s.h.)	
MUS 3630 String Pedagogy (2 s.h.)	
MUS 3650 Woodwinds Pedagogy (2 s.h.)	
MUS 3660 Brass Pedagogy (1 s.h.)	3-4 s.h.

REQUIRED INSTRUMENTAL PERFORMANCE SUPPORT COURSES

(18 s.h.):

MUAP Major Instrument Applied Music Electives	16 s.h.
Group Performance:	
MUAP 1080 Chorale (1 s.h.), and/or	
MUAP 2610 Lyric Theater (1 s.h.)	2 s.h.

Piano Performance (8 s.h.)

MUAP 3620 Ensemble: Instrument Chamber Music (1 s.h.)	2 s.h.
MUS 3540 Piano Pedagogy I	2 s.h.
MUS 3550 Piano Pedagogy II	2 s.h.
MUS 4750 Special Topics (Accompanying Techniques)	2 s.h.

REQUIRED PIANO PERFORMANCE SUPPORT COURSES (22 s.h.):

MUAP Major Instrument Applied Music electives	16 s.h.
Group Performance:	
MUAP 1080 Chorale (1 s.h.), and/or	
MUAP 2610 Lyric Theater (1 s.h.)	6 s.h.

Vocal Performance (6 s.h.)

MUAP 1110 Coaching for the Singer (1 s.h.)	4 s.h.
MUS 3110 Diction 1: English and Italian	1 s.h.
MUS 3120 Diction 2: German and French	1 s.h.

REQUIRED VOCAL PERFORMANCE SUPPORT COURSES (37 s.h.):

MUAP Major Instrument Applied Music electives	16 s.h.
MUAP Minor Instrument Applied Music electives	6 s.h.
MUAP 1080 Chorale (1 s.h.)	4 s.h.
MUAP 2610 Lyric Theater (1 s.h.)	4 s.h.
TRE 1010 Fundamentals of Acting	3 s.h.
TRE 2010 Musical Theatre Dance Styles I	2 s.h.
TRE 2020 Musical Theatre Dance Styles II	2 s.h.

Music Minor (24 s.h.)

REQUIRED MINOR COURSES:

MUAP	Applied Music electives (majority of hours to be taken in one area)	8 s.h.
MUAP	Group Performance	2 s.h.
MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.

MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 3330	History of Music Literature I	3 s.h.
MUS 3340	History of Music Literature II	<u>3 s.h.</u>
		24 s.h.

Piano Pedagogy Certificate of Achievement (33 s.h.)

REQUIRED CERTIFICATE COURSES:

MUAP 1210	Piano	2 s.h.
MUAP 1220	Piano	2 s.h.
MUAP 2210	Piano	2 s.h.
MUAP 2220	Piano	2 s.h.
MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.
MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 2130	Theory III	3 s.h.
MUS 2140	Sight-singing and Ear Training III	1 s.h.
MUS 3330	History of Music Literature I	3 s.h.
MUS 3340	History of Music Literature II	3 s.h.
MUS 3540	Piano Pedagogy I	2 s.h.
MUS 3550	Piano Pedagogy II	2 s.h.
WRT 1010	College Composition I	<u>3 s.h.</u>
		33 s.h.

Film Music Scoring Certificate of Completion (16 s.h.)

CERTIFICATE REQUIREMENTS:

MUAP	Two semesters of Applied Piano	4 s.h.
MUAP 4100	Applied Composition	2 s.h.
MUAP 4770	Film Scoring I*	2 s.h.
MUAP 4780	Film Scoring II	2 s.h.
MUAP 4790	Film Scoring III	2 s.h.
MUS 1800	Introduction to Music Technology	2 s.h.
MUS 4030	Form and Analysis	<u>2 s.h.</u>
		16 s.h.

REQUIRED SUPPORT COURSES (18 s.h.):

MUAP 4010	Orchestration	2 s.h.
MUS 1130	Theory I	3 s.h.
MUS 1140	Sight-singing and Ear Training I	1 s.h.
MUS 1330	Theory II	3 s.h.
MUS 1340	Sight-singing and Ear Training II	1 s.h.
MUS 2130	Theory III	3 s.h.
MUS 2140	Sight-singing and Ear Training III	1 s.h.
MUS 2330	Theory IV	3 s.h.
MUS 2340	Sight-singing and Ear Training IV	1 s.h.

RECOMMENDED SUPPORT COURSE:

MUS 4040	Conducting and Performing Techniques	2 s.h.
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*NOTE: A piano proficiency test is required prior to MUAP 4770.

Musical Theatre Certificate of Completion (22-23 s.h.)

The Musical Theatre Certificate of Completion is an initial training program designed to give beginning to intermediate instruction of musical theatre techniques in drama, dance, and singing.

CERTIFICATE REQUIREMENTS:

MUAP	Voice	6 s.h.
MUAP	Piano	2 s.h.
MUAP 1110	Coaching for the Singer	1 s.h.
MUAP 2610	Lyric Theatre	2 s.h.
MUS 1005	Fundamentals of Music (2 s.h.) or	
MUS 1130	Theory I (3 s.h.)	2-3 s.h.
TRE 1010	Fundamentals of Acting	3 s.h.
TRE 2010	Musical Theatre Dance Styles I	2 s.h.

TRE 2020 Musical Theatre Dance Styles II 2 s.h.
 TRE 3010 Production Technology 2 s.h.
22-23 s.h.

NATURAL SCIENCE

Natural Science Minor (24 s.h.)

24 s.h., including courses selected from Biology, Chemistry, and/or Physics with a minimum of 8 s.h. in any one of the above areas and independent of courses in the major field.

NURSE PARALEGAL

Nurse Paralegal Post-BSN Certificate of Achievement (31 s.h.*)

REQUIRED CERTIFICATE COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.
LAW 2560	Legal Research on the Internet	3 s.h.
LAW 2570	Litigation	3 s.h.
LAW 2580	Electronic Discovery	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 4220	Torts: An Overview of Negligence	3 s.h.
LAW 4230	Medical-Legal Concepts and Medical Records	3 s.h.
LAW 4270	Evidence	3 s.h.
LAW 4930 or 4940	Internship	1 s.h.
LAW 4950	Legal Seminar	3 s.h.
		31 s.h.

*9 semester hours of legal specialty courses must be taken in synchronous instruction format.

THE MADONNA UNIVERSITY PARALEGAL STUDIES PROGRAM IS APPROVED BY THE AMERICAN BAR ASSOCIATION

Completion of the Nurse Paralegal Certificate requirements DOES NOT AUTHORIZE graduates to practice law as an attorney.

Admission to courses other than LAW 1000 requires departmental approval.

Two letters of recommendation attesting to the applicant's abilities and integrity are required.

The last twenty semester hours of legal courses, including LAW 4950, Legal Seminar, must be completed at Madonna University.

NURSING

Madonna University offers a Bachelor of Science in Nursing (BSN) degree for beginning nursing students, and degree-completion programs for registered nurses (RNs).

The nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE).

The University also offers the Master of Science in Nursing (MSN) degree with majors in Nursing Administration and several Nurse Practitioner specialties and the Doctor of Nursing Practice (DNP). Also offered are several post-master certificates. See the Graduate Catalog for information about these programs.

Program Description

A covenant of caring and learning is the foundation of the undergraduate nursing curriculum model. The curricular model concepts of professional nursing practice, holistic caring, and dynamics of systems converge in a background of a learner-centered community and relationship-centered care. The covenant stresses integrity, compassion, spirituality, and ethical behavior.

Theory portions of some undergraduate nursing courses are offered in a hybrid format. There are also increasing opportunities to take MU Core Curriculum courses in both hybrid and online formats.

Nursing Major Admission

Admission to Nursing is a two-step process. Step 1 is Admission to Pre-Nursing, which occurs year-round. Step 2 is acceptance to the Nursing Major, which occurs twice yearly, for Fall admissions and August for Winter admissions.

NOTE: While not required for admissions, SAT/ACT scores will be considered if submitted.

NOTE: These requirements are for U.S. citizens and permanent residents only. International students, please see advising.

Step 1: Admission Requirements for First-Year students applying to Pre-Nursing

1. A minimum of 2.8 grade point average in high school college preparatory courses.
2. At least one year each of high school algebra, biology, and chemistry with a grade of C (2.0) or higher; two years of high school algebra strongly recommended.

Direct-from-High-School Admission

- minimum cumulative high school GPA of 3.2 or higher;
- completion of one year of biology and chemistry and two years of algebra with grades of B or better;
- applications received by December 1 for the subsequent fall semester will receive priority decisions;
- applications received after December 1 for the subsequent fall semester will be reviewed upon receipt and decisions made on space available basis;
- within 4 weeks of direct admission offer, students will accept or decline admission.

In order to maintain direct-to-nursing admission status, the student must:

- maintain his/her high school GPA at 3.2 or higher through graduation;
- enroll at Madonna University in the fall semester for which accepted;
- successfully pass all nursing prerequisite and support courses with grades of C (2.0) or higher;
- maintain a cumulative GPA of 3.0 or higher at Madonna University;
- complete prerequisite courses to the nursing major and be ready for the nursing major within two years of enrollment.

Step 1: Admission Requirements for Transfer students applying to Pre-Nursing

1. A required minimum cumulative GPA from all colleges and/or universities depends on the number of credit hours attempted:
 - 1-16 credit hours: 2.5 Cumulative GPA

- 17-30 credit hours: 2.75 GPA
 - 31+ credit hours: 3.0 GPA
2. Completion of at least one semester of each algebra, biology, and chemistry at the college/university level with a grade of C (2.0) or higher.
 3. Students whose record indicates lack of success in another nursing program within the past three (3) years are not considered for admission

See elsewhere in this Catalog for additional details on the admission of transfer students.

Step 1: Admission Requirements for Post-Degree students applying to Pre-Nursing

1. The required minimum cumulative GPA from all colleges/universities attended for students who have already earned a bachelor's degree from a regionally accredited university is 2.8.

Step 2: Requirements for the Nursing Major

Students should apply for the Nursing Major by January 31st to be considered to begin nursing coursework in the fall; and by July 31st to be considered to begin nursing coursework in the winter. The following are minimum requirements for consideration.

(Admission application deadlines may be subject to change.) Late application for a requested semester will not be considered).

The following are minimum requirements for consideration:

1. Pre-Nursing status.
2. Expect to complete all prerequisite courses as listed for the major (see below), the semester prior to desired start of nursing major coursework. A delay in completion of prerequisites will delay consideration for starting Nursing major coursework.
3. Complete and submit a letter of intent by the appropriate deadline date.
4. Overall grade point average (GPA) of 3.0 or higher.

NOTES:

Acceptance to the Nursing major is contingent on a satisfactory Criminal Background Check, Sex Offenders Registry Check, and submission of technical standard documents. Students are required to submit documentation of health status and immunizations on admission to the Nursing major courses.

Once a student begins nursing courses, the student must earn a grade of B- (2.66) or higher in all nursing (NUR) courses. Nursing Department policy states that two grades below B- (2.66) in nursing (NUR) courses results in automatic dismissal from the nursing program. This policy still applies when original grades are replaced. There is also a limit on the number of withdrawals permitted from nursing courses.

Prerequisites to Nursing Major:

BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Human Anatomy and Physiology II	3 s.h.
BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
BIO 3710* Pathophysiology	3 s.h.
CHM 1610.00 Introduction to Life Chemistry	3 s.h.

CHM 1610.LB Introduction to Life Chemistry Lab	1 s.h.
MTH 2350 Probability and Statistics	4 s.h.
NFS 2220 General Nutrition for the Health Professional	2 s.h.
NFS 2230 Therapeutic Nutrition for the Health Professional	2 s.h.
PSY 1010 General Psychology	3 s.h.
PSY 2450 Life-Span Developmental Psychology	4 s.h.
SOC 1020 Introduction to Sociology	3 s.h.
WRT 1010 College Composition I	3 s.h.
WRT 1020 College Composition II	<u>3 s.h.</u>
	39 s.h.

Nursing Major: Bachelor of Science in Nursing (53 s.h.)

REQUIRED MAJOR COURSES:

NUR 2820 Introduction to Professional Nursing	4 s.h.
NUR 2830 Health Assessment and Promotion	3 s.h.
NUR 3420 Pharmacology	3 s.h.
NUR 3460 Holistic Mental Health Nursing Care	4 s.h.
NUR 3480 Holistic Nursing Care Adults and Families I	5 s.h.
NUR 3850 Research and Evidence-Based Practice I	2 s.h.
NUR 3975 Population Focused Older Adult and Family	4 s.h.
NUR 3985 Holistic Nursing Care of Adults and Families II	5 s.h.
NUR 4410 Holistic Nursing Care of Children and Families	4 s.h.
NUR 4870 Population-Focused Professional Nursing	4 s.h.
NUR 4450 Holistic Nursing Care of Women and Families	4 s.h.
NUR 4860 Holistic Care Immersion	6 s.h.
NUR 4840 Dynamic Nursing Leadership	3 s.h.
NUR 4970 Research and Evidence-Based Practice II	<u>2 s.h.</u>
	53 s.h.

REQUIRED SUPPORT COURSES (6 s.h.):

BIO 2270 Microbiology for Health Sciences	3 s.h.
RST 4110 Medical Ethics (PHL)	3 s.h.

RECOMMENDED SUPPORT COURSES:

COM 2120 Interpersonal Communication	3 s.h.
HSP 3500 Spiritual and Ethical Considerations in Palliative/End-of-Life Care	3 s.h.
MIS 3350 Health Care Informatics	3 s.h.

NOTE: Only students admitted into the Nursing major may enroll in NUR courses.

Progress in the Nursing Major

Admitted Nursing major students must maintain the following:

1. Minimum grade of B- (2.6) in all nursing courses, a minimum grade of C (2.0) in all and required support courses, and a minimum cumulative GPA of 2.0.

NOTE: Two grades below B- (2.6) in all nursing courses result in automatic dismissal from the nursing major. Please see the current edition of the Department of Nursing Undergraduate Student Handbook for a full discussion of dismissal and appeal policies.

2. Proficiency in communication skills.
3. Evidence of personal integrity, emotional stability, social competence, and a positive attitude. The University reserves the right to request a student's withdrawal from the program or nursing course because of unsatisfactory performance in the theory or clinical phases of the program and/or for inappropriate behavior.

NOTE: The traditional nursing curriculum may be completed on a part-time basis. The accelerated nursing curriculum must be completed on a full-time basis.

NURSING HOME ADMINISTRATION

Nursing Home Administration Pre-Licensure Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

AGE 4850 Gerontology Management	3 s.h.
AGE 4870 Nursing Home Administration I	3 s.h.
AGE 4880 Nursing Home Administration II	<u>3 s.h.</u>
	9 s.h.

Note: All AGE courses have been approved for continuing education credit in the renewal of the Nursing Home Administrator License.

NUTRITION

The Nutrition Minor provides an opportunity for non-major students to broaden their understanding of the science of nutrition and the complex interaction between food and health. Elective courses allow students to focus on specific areas of food and nutrition. The minor does not meet the requirements to become a registered dietitian nutritionist (RDN).

Nutrition Minor (20 s.h.)

REQUIRED MINOR COURSES:

NFS 2230 Therapeutic Nutrition for the Health Professional (2 s.h.)	or	
NFS 2420 Nutrition for the Older Adult (AGE) (2 s.h.)	or	
NFS 4380 Public Health Nutrition (2 s.h.)		2 s.h.
NFS 2260.00 Food Science and Sanitation (FCS)		2 s.h.
NFS 2260.LB Food Science and Sanitation Lab (FCS)		1 s.h.
NFS 2270 Human Nutrition (FCS)		3 s.h.
NFS 3120 Nutrition and Human Development		3 s.h.
NFS 3312 Introduction to Sustainable Food Systems and Nutrition (ENV)		2 s.h.
NFS 3390 Nutrition Education and Counseling		2 s.h.
Minor Electives (choose 5 s.h. from:)		
NFS 2290 Topics in Food and Nutrition (1 s.h.)		
NFS 2470 Sports Nutrition (3 s.h.)		
NFS 3220 Nutrition Assessment (2 s.h.)		
NFS 3290 Topics in Food and Nutrition (1 s.h.)		
NFS 4395 Advanced Nutrition Counseling (1 s.h.)		<u>5 s.h.</u>
		20 s.h.

NUTRITION AND WELLNESS

The Nutrition and Wellness Program provides students with a strong background in nutrition and disease prevention to become effective practitioners and leaders in the diverse fields of health, nutrition, and wellness.

Nutrition and Wellness Major: Bachelor of Science (31 s.h.)

REQUIRED MAJOR COURSES:

NFS 2260.00 Food Science and Sanitation (FCS)	2 s.h.
NFS 2260.LB Food Science and Sanitation Lab (FCS)	1 s.h.
NFS 2270 Human Nutrition (FCS)	3 s.h.
NFS 2470 Sports Nutrition	3 s.h.
NFS 3120 Nutrition and Human Development	3 s.h.
NFS 3220 Nutrition Assessment	2 s.h.
NFS 3250 Medical Nutrition Therapy I	3 s.h.
NFS 3390 Nutrition Education and Counseling	2 s.h.
NFS 4260 Nutrient Metabolism	3 s.h.

NFS 4380 Public Health Nutrition	2 s.h.
NFS 4395 Advanced Nutrition Counseling	1 s.h.
NFS 4950 Senior Seminar	2 s.h.
Major Electives in NFS*	<u>4 s.h.</u>
	31 s.h.

*Major electives may be selected from all NFS courses except NFS 2220 or NFS 2360.

REQUIRED SUPPORT COURSES (10 s.h.):

BIO 2250 Basic Human Physiology	3 s.h.
BIO 2270 Microbiology for Health Sciences	3 s.h.
CHM 1610.00 Introduction to Life Chemistry	3 s.h.
CHM 1610.LB Introduction to Life Chemistry Lab	1 s.h.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

NUTRITIONAL SCIENCES

Nutritional Sciences Major: Bachelor of Science (30 s.h.)

REQUIRED MAJOR COURSES:

NFS 2260.00 Food Science and Sanitation (FCS)	2 s.h.
NFS 2260.LB Food Science and Sanitation Lab (FCS)	1 s.h.
NFS 2270 Human Nutrition (FCS)	3 s.h.
NFS 3120 Nutrition and Human Development	3 s.h.
NFS 3220 Nutrition Assessment	2 s.h.
NFS 3250 Medical Nutrition Therapy I	3 s.h.
NFS 4260 Nutrient Metabolism	3 s.h.
NFS 4420 Medical Nutrition Therapy II and Professional Issues	3 s.h.
NFS 4950 Senior Seminar	2 s.h.
NFS 4960.00 Experimental Foods and Research	2 s.h.
NFS 4960.LB Experimental Foods and Research Lab	1 s.h.
Major electives*	<u>5 s.h.</u>
	30 s.h.

*Major electives may be selected from all NFS courses except NFS 2220 or NFS 2360.

REQUIRED SUPPORT COURSES (28 s.h.):

BIO 2260.00 Microbiology	3 s.h.
BIO 2260.LB Microbiology Lab	1 s.h.
BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Human Anatomy and Physiology II	3 s.h.
BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all Science and Mathematics programs.)

PARALEGAL STUDIES

The mission of the Paralegal Studies program is to prepare students for careers as paralegals. The program teaches practical paralegal skills in conjunction with a liberal arts education. This allows graduates to serve a modern, multicultural society with a valuable skill.

The mission also includes educating B.S.N.-credentialed nurses to become nurse paralegals (see listing under NURSE PARALEGAL) and to educate others holding bachelor degrees with a specialized certificate in Litigation Management including skills in electronic discovery and other technology used in litigation.

The mission of the Paralegal Studies Prelaw Program also includes providing a background in law to prepare students who are not in the American Bar Association approved Paralegal Studies major or certificate, with a minor that gives an overview of the U.S. legal system, the function of civil law within it, and to prepare those who are pre-law with a minor that will help prepare them for law school.

Paralegal Studies Major: Bachelor of Science (42 s.h.)*

REQUIRED MAJOR COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.
LAW 2560	Legal Research on the Internet	3 s.h.
LAW 2570	Litigation	3 s.h.
LAW 2580	Electronic Discovery	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 3770	Law Office Management	3 s.h.
LAW 3780	Law Office Technology	3 s.h.
LAW 4930 or 4940	Internship	1-3 s.h.
LAW 4950	Legal Seminar	3 s.h.
	LAW electives	<u>12-14 s.h.</u>
		42 s.h.

*9 semester hours of legal specialty courses must be taken in synchronous instruction format.

Paralegal Studies Major: Associate of Science (30 s.h.)*

REQUIRED MAJOR COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.
LAW 2560	Legal Research on the Internet	3 s.h.
LAW 2570	Litigation	3 s.h.
LAW 2580	Electronic Discovery	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 3780	Law Office Technology	3 s.h.
LAW 4930 or 4940	Internship	1-3 s.h.
LAW 4950	Legal Seminar	3 s.h.
	LAW electives	<u>3-5 s.h.</u>
		30 s.h.

*9 semester hours of legal specialty courses must be taken in synchronous instruction format.

Paralegal Studies Post-Baccalaureate Certificate of Achievement (31 s.h.)*

REQUIRED CERTIFICATE COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.
LAW 2560	Legal Research on the Internet	3 s.h.
LAW 2570	Litigation	3 s.h.
LAW 2580	Electronic Discovery	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 3780	Law Office Technology	3 s.h.
LAW 4930 or 4940	Internship	1 s.h.

LAW 4950	Legal Seminar	3 s.h.
	LAW electives	<u>6 s.h.</u>
		31 s.h.

*9 semester hours of legal specialty courses must be taken in synchronous instruction format.

Law Minor (21 s.h.)

REQUIRED MINOR COURSES:

LAW 1000	Introduction to Paralegal Studies	3 s.h.
LAW 1010	Legal Research and Writing I	3 s.h.

Electives, *select from the following:* 15 s.h.

LAW 2570	Litigation (3 s.h.)
LAW 2350	Real Estate (3 s.h.)
LAW 2410	Contracts (3 s.h.)
LAW 4220	Torts: An Overview of Negligence (3 s.h.)
LAW 4320	Medical-Legal Concepts and Medical Records (3 s.h.)
LAW 4270	Evidence (3 s.h.)

21 s.h.

THE MADONNA UNIVERSITY PARALEGAL STUDIES PROGRAM IS APPROVED BY THE AMERICAN BAR ASSOCIATION

Completion of the Paralegal Studies program degree requirements DOES NOT AUTHORIZE to practice law as an attorney.

Admission to courses other than LAW 1000 requires departmental approval.

Two letters of recommendation attesting to the applicant's abilities and integrity are required.

The last twenty semester hours of legal courses, including LAW 4930/4940 Internship and LAW 4950 Legal Seminar, must be completed at Madonna University.

PHARMACY

See PRE-PROFESSIONAL PROGRAMS.

PHILOSOPHY

Philosophy uses the gift of human reason to explore the "big questions" about the nature of reality and of the human person, about human meaning, purpose, and values, about the nature of God, and about how to live. The Philosophy minor offers the opportunity to examine these questions from diverse perspectives, encouraging critical thinking about them, while giving particular attention to the Catholic ethical and philosophical tradition.

Philosophy Minor (21 s.h.)

REQUIRED MINOR COURSES:

PHL 1010	Introduction to Philosophy	3 s.h.
PHL 2010	Logic	3 s.h.
PHL 3650	Philosophy of Knowledge	3 s.h.
PHL 4080	Ethical Issues in Business, or	
PHL 4090	Environment Ethics (RST*) or	
PHL 4110	Medical Ethics (RST*)	3 s.h.
PHL 4230	Metaphysics	3 s.h.
	Electives (<i>Philosophy courses</i>)	<u>6 s.h.</u>
		21 s.h.

PHYSICAL EDUCATION AND HEALTH

The Physical Education and Health major at Madonna University is designed to provide a comprehensive program of study to prepare students to teach Physical Education and Health to K-12 students. Students will be equipped with the knowledge to motivate others of all ages, backgrounds and health status to become more physically, mentally, and socially fit for a lifetime.

Behavior-related health care costs have multiplied in the last decade. Now, more than ever, the importance of fitness is critical. This program addresses the under-served and vitally important area of physical fitness and health, linked to enhanced lifelong wellness.

Physical Education and Health K-12 Major: Bachelor of Science (48 s.h.)

REQUIRED MAJOR COURSES:

PED 2010	History of Physical Education and Health	2 s.h.
PED 2100	Health Fitness Assessment	3 s.h.
PED 2280	First Aid and Safety	2 s.h.
PED 2350	Kinesiology	2 s.h.
PED 2410	Concepts: Nutrition, Mental, Social and Emotional Health	3 s.h.
PED 2420	Concepts: Communicable and Non-Communicable Diseases/Sexual Health	3 s.h.
PED 2430	Concepts: Drug Use and Abuse, Consumer Health, and Safety	3 s.h.
PED 3350	Adapted Physical Education	2 s.h.
PED 3370	Cardio and Strength Conditioning	3 s.h.
PED 3400	Physiology of Exercise	3 s.h.
PED 3520	Curriculum & Instruction in Physical Education and Health	3 s.h.
PED 3650	Motor Development and Movement Education	3 s.h.
PED 3810	Assessment: Team Sports	2 s.h.
PED 3820	Assessment: Individual Sports	2 s.h.
PED 4620	Instructional Methods of Teaching Secondary Physical Education	3 s.h.
PED 4630	Instructional Methods of Teaching PK-Elementary Physical Education and Health	3 s.h.
PED 4640	Instructional Methods of Teaching Secondary Health	3 s.h.
PED 4670	Measurement and Evaluation in Physical Education and Health	<u>3 s.h.</u>
		48 s.h.

PHYSICS

Physics Minor (20 s.h.)

REQUIRED MINOR COURSES:

PHY 2630.00	Physics for Scientists and Engineers I	3 s.h.
PHY 2630.LB	Physics for Scientists and Engineers I Lab	1 s.h.
PHY 2640.00	Physics for Scientists and Engineers II	4 s.h.
PHY 2640.LB	Physics for Scientists and Engineers II Lab	1 s.h.
PHY 2710.00	Fundamental Electronics	3 s.h.
PHY 2710.LB	Fundamental Electronics Lab	1 s.h.
PHY 3510.00	Modern Physics: Atomic and Nuclear	3 s.h.
PHY 3510.LB	Modern Physics: Atomic and Nuclear Lab	1 s.h.
PHY 4510.00	Electronics: Digital Techniques	3 s.h.
PHY 4510.LB	Electronics: Digital Techniques Lab	<u>1 s.h.</u>
		20 s.h.

REQUIRED SUPPORT COURSE (3 s.h.):

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. *(This policy is general across all Science and Mathematics programs.)*

PIANO PEDAGOGY/PIANO PERFORMANCE

See listing under MUSIC.

POLITICAL SCIENCE

Political Science Major: Bachelor of Arts (30 s.h.)

An examination of the fundamental principles and functions of political science, including topics related to government, citizenship, political parties, the electoral process, the operation of state and local governments, and international relations. The political science major offers four different track options: American Politics, Comparative Politics and Area Studies, International Politics, and Pre-Law. All four tracks require a total of thirty-one credits, which include nineteen core credits and twelve elective credits from the selected concentration. An internship is part of the core requirements and the program is designed to prepare students for a variety of careers in federal, state, and local government, non-profit organizations, international organizations, business, teaching and law.

REQUIRED MAJOR COURSES:

PSC 1510	American Government	3 s.h.
PSC 3030	International Relations* (3 s.h.) or	
PSC 3410	Comparative Politics** (3 s.h.)	3 s.h.
PSC 4310	Political Theory	3 s.h.
PSC 4930	Political Science Internship	3 s.h.
PSC 4950	Senior Seminar	3 s.h.
SOC 3970	Research Methods in the Social Sciences (PSC)	3 s.h.

Choose one concentration from (see below): 12 s.h.

American Politics **or**

Comparative Politics and Area Studies **or**

International Politics **or**

Pre-Law

30 s.h.

American Politics Concentration (12 s.h.)

HIS 4320 Foreign Policy History of the United States (3 s.h.)

HIS 4540 United States in the Modern Era (3 s.h.)

PSC 3770 State and Local Government (3 s.h.)

PSC 4010 Parties and Elections (3 s.h.)

Comparative Politics and Area Studies Concentration (12 s.h.)

*(*Students choosing this option must take PSC 3030 as major requirement)*

GEO 1210 Introduction to Geography (3 s.h.)

PSC 3410 Comparative Politics (3 s.h.)

PSC 4633 Global Studies: Modern Latin America (HIS*) (3 s.h.)

PSC 4635 Global Studies: Comparative History of Modern World Regions (HIS*) (3 s.h.)

International Politics Concentration (12 s.h.)

*(**Students choosing this option must take PSC 3410 as major requirement.)*

HIS 4320	Foreign Policy History of the United States (3 s.h.)
HIS 3310	Early Modern World (3 s.h.)
HIS 3320	Modern World (3 s.h.)
PSC 3030	International Relations (3 s.h.)

Pre-Law Concentration (12 s.h.)

LAW 1010	Legal Research and Writing I (3 s.h.)
LAW 2100	Law, Society, and Politics (SOC/PSC) (3 s.h.)
PSC 2350	American Judicial Process (CJ*) (3 s.h.)
PSC 4050	Constitutional Law (CJ*) (3 s.h.)

Political Science Minor (21 s.h.)

An examination of the fundamental principles and functions of political science, including topics related to government, citizenship, political parties, the electoral process, the operation of state and local governments, and international relations. The political science minor is designed to enhance student's credentials for a variety of careers in journalism, business, teaching, criminal justice, federal, state, and local government, non-profit organizations, international organizations, and law.

REQUIRED MINOR COURSES:

PSC 1510	American Government	3 s.h.
PSC 3030	International Relations or	
PSC 3410	Comparative Politics	3 s.h.
PSC 3770	State and Local Government	3 s.h.
PSC 4310	Political Theory	3 s.h.
	Minor electives	<u>9 s.h.</u>
		21 s.h.

NOTE: For those students seeking teacher certification, PSC 3030 International Relations and PSC 3410 Comparative Politics are both required.

PRE-ENGINEERING

Engineering schools and programs vary in requirements. Students should consult the Program advisor in the Department of Physical and Applied Sciences to become familiar with the exact requirements of the program(s) to which application will be made.

PRE-LAW

Law schools do not prescribe particular curricula for admission. Madonna University, therefore, approaches the preparation for law on an individual basis, tailoring the program of each student to individual needs and desires. Thus, students may major in communication studies, English, history, paralegal studies, political science, psychology, or other liberal arts. Students are advised to meet with the pre-law advisor (in the History and Paralegal Department) from their first semester in college to discuss their individual career plans.

PRE-PROFESSIONAL PROGRAMS

Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Pharmacy, Pre-Physical Therapy, Pre-Physician Assistant, Pre-Podiatry, Pre-Veterinary (Baccalaureate level)

Students preparing for a health professions career may major in any area whose free electives allow completion of the

basic courses required by the professional schools to which they will be applying.

In addition to reviewing the plans below, students are advised to begin meeting with the Pre-Professional advisor (in the College of Arts and Sciences) at first enrollment at Madonna to discuss their individual career plans and tailored academic plans.

Pre-Dentistry Certificate of Achievement (35 s.h.)

The certificate of achievement in Pre-Dentistry is designed for students who wish to earn a certificate along with their B.S./B.A. *Students planning to enroll in a particular school of dentistry after graduation should work with an advisor to verify that all courses required pre-admission are taken.*

REQUIRED CERTIFICATE COURSES:

BIO 1030.00	General Biology I	3 s.h.
BIO 1030.LB	General Biology I Lab	1 s.h.
BIO 1040.00	General Biology II	3 s.h.
BIO 1040.LB	General Biology II Lab	1 s.h.
CHM 1110.00	General Chemistry I	3 s.h.
CHM 1110.LB	General Chemistry I Lab	1 s.h.
CHM 1120.00	General Chemistry II	3 s.h.
CHM 1120.LB	General Chemistry II Lab	1 s.h.
CHM 2210.00	Organic Chemistry I	3 s.h.
CHM 2210.LB	Organic Chemistry I Lab	1 s.h.
CHM 2220.00	Organic Chemistry II	3 s.h.
CHM 2220.LB	Organic Chemistry II Lab	1 s.h.
PHY 2530.00	General Physics I (3 s.h.) and	
PHY 2530.LB	General Physics I Lab (1 s.h.)	
or		
PHY 2630.00	Physics for Scientists & Engineers I* (3 s.h.) and	
PHY 2630.LB	Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.
PHY 2540.00	General Physics II (3 s.h.) and	
PHY 2540.LB	General Physics II Lab (1 s.h.)	
or		
PHY 2640.00	Physics for Scientists & Engineers II* (3 s.h.) and	
PHY 2640.LB	Physics for Scientists & Engineers II Lab	4 s.h.
WRT 1010	College Composition I	<u>3 s.h.</u>
		35 s.h.

SUGGESTED SUPPORT COURSES (21 s.h.):

BIO 2260.00	Microbiology	3 s.h.
BIO 2260.LB	Microbiology Lab	1 s.h.
BUS 1010	Contemporary Society and the Organization (3 s.h.) or	
MGT 2360	Principals of Management (3 s.h.)	3 s.h.
CHM 2220.00	Organic Chemistry II	3 s.h.
CHM 2220.LB	Organic Chemistry II Lab	1 s.h.
CHM 3610.00	Biochemistry (BIO)	3 s.h.
CHM 3610.LB	Biochemistry I Lab (BIO) Lab	1 s.h.
MTH 2350	Probability and Statistics	4 s.h.
PSY 1010	General Psychology	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.

Pre-Medicine Certificate of Achievement (39 s.h.)

The certificate of achievement in Pre-Medicine is designed for students who wish to earn a certificate along with their B.S./B.A. *Students planning to enroll in a particular medical or osteopathy school after graduation should work with an advisor to verify that all courses required pre-admission are taken.*

REQUIRED CERTIFICATE COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.
PHY 2530.00 General Physics I (3 s.h.) and	
PHY 2530.LB General Physics I Lab (1 s.h.)	

or

PHY 2630.00 Physics for Scientists & Engineers I* (3 s.h.) and	
PHY 2630.LB Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.

PHY 2540.00 General Physics II (3 s.h.) and	
PHY 2540.LB General Physics II Lab (1 s.h.)	

or

PHY 2640.00 Physics for Scientists & Engineers II* (3 s.h.) and	
PHY 2640.LB Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.
WRT 1010 College Composition I	<u>3 s.h.</u>
	39 s.h.

Pre-Optometry Certificate of Achievement (51 s.h.)

The certificate of achievement in Pre-Optometry is designed for students who wish to earn a certificate along with their B.S./B.A. *Students planning to enroll in a particular optometry school after graduation should work with an advisor to verify that all courses required pre-admission are taken.*

REQUIRED CERTIFICATE COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 1040.00 General Biology II	3 s.h.
BIO 1040.LB General Biology II Lab	1 s.h.
BIO 2260.00 Microbiology	3 s.h.
BIO 2260.LB Microbiology Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
COM 2350 Public Speaking: Theory and Practice	3 s.h.
MTH 2350 Probability and Statistics	4 s.h.
MTH 2510 Calculus with Analytic Geometry I	5 s.h.
PHY 2530.00 General Physics I (3 s.h.) and	
PHY 2530.LB General Physics I Lab (1 s.h.)	

or

PHY 2630.00 Physics for Scientists & Engineers I* (3 s.h.) and	
PHY 2630.LB Physics for Scientists & Engineers I Lab (1 s.h.)	4 s.h.

PHY 2540.00 General Physics II (3 s.h.) and	
PHY 2540.LB General Physics II Lab (1 s.h.)	

or

PHY 2640.00 Physics for Scientists & Engineers II* (3 s.h.) and	
PHY 2640.LB Physics for Scientists & Engineers II Lab (1 s.h.)	4 s.h.

WRT 1010 College Composition I	<u>3 s.h.</u>
	51 s.h.

SUGGESTED SUPPORT COURSES (22 s.h.):

ACC 2000 Survey of Accounting	3 s.h.
BIO 2450.00 Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Anatomy and Physiology II	3 s.h.
BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.
MGT 2360 Principles of Management	3 s.h.

Pre-Optometry students also should consider taking advanced Cell Biology and Embryology.

Pre-Pharmacy Certificate of Achievement (36 s.h.)

The certificate of achievement in Pre-Pharmacy is designed for students who wish to earn a certificate along with their B.S./B.A. *Students planning to enroll in a particular pharmacy school after graduation should work with an advisor to verify that all courses required pre-admission are taken.*

REQUIRED CERTIFICATE COURSES:

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 2450.00 Human Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2260.00 Microbiology	3 s.h.
BIO 2260.LB Microbiology Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 1120.00 General Chemistry II	3 s.h.
CHM 1120.LB General Chemistry II Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
CHM 2220.00 Organic Chemistry II	3 s.h.
CHM 2220.LB Organic Chemistry II Lab	1 s.h.
MTH 2510 Calculus with Analytic Geometry I	5 s.h.
WRT 1010 College Composition I	<u>3 s.h.</u>
	36 s.h.

The above courses are required for admission to any of the three pharmacy schools in Michigan. See the Pre-Pharmacy advisor for more information about other course requirements specific to the school to which you will apply.

Physical Therapy schools and programs vary in requirements. Students should consult an advisor to become familiar with the exact requirements of the program(s) to which application will be made.

Pre-Physician Assistant Certificate of Achievement (34 s.h.)

The certificate of achievement in Pre-Physician Assistant is designed for students who wish to earn a certificate along with their B.S./B.A. *Students planning to enroll in a particular physician assistant school after graduation should work with an advisor to verify that all courses required pre-admission are taken.*

REQUIRED CERTIFICATE COURSES:

BIO 2260.00 Microbiology	3 s.h.
BIO 2260.LB Microbiology Lab	1 s.h.
BIO 2450.00 Anatomy and Physiology I	3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab	1 s.h.
BIO 2460.00 Anatomy and Physiology II	3 s.h.
BIO 2460.LB Human Anatomy and Physiology II Lab	1 s.h.
CHM 1110.00 General Chemistry I	3 s.h.
CHM 1110.LB General Chemistry I Lab	1 s.h.
CHM 2210.00 Organic Chemistry I	3 s.h.
CHM 2210.LB Organic Chemistry I Lab	1 s.h.
PSY 1010 General Psychology	3 s.h.
PSY 2450 Life Span Developmental Psychology	4 s.h.
MTH 2350 Probability and Statistics	4 s.h.
WRT 1010 College Composition I	<u>3 s.h.</u>
	34 s.h.

SUGGESTED SUPPORT COURSES (24 s.h.):

BIO 1030.00 General Biology I	3 s.h.
BIO 1030.LB General Biology I Lab	1 s.h.
BIO 3010.00 Genetics	3 s.h.
BIO 3010.LB Genetics Lab	1 s.h.
BIO 5550 Advanced Human Physiology	3 s.h.
CHM 3610.00 Biochemistry I (BIO)	3 s.h.
CHM 3610.LB Biochemistry I Lab (BIO)	1 s.h.
MTE 1010 Medical Terminology	2 s.h.
NFS 2220 General Nutrition for the Health Professional	2 s.h.
NFS 2230 Therapeutic Nutrition for the Health Professional	2 s.h.
RST 4110 Medical Ethics (PHL)	3 s.h.

Pre-Physical Therapy, Pre-Podiatry, Pre-Veterinary

Schools and programs vary in requirements for admission. Students should consult the Program advisor in the College of Arts and Sciences to become familiar with the exact requirements of the program(s) to which application will be made.

PRIVATE INVESTIGATION/PRIVATE SECURITY

See listing under CRIMINAL JUSTICE.

PSYCHOLOGY**Psychology Major: Bachelor of Science:**

General Concentration (39-40 s.h.)

Mental Health Concentration (53 s.h.)

All entering Psychology majors declare as Psychology-General Concentration. After completing PSY 1030 with a grade of B (3.0) or better, as well as the Madonna University writing requirement, a student will select one of the two concentrations in consultation with his/her assigned Psychology Department advisor.

REQUIRED MAJOR COURSES:

PSY 1010 General Psychology	3 s.h.
PSY 1030 Tools for Success in Psychology	1 s.h.
PSY 2450 Life-Span Developmental Psychology	4 s.h.
PSY 2660 Social Psychology	3 s.h.
PSY 3830 Research and Quantitative Methods I	4 s.h.
PSY 3840 Research and Quantitative Methods II	4 s.h.
PSY 4220 Theories of Personality	4 s.h.
PSY 4300 Cognitive Psychology	4 s.h.
PSY 4500 Behavioral Neuroscience (BIO)	4 s.h.

PSY 4950 Seminar in Psychology

2 s.h.
33 s.h.

Choose one concentration from (see below):

General (6-7 s.h.) **or**

Mental Health (20 s.h.)

6-20 s.h.
39-53 s.h.

General Concentration (6-7 s.h.)

Specialty courses; select two courses:

PSY 2760 Psychological Testing and Measurement	(3 s.h.)
PSY 3100 Health Psychology	(3 s.h.)
PSY 3420 Abnormal Psychology	(4 s.h.)
PSY 3520 Industrial/Organizational Psychology (BUS)	(3 s.h.)
PSY 3720 Introduction to Clinical Psychology	(3 s.h.)
PSY 3820 Forensic Psychology (CJ)	(3 s.h.)

Mental Health Concentration (20 s.h.)

PSY 2760 Psychological Testing and Measurement	(3 s.h.)
PSY 3420 Abnormal Psychology	(4 s.h.)
PSY 3720 Introduction to Clinical Psychology	(3 s.h.)
PSY 4760 Mental Health Field Placement I	(2 s.h.)
PSY 4765 Mental Health Seminar I	(3 s.h.)
PSY 4770 Mental Health Field Placement II	(2 s.h.)
PSY 4775 Mental Health Seminar II	(3 s.h.)

PREREQUISITE COURSES FOR MSCP SECONDARY ADMISSION

(11 s.h.):

Note: The three courses below are required for Mental Health Concentration students seeking secondary admission to the Master of Science in Clinical Psychology degree. See the Graduate Catalog for more information.

PSY 4100 Introduction to Clinical Theory	3 s.h.
PSY 4400 Psychological Assessment I	4 s.h.
PSY 4600 Psychopathology in Adults	4 s.h.

Psychology Minor (25-27 s.h.)**REQUIRED MINOR COURSES:**

PSY 1010 General Psychology	3 s.h.
PSY 1030 Tools for Success in Psychology	1 s.h.
PSY 2450 Life-Span Developmental Psychology	4 s.h.
PSY 2760 Psychological Testing and Measurement	3 s.h.
PSY 4300 Cognitive Psychology	4 s.h.
PSY 4500 Behavioral Neuroscience (BIO)	4 s.h.
Minor electives (select two courses)	6-8 s.h.
PSY 2660 Social Psychology	(3 s.h.)
PSY 2700 Child Psychology	(4 s.h.)
PSY 3070 Psychology of Midlife and Aging	(AGE*)(3 s.h.)
PSY 3100 Health Psychology	(3 s.h.)
PSY 3130 Adolescent Psychology	(4 s.h.)
PSY 3420 Abnormal Psychology	(4 s.h.)
PSY 3520 Industrial/Organizational Psychology	(BUS) (3 s.h.)
PSY 3820 Forensic Psychology (CJ)	(3 s.h.)
PSY 4220 Theories of Personality	(4 s.h.)

25-27 s.h.

Forensic Psychology Certificate of Completion (16 s.h.)**REQUIRED CERTIFICATE COURSES:**

PSY 1010 General Psychology	3 s.h.
CJ 1020 Introduction to Criminal Justice	3 s.h.
CJ 3210 Principles of Criminology (FOR/SOC)	3 s.h.
PSY 3420 Abnormal Psychology	4 s.h.

PSY 3820 Forensic Psychology (CJ) 3 s.h.
16 s.h.

Industrial/Organizational Psychology Certificate of Completion (16 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 1010 General Psychology 3 s.h.
PSY 2660 Social Psychology 3 s.h.
PSY 3520 Industrial/Organizational Psychology (BUS) 3 s.h.
PSY 4300 Cognitive Psychology 4 s.h.
MGT 2360 Principles of Management 3 s.h.
16 s.h.

Neuroscience Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

BIO 2450.00 Human Anatomy and Physiology I 3 s.h.
BIO 2450.LB Human Anatomy and Physiology I Lab 1 s.h.
PSY 4300 Cognitive Psychology 4 s.h.
PSY 4500 Behavioral Neuroscience (BIO) 4 s.h.
12 s.h.

Advanced Research Certificate of Completion (9 s.h.) (Limited to Psychology Majors)

REQUIRED CERTIFICATE COURSES:

PSY 2760 Psychological Testing and Measurement 3 s.h.
PSY 4850 Advanced Research and Quantitative Methods I 3 s.h.
PSY 4860 Advanced Research and Quantitative Methods II 3 s.h.
9 s.h.

QUALITY AND OPERATIONS LEADERSHIP

See listing under BUSINESS ADMINISTRATION.

RELIGIOUS STUDIES

Religious Studies explores the "big questions" at the heart of human existence, questions about human meaning in relation to transcendent reality, that lead to reflection upon divine revelation and open the door to a deeper relationship with God. Reflecting Madonna's identity as a Catholic University in the Franciscan tradition, the Religious Studies program fosters an understanding of the religious and moral dimensions of human experience by examining religious sources, traditions, beliefs, and practices. Special attention is given to Franciscan, Christian-humanistic values, with awareness of other faith traditions and a concern for social justice, in preparation for teaching, pastoral ministry, and graduate studies. Students interested in active service to their faith communities may follow the pastoral ministry concentration. The Archdiocese of Detroit encourages Catholic students who feel called to Religion teaching or to parish ministry to pursue a degree in Religious Studies. The number of required credit hours leaves room for combining this program with another major or minor, thus enhancing qualifications for future professional opportunities.

Religious Studies Major: Bachelor of Arts (31 s.h.)

REQUIRED MAJOR COURSES:

RST 1330 Survey of Christianity 3 s.h.
RST 1450 Survey of Western Religions (3 s.h.) **or**
RST 1460 Survey of Eastern Religions (3 s.h.) 3 s.h.
RST 1500 Catholicism 3 s.h.
RST 2560 Old Testament: Torah and Historical Writings

(3 s.h.) **or**

RST 2570 Old Testament: Prophets and Wisdom Literature (3 s.h.) 3 s.h.
RST 2580 New Testament: The Four Gospels (3 s.h.) **or**
RST 2590 New Testament: Acts, Epistles, and Revelation (3 s.h.) 3 s.h.
RST 2990 Catholic Social Teaching for the 21st Century (PHL) 3 s.h.
RST 3150 Christian Spirituality 3 s.h.
RST 3490 Worship and Sacraments 3 s.h.
RST 4960 Capstone Project 1 s.h.
Required Concentration, select from (see below)
Religious Studies (6 s.h.) **or**
Pastoral Ministry (6 s.h.) 6 s.h.
31 s.h.

Required concentration—Select one concentration from:

Religious Studies Concentration (6 s.h.)

RST 4160 Ecclesiology 3 s.h.
RST 4240 Christology 3 s.h.

Pastoral Ministry Concentration (6 s.h.)

RST 2240 Theology of Ministry 3 s.h.
RST 3610 Pastoral Counseling 3 s.h.

REQUIRED SUPPORT COURSES (3 s.h.):

Both Concentrations:

PHL 1010 Introduction to Philosophy 3 s.h.

Pastoral Ministry Concentration only:

SOC 2160 Empathy Listening Skills (SW*) 1 s.h.

RECOMMENDED SUPPORT COURSES:

PHL 1050 Philosophy of Person 3 s.h.
PHL 4150 Philosophy of Religion (RST) 3 s.h.

Religious Studies Minor (21 s.h.)

REQUIRED MINOR COURSES:

RST 1330 Survey of Christianity (3 s.h.) **or**
RST 1500 Catholicism (3 s.h.) 3 s.h.
RST 1450 Survey of Western Religions (3 s.h.) **or**
RST 1460 Survey of Eastern Religions (3 s.h.) 3 s.h.
RST 2240 Theology of Ministry (3 s.h.) **or**
RST 3150 Christian Spirituality (3 s.h.) 3 s.h.
RST 2990 Catholic Social Teaching for the 21st Century (PHL) (3s.h.) **or**
RST 3610 Pastoral Counseling (3 s.h.) 3 s.h.
RST 2560 Old Testament: Torah and Historical Writings 3 s.h.
RST 2580 New Testament: The Four Gospels 3 s.h.
RST 3490 Worship and Sacraments 3 s.h.
21 s.h.

REQUIRED SUPPORT COURSE (3 s.h.):

PHL 1010 Introduction to Philosophy 3 s.h.

RECOMMENDED SUPPORT COURSE:

(For students interested in Pastoral Ministry)

SOC 2160 Empathy Listening Skills (SW*) 1 s.h.

SIGN LANGUAGE STUDIES

Sign Language Interpreting Studies Major (Bachelor of Arts)

Deaf Community Studies Major (Bachelor of Arts)

Deaf Community Studies Minor for Interpreting Studies or ASL Education Majors

ASL Education Major (Bachelor of Arts)

ASL Education Minor

American Sign Language Minor

American Sign Language (ASL) is the language of the American Deaf Community and an integral part of Deaf culture. The Madonna University Sign Language Studies (SLS) Department strives to provide a quality educational experience which will allow students to fulfill their academic goals and function as an exemplar of the language and culture of Deaf people.

The key component of the program is language acquisition. Learning American Sign Language (ASL) is a complex process, requiring mastery of vocabulary, grammatical structure, linguistic functions, syntax, culture, and history of the language. Emphasis is also placed on the sociocultural aspects of American Deaf culture and the right of Deaf children and adults to learn and use American Sign Language.

At the bachelor degree level, we offer three majors: Deaf Community Studies, Sign Language Interpreting Studies, and ASL Education.

Students studying ASL as a language for communication with the Deaf community may pursue a minor in Sign Language Studies. Students pursuing this program are encouraged to consider a second major in one of the many human services fields available at Madonna University. (See the chart of Madonna University majors.)

Please direct all questions to the SLS department.

Transfer credit for courses in American Sign Language

Students with prior SLS-related experience are able to receive recognition for learning at other institutions and real-life experience. Madonna University SLS does not offer the option to transfer SLS-related courses as "course equivalents" until students are evaluated on an individual basis and are placed into the appropriate SLS course. Based on this placement, students then receive transfer credit for appropriate lower-level SLS courses.

Transfer students are encouraged to contact the department to arrange for an evaluation and advising.

Acceptance to any Sign Language Studies Program (major and minor)

Adequate progress in American Sign Language course work is essential prior to enrollment in the Interpreting Studies, the Deaf Community Studies, or the ASL Education programs. Students admitted to Madonna University for the Sign Language Studies program (majors or minor), must apply for specific acceptance into the Sign Language Interpreting Studies major, the Deaf Community Studies major, or the ASL Education major or minor during SLS 1020.00, Beginning American Sign Language II. Transfer students placed above SLS 1020.00 during their evaluation must apply for acceptance to a Sign Language Studies program within their first semester in the program. The Sign Language Studies program consists of two components: the ASL core and the specialized courses in the major for Interpreting Studies, Deaf Community Studies, and ASL Education.

The application process includes an application form with a required essay during SLS 1020.00 and an interview with SLS faculty during SLS 2020.00. Students will receive notification of their application and interview results in writing from the department. A copy will be sent to the Office of the Registrar, to facilitate the student's change of declared major.

Students of the Sign Language Studies department must fulfill Madonna University's writing requirement and complete any required course work with a B (3.0) or better, before the end of their third semester of study.

Returning after suspending enrollment

Returning students of the SLS department who have previously suspended their course work for two consecutive semesters or more must be re-evaluated for placement into the program.

Continuation in any Sign Language Studies Program (major and minor)

Linguistic Competence: According to university policy, a grade earned in a major course that is lower than a C (2.0) is not a passing grade. SLS department policy states that a course may be taken a maximum of two (2) times. For example, a student who receives two withdrawal grades, or a withdrawal grade and a grade lower than a C (2.0), or two grades lower than a C (2.0), is not allowed to continue in the program.

STUDENT DECORUM: Professional behavior and appropriate attitude are considered when determining admittance or continuation in the program. This includes adherence to Madonna University's Student Handbook. If at any time a faculty member has a concern about the decorum of a student, she/he may request the convening of a faculty review committee, with the student, to determine the conditions of continuation in the program.

Continuation in the Interpreting Studies Major, specifically

ENGLISH LANGUAGE COMPETENCE: Students in the Interpreting studies program must achieve a grade of B (3.0) or better in WRT 1020 prior to enrolling in SLS 3410.

ASL COMPETENCE: A student with a cumulative GPA in all SLS courses lower than 3.0 will not be allowed to enroll in SLS 3410, the first course in the interpreter course sequence. To continue in the SLS Interpreting Studies major, a student must maintain a minimum cumulative GPA of 3.0 for all SLS courses, and must demonstrate adherence to the NAD-RID Code of Professional Conduct.

Students who maintain a minimum cumulative GPA of 3.0 for all SLS courses have an interview with the SLS Review Committee during their enrollment in SLS 2020.00, to determine the student's potential for success in the interpreting profession.

Sign Language Interpreting Studies Major: Bachelor of Arts (61 s.h.)

PREREQUISITES TO THE MAJOR:

SLS 1000	Sign Language in Society	3 s.h.
SLS 1015	Beginning American Sign Language I	3 s.h.

REQUIRED MAJOR CORE COURSES:

SLS 1020.00	Beginning American Sign Language II	3 s.h.
SLS 1020.LB	Beginning American Sign Language II Lab	1 s.h.
SLS 2010.00	Intermediate American Sign Language I	3 s.h.
SLS 2010.LB	Intermediate American Sign Language I Lab	1 s.h.
SLS 2020.00	Intermediate American Sign Language II	3 s.h.
SLS 2020.LB	Intermediate American Sign Language II Lab	1 s.h.
SLS 2310	Deaf Culture	3 s.h.
SLS 3010.00	Advanced American Sign Language I	3 s.h.
SLS 3010.LB	Advanced American Sign Language I Lab	1 s.h.
SLS 3020.00	Advanced American Sign Language II	3 s.h.
SLS 3020.LB	Advanced American Sign Language II Lab	1 s.h.
SLS 3290	Fingerspelling and Numbers in ASL	2 s.h.
SLS 3810	American Sign Language: Registers	3 s.h.
SLS 4010	American Sign Language: Discourse	3 s.h.
SLS 4020	American Sign Language: Structure	3 s.h.
SLS 4950	Senior Seminar	<u>2 s.h.</u>
		36 s.h.

REQUIRED INTERPRETING STUDIES COURSES:

SLS 3410	Fundamentals of Interpretation and Transliteration	3 s.h.
SLS 4250	Contrastive Text Analysis: ASL and English for Interpreters	3 s.h.
SLS 4450	Simultaneous Interpretation for Interpreters	3 s.h.
SLS 4610	English to ASL: Interpreting Laboratory	3 s.h.
SLS 4750	Interpreting in Specialized Settings (<i>two different topics required, 1 s.h. each</i>)	2 s.h.
SLS 4810	ASL to English: Interpreting Laboratory	3 s.h.
SLS 4850	Advanced Interpreting Laboratory	2 s.h.
SLS 4900	Interpreter Assessment and Credentialing	2 s.h.
SLS 4930	Field Observation: ASL Interpreting	2 s.h.
SLS 4940	Field Placement: ASL Interpreting	<u>2 s.h.</u>
		<u>25 s.h.</u>
		61 s.h.

RECOMMENDED SUPPORT COURSES:

COM 2350	Public Speaking: Theory and Practice	3 s.h.
ENG 2080	Approaches to Grammar	3 s.h.
NSC 1250	Health Problems (FCS)	4 s.h.
SLS 2110	Orientation to Deafness	3 s.h.
SLS 4710	Selected Seminar Topics	1-3 s.h.

Deaf Community Studies Major: Bachelor of Arts (59 s.h.)**PREREQUISITES TO THE MAJOR:**

SLS 1000	Sign Language in Society	3 s.h.
SLS 1015	Beginning American Sign Language I	3 s.h.

REQUIRED MAJOR CORE COURSES:

SLS 1020.00	Beginning American Sign Language II	3 s.h.
SLS 1020.LB	Beginning American Sign Language II Lab	1 s.h.
SLS 2010.00	Intermediate American Sign Language I	3 s.h.
SLS 2010.LB	Intermediate American Sign Language I Lab	1 s.h.
SLS 2020.00	Intermediate American Sign Language II	3 s.h.
SLS 2020.LB	Intermediate American Sign Language II Lab	1 s.h.
SLS 2310	Deaf Culture	3 s.h.
SLS 3010.00	Advanced American Sign Language I	3 s.h.
SLS 3010.LB	Advanced American Sign Language I Lab	1 s.h.
SLS 3020.00	Advanced American Sign Language II	3 s.h.
SLS 3020.LB	Advanced American Sign Language II Lab	1 s.h.
SLS 3290	Fingerspelling and Numbers in ASL	2 s.h.
SLS 3810	American Sign Language: Registers	3 s.h.
SLS 4010	American Sign Language: Discourse	3 s.h.
SLS 4020	American Sign Language: Structure	3 s.h.
SLS 4950	Senior Seminar	<u>2 s.h.</u>
		36 s.h.

REQUIRED DEAF COMMUNITY STUDIES COURSES:

CF 2160	Child Development Birth through Eight	3 s.h.
SLS 2110	Orientation to Deafness	3 s.h.
SLS 2450	Deafness and Community Resources	3 s.h.
SLS 3470	Deaf People and the Law	2 s.h.
SLS 4040	ASL Literature and Drama	3 s.h.
SLS 4941	Field Placement: Deaf Community Studies	3 s.h.
SOC 2020	Social Problems	3 s.h.
WRT 3260	Business and Professional Writing (BUS)	<u>3 s.h.</u>
		<u>23 s.h.</u>
		59 s.h.

RECOMMENDED SUPPORT COURSES:

COM 2350	Public Speaking: Theory and Practice	3 s.h.
ENG 2080	Approaches to Grammar	3 s.h.
NSC 1250	Health Problems (FCS)	4 s.h.
SLS 4710	Selected Seminar Topics	1-3 s.h.

Deaf Community Studies Minor for Interpreting Studies or ASL Education Majors (23 s.h.)**REQUIRED MINOR COURSES:**

CF 2160	Child Development: Birth through Eight	3 s.h.
SLS 2110	Orientation to Deafness	3 s.h.
SLS 2450	Deafness and Community Resources	3 s.h.
SLS 3470	Deaf People and the Law	2 s.h.
SLS 4040	ASL Literature and Drama (<i>for Interpreting Studies majors</i>) or	
SLS 4710	Selected Seminar Topics (<i>three different topics required; for ASL Education majors</i>)	3 s.h.
SLS 4941	Field Placement: Deaf Community Studies	3 s.h.
SOC 2020	Social Problems	3 s.h.
WRT 3260	Business and Professional Writing (BUS)	<u>3 s.h.</u>
		23 s.h.

ASL Education Major: Bachelor of Arts (31 s.h.)***PREREQUISITES TO THE MAJOR:**

SLS 1015	Beginning American Sign Language I	3 s.h.
SLS 1020.00	Beginning American Sign Language II	3 s.h.
SLS 1020.LB	Beginning American Sign Language II Lab	1 s.h.
SLS 2010.00	Intermediate American Sign Language I	3 s.h.
SLS 2010.LB	Intermediate American Sign Language I Lab	1 s.h.
SLS 2020.00	Intermediate American Sign Language II	3 s.h.
SLS 2020.LB	Intermediate American Sign Language II Lab	1 s.h.

REQUIRED MAJOR COURSES:

SLS 1000	Sign Language in Society	3 s.h.
SLS 2310	Deaf Culture	3 s.h.
SLS 3010.00	Advanced American Sign Language I	3 s.h.
SLS 3010.LB	Advanced American Sign Language I Lab	1 s.h.
SLS 3020.00	Advanced American Sign Language II	3 s.h.
SLS 3020.LB	Advanced American Sign Language II Lab	1 s.h.
SLS 3290	Fingerspelling and Numbers in ASL	2 s.h.
SLS 3810	American Sign Language: Registers	3 s.h.
SLS 4020	American Sign Language: Structure	3 s.h.
SLS 4040	ASL Literature and Drama	3 s.h.
EDU 4630**	Theory and Techniques of Instruction: World Languages (PK-12)	2 s.h.
SLS 4950	Senior Seminar	2 s.h.
WL 2710	Language Acquisition	<u>2 s.h.</u>
		31 s.h.

For a degree to be granted in ASL Education, all courses required in the Professional Education Sequence, including Directed Teaching, must be completed.

*American Sign Language majors are required to pass the American Sign Language Proficiency Interview (ASLPI) at an "Advanced Low" rating or higher, prior to student teaching.

****For EDU 4630 – Prerequisites:** EDU 3120 and acceptance to the Teacher Education Program. Prerequisite or corequisite: EDU 4500 or EDU 4530.

ASL Education Minor (23 s.h.)

PREREQUISITES TO THE MINOR:

SLS 1015	Beginning American Sign Language I	3 s.h.
SLS 1020.00	Beginning American Sign Language II	3 s.h.
SLS 1020.LB	Beginning American Sign Language II Lab	1 s.h.
SLS 2010.00	Intermediate American Sign Language I	3 s.h.
SLS 2010.LB	Intermediate American Sign Language I Lab	1 s.h.
SLS 2020.00	Intermediate American Sign Language II	3 s.h.
SLS 2020.LB	Intermediate American Sign Language II Lab	1 s.h.

REQUIRED MINOR COURSES:

SLS 1000	Sign Language in Society	3 s.h.
SLS 2310	Deaf Culture	3 s.h.
SLS 3010.00	Advanced American Sign Language I	3 s.h.
SLS 3010.LB	Advanced American Sign Language I Lab	1 s.h.
SLS 3020.00	Advanced American Sign Language II	3 s.h.
SLS 3020.LB	Advanced American Sign Language II Lab	1 s.h.
SLS 3290	Fingerspelling and Numbers in ASL	2 s.h.
SLS 4040	ASL Literature and Drama	3 s.h.
EDU 4630**	Theory and Techniques of Instruction: World Languages (PK-12)	2 s.h.
WL 2710	Language Acquisition	<u>2 s.h.</u>
		23 s.h.

****For EDU 4630 – Prerequisites:** EDU 3120 and acceptance to the Teacher Education Program. Prerequisite or corequisite: EDU 4500 or EDU 4530.

American Sign Language Minor (31 s.h.)

REQUIRED MINOR COURSES:

SLS 1000	Sign Language in Society	3 s.h.
SLS 1015	Beginning American Sign Language I	3 s.h.
SLS 1020.00	Beginning American Sign Language II	3 s.h.
SLS 1020.LB	Beginning American Sign Language II Lab	1 s.h.
SLS 2010.00	Intermediate American Sign Language I	3 s.h.
SLS 2010.LB	Intermediate American Sign Language I Lab	1 s.h.
SLS 2020.00	Intermediate American Sign Language II	3 s.h.
SLS 2020.LB	Intermediate American Sign Language II Lab	1 s.h.
SLS 2310	Deaf Culture	3 s.h.
SLS 3010.00	Advanced American Sign Language I	3 s.h.
SLS 3010.LB	Advanced American Sign Language I Lab	1 s.h.
SLS 3020.00	Advanced American Sign Language II	3 s.h.
SLS 3020.LB	Advanced American Sign Language II Lab	1 s.h.
SLS 3290	Fingerspelling and Numbers in ASL	<u>2 s.h.</u>
		31 s.h.

SOCIAL STUDIES

Social Studies Major: Bachelor of Arts (39 s.h.)

Social Studies is a strong group major providing important ideas, concepts, and theory from the areas of history, political science, geography, and economics. The major was specifically designed for teacher education students, but is available to all students who wish an interdisciplinary study.

REQUIRED MAJOR COURSES:

ECN 2710	Economics for Human Services	3 s.h.
ECN 4520	Economic and Business History of the U.S. (HIS*)	3 s.h.
GEO 1210	Introduction to Geography	3 s.h.
GEO 3050	World Regional Geography	3 s.h.

HIS 2320	United States to 1900	3 s.h.
HIS 2760	Michigan History	3 s.h.
HIS 3420	Minority Groups in America	3 s.h.
HIS 4540	United States in the Modern Era	3 s.h.
PSC 1510	American Government	3 s.h.
PSC 3030	International Relations	3 s.h.
SSC 4960	Social Science Seminar	3 s.h.

One of the following:	3 s.h.
HIS 1090 Ancient and Medieval World (3 s.h.) or	
HIS 3310 Early Modern World: Age of Discovery and Revolution (3 s.h.) or	
HIS 3320 Modern World (3 s.h.)	

One of the following:	3 s.h.
HIS 4633 Global Studies: Modern Latin America (PSC) (3 s.h.), or	
HIS 4635 Global Studies: Comparative History of Modern World Regions (PSC) (3 s.h.)	

39 s.h.

SOCIAL WORK

Madonna University offers a Bachelor of Social Work (B.S.W.) degree program which is accredited by the Council on Social Work Education. The B.S.W. program is designed to prepare students for entry-level professional employment and for graduate professional education.

Social Work involves enhancing the problem-solving and coping capacities of people; linking people with systems that provide them with resources, services, and opportunities; and promoting humane services, especially for oppressed and vulnerable populations. Emphasis is placed on the value and the strengths of diverse cultures.

The Social Work curriculum is founded on the premise that a social worker needs a well-integrated program of liberal arts content, specific professional content, a global perspective, and a professionally-guided field practicum. These experiences focus on the delivery of services to individuals, families, groups, and organizations, and/or communities within Generalist Practice.

Admission to the B.S.W. Program

Students must apply for admission to the program after completing SW 2310 with a grade of C (2.0) or better and completion of the required support courses with a C (2.0) or better (see below). Applicants must also demonstrate aptitude for social work practice as evidenced in service-learning experiences and recommendations. A GPA of 2.5 or better and completion of at least 45 s.h. of MU Core Curriculum coursework are required at the time of admission. Applications to the social work program are accepted yearly in the fall. Only students formally admitted to the program are merited to enroll in 4000-level SW classes.

Students may take SW 2310 as a corequisite with SW 3400 and SW 3450 provided that required support courses have been completed. These social work courses must be completed before students may continue in the sequence of the program.

Nondiscrimination Policy

The Social Work program provides a learning context that appreciates and recognizes the positive value of diversity and difference. With this as our guide, the program abides by the Nondiscrimination Policy of Madonna University.

Social Work Distance Learning Program—Gaylord

The Social Work Program offers its B.S.W. degree program to students in Northern Michigan with in face-to-face sessions through the University Center at Gaylord. Designed for transfer students, the part-time program may be completed in 2-1/2 years with classes scheduled to accommodate the working adult student. The Gaylord Social Work Distance Learning Program replicates the main campus part-time degree completion program and is accredited by the Council on Social Work Education.

Social Work Major: Bachelor of Social Work (50 s.h.)

REQUIRED MAJOR COURSES:

SW 2310	Introduction to Social Work	3 s.h.
SW 3400	Human Behavior and the Social Environment I	3 s.h.
SW 3410	Human Behavior and the Social Environment II	3 s.h.
SW 3450	Practice Methods I: Individuals	3 s.h.
SW 3750	Practice Methods II: Groups and Families	3 s.h.
SW 3960	Social Research Methods	4 s.h.
SW 4260	Social Welfare History and Policy	4 s.h.
SW 4500	Practice Methods III: Organizations and Communities	3 s.h.
SW 4800	Field Practicum I	4 s.h.
SW 4850	Field Practicum Seminar I	2 s.h.
SW 4900	Field Practicum II	4 s.h.
SW 4950	Field Practicum Seminar II	2 s.h.
SW 4960	Senior Integrative Capstone	3 s.h.
SW Electives		<u>9 s.h.</u>
		50 s.h.

These courses must be taken in sequence. Students must successfully complete a total of 30 hours of service learning at the sophomore and junior levels and 400 hours of field experience at the senior level.

REQUIRED SUPPORT COURSES (13-14 s.h.):

BIO 1010.00 Introductory Biology (3 s.h.) **and** BIO 1010.LB Introductory Biology Lab(1 s.h.)

or

BIO 2250	Basic Human Physiology (3 s.h.)	3-4 s.h.
PSC 1510	American Government	3 s.h.
PSY 1010	General Psychology	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.
SW 2160	Empathy Listening Skills (SOC)	1 s.h.

Social Work Certificate of Completion (15 s.h.)

The Social Work program offers students the opportunity to earn a Social Work Certificate of Completion while fulfilling general education and major course work. The overall goal of the certificate program is to prepare students for positions in social service settings.

Through coursework and service-learning projects, students gain the essential values, knowledge and skills for social services activities and jobs. This certificate is designed for those who wish to work in a variety of social service settings such as non-profit organizations, businesses, Government agencies, churches, and other institutions. The program is structured so a student completing it would meet criteria for the State of Michigan's License for Social Service Technician.

REQUIRED CERTIFICATE COURSES:

SW 2310	Introduction to Social Work	3 s.h.
SW 3400	Human Behavior and Social Environment I	3 s.h.
SW 3410	Human Behavior and Social Environment II	3 s.h.
	Certificate electives, <i>minimum of 6 s.h. from the following</i>	6 s.h.
SW 3450	Practice Methods I: Individuals (3 s.h.)	
SW 3750	Practice Methods II: Groups and Families (3 s.h.)	
SW 3960	Social Research Methods (4 s.h.)	
SW 4260	Social Welfare History and Policy (4 s.h.)	
SW 4500	Practice Methods III: Organizations and Communities (3 s.h.)	
SOC 4930	Sociology Internship (2 s.h.)	

15 s.h.

Addiction Studies Certificate of Completion (12 s.h.)

The Certificate of Completion is a credential from Madonna University. A student planning to also be certified as a State of Michigan Certified Alcohol and Drug Counselor (CADC) should meet with the Addiction Studies coordinator prior to undertaking the Madonna certificate.

REQUIRED CERTIFICATE COURSES:

AS 2000	Introduction to Addictions	1 s.h.
AS 3430	Dynamics of Addiction	1 s.h.
AS 3440	Family Systems	1 s.h.
AS 4840	Ethical Professional Practices (PSY/SW)	1 s.h.
PSY 1010	General Psychology	3 s.h.
	Addiction Studies electives	<u>5 s.h.</u>
		12 s.h.

SOCIOLOGY

The Sociology major provides students with the opportunity to gain the necessary skills to succeed in the 21st century's labor market which is fast-changing, increasingly global and technologically driven. Twenty-first century careers are also marked by constant change and increasing diversity. Many of the jobs that students seek after graduating are those that require analytic problem-solving, communication, collaboration, multicultural and global understandings, and effective writing skills. For students pursuing careers in closely related fields such as social work, psychology, marketing, sign language studies, criminal justice, social services, counseling or personnel, course work in research methods, sociological theory, and other substantive areas will provide a solid foundation for admission to graduate school.

Sociology Major: Bachelor of Arts (34 s.h.)

REQUIRED MAJOR COURSES:

PSC 1510	American Government	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.
SOC 2020	Social Problems	3 s.h.
SOC 3950	Social Theory	3 s.h.
SOC 3970	Research Methods in the Social Sciences (PSC)	
		3 s.h.
SOC 4900	Applied Social Research Methods	2 s.h.
SOC 4930	Sociology Internship	2 s.h.
SOC 4950	Sociology Seminar	2 s.h.
	Major electives*	<u>13 s.h.</u>
		34 s.h.

*Electives may be chosen from remaining courses listed or cross-listed in Sociology (see Course Description section of Catalog).

Students are encouraged to discuss expanding career opportunities in sociology with their sociology advisor.

Humane Studies Minor (20 s.h.)

REQUIRED MINOR COURSES:

AGE 4040	Proposal Writing and Grant Administration (EM/SOC/SW)	3 s.h.
HUM 3210	Do Animals Matter?	3 s.h.
HUM 3410	Sustainability: Vision and Values (RST/SOC)	3 s.h.
HUM 4300	Humane Studies (SOC)	3 s.h.
RST 3100	Franciscan Values, Social Justice, and Service	3 s.h.
SOC 1300	Introduction to Community Leadership	1 s.h.
SOC 3120	Diversity, Discrimination and Social Justice	3 s.h.
SOC 3710	Special Topics in Sociology	<u>1 s.h.</u>
		20 s.h.

Sociology Minor (20 s.h.)

REQUIRED MINOR COURSES:

PSC 1510	American Government	3 s.h.
SOC 1020	Introduction to Sociology	3 s.h.
SOC 2020	Social Problems	3 s.h.
SOC 3120	Diversity, Discrimination, and Social Justice	3 s.h.
SOC 3130	Sociology of the Family	3 s.h.
Minor electives*		<u>5 s.h.</u>
		20 s.h.

*Electives may be chosen from remaining courses listed or cross-listed in Sociology (see Course Description section of Catalog).

COMMUNITY LEADERSHIP CERTIFICATE

See listing under COMMUNITY LEADERSHIP.

SPANISH

The Spanish program prepares students to communicate effectively and in a culturally- appropriate way with the Spanish-speaking community living in the United States and abroad. Students are provided exploratory opportunities to study the Spanish language and Latino culture within the context of the classroom as well as experiential opportunities to work with Latino communities in Michigan, the United States and abroad.

Spanish Major: Bachelor of Arts (30 s.h. beyond elementary level.)**

REQUIRED MAJOR COURSES:

SPA 2230	Intermediate Spanish I	3 s.h.
SPA 2240	Intermediate Spanish II	3 s.h.
SPA 3250	Cultures of Spain and Spanish America	3 s.h.
SPA 3260	Cultures of Latinos in the U.S.	3 s.h.
SPA 3320	Oral and Written Composition	3 s.h.
SPA 4300	Spanish Linguistics	3 s.h.
SPA 4400	Spanish in the U.S.	3 s.h.
Electives in SPA and/or WL 2100 or WL 4900		<u>9 s.h.</u>
		30 s.h.

Spanish Minor (20 s.h. beyond elementary level.)**

REQUIRED MINOR COURSES:

SPA 2230	Intermediate Spanish I	3 s.h.
SPA 2240	Intermediate Spanish II	3 s.h.
SPA 3250	Cultures of Spain and Spanish America (3 s.h.) or	

SPA 3260	Cultures of Latinos in the U.S. (3 s.h.)	3 s.h.
SPA 3320	Oral and Written Composition	3 s.h.
SPA 4300	Spanish Linguistics (3 s.h.) or	
SPA 4400	Spanish in the U.S. (3 s.h.)	3 s.h.
Electives in SPA and/or WL 2100 or WL 4900		<u>5 s.h.</u>
		20 s.h.

*SPA 1030, SPA 1040, are elementary level courses not applicable toward major or minor.

Business Spanish Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

*SPA 2230	Intermediate Spanish I	3 s.h.
*SPA 2240	Intermediate Spanish II	3 s.h.
SPA 3010	Business Spanish	<u>3 s.h.</u>
		9 s.h.

Spanish for Law Enforcement Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
*SPA 1030	Elementary Spanish I	3 s.h.
*SPA 1040	Elementary Spanish II	3 s.h.
SPA 1110	Spanish for Criminal Justice (CJ)	<u>3 s.h.</u>
		12 s.h.

*Students who place into higher-level Spanish courses, or who would otherwise not reach 50% of certificate course work at Madonna University are advised to substitute higher-level SPA courses into the certificate.

Spanish for Teacher Certification Major: Bachelor of Arts (31 s.h. beyond intermediate level. **)

REQUIRED MAJOR COURSES:

SPA 3250	Cultures of Spain and Spanish America	3 s.h.
SPA 3260	Cultures of Latinos in the U.S.	3 s.h.
SPA 3320	Oral and Written Composition	3 s.h.
SPA 4100	Survey of Literature in Spanish	4 s.h.
SPA 4300	Spanish Linguistics	3 s.h.
SPA 4400	Spanish in the U.S.	3 s.h.
WL 2710	Language Acquisition	2 s.h.
Electives in SPA and/or WL 4900		<u>10 s.h.</u>
		31 s.h.

Spanish for Teacher Certification majors are required to complete satisfactorily a Senior Comprehensive Examination prior to student teaching. For the Senior Comprehensive, students take the Oral Proficiency Interview-Computer (OPIc) of the American Council on the Teaching of Foreign Languages (ACTFL).

Spanish for Teacher Certification Minor (21 s.h. beyond intermediate level. **)

REQUIRED MINOR COURSES:

SPA 3250	Cultures of Spain and Spanish America (3 s.h.) or	
SPA 3260	Cultures of Latinos in the U.S. (3 s.h.)	3 s.h.
SPA 3320	Oral and Written Composition	3 s.h.
SPA 4100	Survey of Literature in Spanish	4 s.h.
SPA 4300	Spanish Linguistics (3 s.h.) or	
SPA 4400	Spanish in the U.S. (3 s.h.)	3 s.h.
WL 2710	Language Acquisition	2 s.h.
Electives in SPA and/or WL 4900		<u>6 s.h.</u>
		21 s.h.

Spanish minors for Teacher Certification are required to complete satisfactorily a Senior Comprehensive Examination

prior to student teaching. For the Senior Comprehensive, students take the Oral Proficiency Interview-Computer (OPIC) of the American Council on the Teaching of Foreign Languages (ACTFL).

**SPA 1030, SPA 1040 and SPA 2230, SPA 2240 are intermediate-level courses, not applicable toward major or minor for teacher certification.

SPEECH COMMUNICATION

This is the program to select when seeking teacher certification in Speech.

Speech Communication Minor (24 s.h.)

REQUIRED MINOR COURSES:

COM 1050	Communication Concepts and Contexts	3 s.h.
COM 2350	Public Speaking: Theory and Practice	3 s.h.
COM 2550	Oral Interpretation of Literature (ENG)	3 s.h.
COM 3100	Small Group Communication*	3 s.h.
COM 4010	Mass Communication (BCA/JRN*)	3 s.h.
Minor electives, to be chosen from:		9 s.h.
COM 2330 Interviewing Techniques (3 s.h.)		
COM 2140 Argumentation and Persuasion (3 s.h.)		
COM 2610 Television Production I (BCA*/JRN) (3 s.h.)		
COM 3030 Children's Literature and Drama (ENG*) (3 s.h.)		
COM 3410 Acting Techniques I (4 s.h.)		
COM 3420 Acting Techniques II (4 s.h.)		
		24 s.h.

*NOTE: If the Speech minor is being developed specifically for endorsement of an Elementary (K-8) teaching certificate, the student may choose to substitute an elective for COM 3100.

See also the listings under Communication Studies.

SPORT MANAGEMENT

The Sport Management program prepares students for business careers in sport and recreation. Through an interdisciplinary curriculum, we provide students with the necessary coursework, experiential opportunities and networking to acquire and build the knowledge, skills and relationships needed for this dynamic industry. Our professors share their varied industry experience to assist students in critically examining both business and socio0cultural aspects of the industry through a combination of business, economics, marketing and sociology courses. Hands-on activities, site visits, in-depth discussions and internships prepare students to address current trends and future challenges in the ever-changing landscape of sports and recreation. Students select a concentration and are encouraged to combine this major with a minor in another program to make you more marketable or pursue specific segment careers such as in broadcasting or social media.

Some majors, minors and concentrations have courses that are offered online, through a consortium of regionally accredited colleges and universities. Instruction is provided by faculty employed by those partner institutions within the consortium, with technology and administrative support provided by Rize Education. Refer to the Consortia section of this catalog for more information. Contact the Registrar's Office at registrar@madonna.edu with any questions.

Sport Management Major: Bachelor of Science (41-44 s.h.)

REQUIRED MAJOR COURSES:

BUS 2020	Career Planning	1 s.h.
BUS 4930	Internship	1-4 s.h.
SM 1100	Introduction to Sport Management	3 s.h.
SM 1220	Career Exploration and Development in the Sport Industry	3 s.h.
SM 2100	Media Relations in Sport	3 s.h.
SM 2300	Social Issues in Sport Management	3 s.h.
SM 3100	Facility Design and Event Management	3 s.h.
SM 3300	Sport Marketing	3 s.h.
SM 4100	Legal and Ethical Aspects of Sport	3 s.h.
SM 4300	Budgeting and Financing of Sport	3 s.h.
SM 4500	Sport and Human Relations (3 s.h.), or	
SM 4550	Sport Ticket Sales and Systems (3 s.h.)	3 s.h.
SM 4950	Senior Seminar in Sport Management	2 s.h.

At least one of the following Certificates of Completion is required with the Sport Management major): 9-12 s.h.

- Coaching (9 s.h.)
- Digital Media (12 s.h.)
- Entrepreneurship for Sport Management Professionals(12 s.h.)
- Esports and Gaming Administration (12 s.h.)
- Pre-Law Studies (12 s.h.)

41-44 s.h.

REQUIRED SUPPORT COURSES (18 s.h.):

ACC 2000	Survey of Accounting	3 s.h.
BL 3330	Business Law	3 s.h.
BUS 3260	Business and Professional Writing (WRT*)	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MIS 2400	Principles of Management Information Systems	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.

REQUIRED FOUNDATION COURSES (4 S.H.)

MTH 2350	Probability and Statistics	4 s.h.
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Sport Management Minor (24 s.h.)

REQUIRED MINOR COURSES:

SM 1100	Introduction to Sport Management	3 s.h.
SM 2100	Media Relations in Sport	3 s.h.
SM 2300	Social Issues in Sport Management	3 s.h.
SM 3100	Facility Design and Event Management	3 s.h.
SM 3300	Sport Marketing	3 s.h.
SM 4100	Legal and Ethical Aspects of Sport	3 s.h.
SM 4300	Budgeting and Financing of Sport	3 s.h.
SM 4500	Sport and Human Relations (3 s.h.), or	
SM 4550	Sport Ticket Sales and Systems (3 s.h.)	3 s.h.
		24 s.h.

Coaching Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

PED 1200	Introduction to Athletic Training or	
PED 2280	First Aid and Safety	2 s.h.
PED 2710	Coaching Principles (SM)	3 s.h.
PSY 2700	Child Psychology (FCS) or	
PSY 3130	Adolescent Psychology (FCS)	4 s.h.
		9 s.h.

Digital Media Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

GDA 1730 Digital Layout	3 s.h.
BCA 2610 Television Production	3 s.h.
MKT 3310 Social Media Marketing	3 s.h.
QS 2500 Principles of Data Analytics	<u>3 s.h.</u>
	12 s.h.

REQUIRED SUPPORT COURSES (3 s.h.):

SM 2100 Media Relations in Sport	3 s.h.
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Esports and Gaming Administration (12 s.h.)**REQUIRED CERTIFICATE COURSES:**

SM 1210 Introduction to Games	3 s.h.
SM 1300 Introduction to Esports Management s.h.	3
SM 3210 Convention, Event and Tradeshow Planning	3 s.h.
SM 4210 Game and Publishing and Distribution	<u>3 s.h.</u>
	12 s.h.

Entrepreneurship for Sport Management Professionals Certificate of Completion (12 s.h.)**REQUIRED CERTIFICATE COURSES:**

BUS 3690 Business Ethics	3 s.h.
MGT 3690 Entrepreneurship	3 s.h.
MKT 3880 Professional Selling and Sales Management	3 s.h.
SCM 2650 Operations and Supply Chain Management	<u>3 s.h.</u>
	12 s.h.

Pre-Law Studies Certificate of Completion (12 s.h.)**REQUIRED CERTIFICATE COURSES:**

LAW 1010 Legal Research and Writing I	3 s.h.
LAW 2100 Law, Society, and Politics (PSC/SOC)	3 s.h.
PSC 2350 American Judicial Process (CJ*)	3 s.h.
PSC 4050 Constitutional Law (CJ*)	<u>3 s.h.</u>
	12 s.h.

Sport Management Post-Baccalaureate Certificate of Achievement (30 s.h.)**REQUIRED CERTIFICATE COURSES:**

SM 1100 Introduction to Sport Management	3 s.h.
SM 2100 Media Relations in Sport	3 s.h.
SM 2300 Social Issues in Sport Management	3 s.h.
SM 2930 Sport Management Internship I	1 s.h.
SM 3100 Facility Design and Event Management	3 s.h.
SM 3300 Sport Marketing	3 s.h.
SM 4100 Legal and Ethical Aspects of Sport	3 s.h.
SM 4300 Budgeting and Financing of Sport	3 s.h.
SM 4500 Sport and Human Relations	3 s.h.
SM 4930 Sport Management Internship II	3 s.h.
SM 4950 Senior Seminar in Sport Management	<u>2 s.h.</u>
	30 s.h.

SPORT MEDIA AND COMMUNICATION**Sport Media and Communication Minor (21 s.h.)****REQUIRED MINOR COURSES:**

GDA 1730 Digital Layout	3 s.h.
BCA 2610 Television Production I (COM/JRN)	3 s.h.
JRN 2050 Public Relations Writing	3 s.h.
SM 2100 Media Relations in Sport (JRN)	3 s.h.
SM 3910 Internship	3 s.h.
Minor elective courses: Choose two	6 s.h.
ART 1720 Digital Imaging (3 s.h.)	

BCA 2810 Field Production and Editing I (JRN) (3 s.h.)	
JRN 4010 Mass Communication (BCA/COM) (3 s.h.)	
SM 1100 Introduction to Sport Management (BUS) (3 s.h.)	

21 s.h.**STEM EDUCATION****STEM Education Certificate of Completion (22 s.h.)****REQUIRED CERTIFICATE COURSES:**

PSY 1010 Intro to Psychology	3 s.h.
EDU 2005 Intro to Professional Education	2 s.h.
EDU 3460 Instructional Media	3 s.h.
MTH 1050 College Algebra	4 s.h.
MTH 2350 Probability & Statistics	4 s.h.
ESS 2040 Oceans	3 s.h.
NSC 3740.00 Science Foundations II (EDU)	<u>3 s.h.</u>
	22 s.h.

SUPPLY CHAIN MANAGEMENT

See concentration and minor under BUSINESS ADMINISTRATION.

SUSTAINABILITY STUDIES

See listing under ENVIRONMENTAL SCIENCE.

TELEVISION AND VIDEO COMMUNICATIONS

See listing under BROADCAST AND CINEMA ARTS.

VISUAL ARTS EDUCATION

See listing under ART.

VISUAL COMMUNICATION

See listing under ART.

VOCAL PERFORMANCE

See listing under MUSIC.

WRITING

Designed for the student who is pursuing or exploring a career as a writer, this general major provides a theoretical framework, intensive practice, and professional guidance. A broad choice of electives allows students to focus on their own areas of interest.

Writing Major: Bachelor of Arts (36-39 s.h.)**REQUIRED MAJOR COURSES:**

ENG 2620 Language and Culture	3 s.h.
JRN 2050 Public Relations Writing or	
JRN 2860 Editorial and Feature Writing	3 s.h.
WRT 2050 Creative Writing	3 s.h.
WRT 2440 Technical Writing or	
WRT 3260 Business and Professional Writing	3 s.h.
WRT 4000 Rhetorical Theory and Criticism (COM)	4 s.h.
WRT 4950 Senior Seminar: Writing for Publication	3 s.h.
Major electives, six courses at a minimum to be chosen from the following:	17-20 s.h.

AGE 4040	Proposal Writing and Grant Administration (EM/SOC) (3 s.h.)
BCA 1010	Survey of Broadcast, Film, and Digital Media (JRN) (3 s.h.)
BCA 3030*	Writing for Radio, TV, and Film (JRN) (3 s.h.)
COM 2140	Argumentation and Persuasion (3 s.h.)
COM 4010	Mass Communication (BCA/JRN*) (3 s.h.)
ENG 2700	Critical Writing and Literacy Analysis (3 s.h.)
JRN 1320	News Reporting (WRT) (3 s.h.)
JRN 2050	Public Relations Writing (3 s.h.)
JRN 2860	Editorial and Feature Writing (3 s.h.)
JRN 3570	Editing and Design (3 s.h.)
MIS 2850	Web Design for Business Applications (3 s.h.)
WRT 2440	Technical Writing (3 s.h.)
WRT 3100	Advanced Composition (3 s.h.)
WRT 3250	Writing Creative Nonfiction (4 s.h.)
WRT 3260	Business and Professional Writing (BUS)(3 s.h.)
WRT 3490	Publication Software for Technical Writers (3 s.h.)
WRT 4750	Topics in Writing (1-4 s.h.)
WRT 4910	Cooperative Education in Writing (3 s.h.)
WRT 4930	Writing Practicum (3 s.h.)

36-39 s.h.

* Note:

BCA*/COM/JRN 3030 requires a prerequisite of BCA*/COM/JRN 2610, Television Production I, 3 s.h.

Writing Minor (24-28 s.h.)

REQUIRED MINOR COURSES:

ENG 2620	Language and Culture	3 s.h.
JRN 2050	Public Relations Writing or	
JRN 2860	Editorial and Feature Writing	3 s.h.
WRT 2050	Creative Writing	3 s.h.
WRT 2440	Technical Writing or	
WRT 3260	Business and Professional Writing (BUS)	3 s.h.
WRT 4000	Rhetorical Theory and Criticism (COM)	4 s.h.
Minor electives, chosen from major electives		<u>8-12 s.h.</u>
		24-28 s.h.

Section III:

Course Descriptions

Course Descriptions

WHAT FOLLOWS IS A DESCRIPTION of all undergraduate-level courses offered at Madonna University. Students are encouraged to see their academic advisors to review courses and to make course selections.

An asterisk (*) is included in parentheses after the rubric of a course which is cross-listed from another department; the asterisk indicates the department from which the course originates and in which the full course description can be found. Example:

FCS 2270 Human Nutrition (NFS*) 3 s.h.

This course originates in the Nutrition and Food Science (NFS) Department. The full course description is found at NFS 2270.

COURSE NUMBERING GUIDELINES

The following guidelines for course numbering are intended to facilitate an understanding of and the consistent use of the course numbering system at Madonna University, particularly for student advisement and new course development.

1xxx = 1000 level courses are open to all students (e.g., PSY 1010).

2xxx = 2000 level courses are open to sophomores, juniors, seniors, and qualified first year students (e.g., HUM 2040.)

3xxx = 3000 level courses are open to juniors, seniors, and other qualified first year students (e.g., NSC 3250.)

4xxx = 4000 level courses are open to seniors and other qualified students (e.g., HIS 4320).

Although some courses at and above the 2000 level do not have explicit prerequisites, there is an implicit prerequisite of class standing or comparable level of academic preparation for such course.

All students should be encouraged to work at the level of their ability. Although students in upper grade levels are permitted to take courses numbered in the lower sequences, they should be discouraged for doing so habitually.

The difficulty of course work increases with thousands place only (i.e., CHM 3610 is not necessarily more difficult than CHM 3310.)

SECONDARY DIVISIONS:

x180, x190 = Courses offered for the short term (e.g., BUS 4190)
x200, x600 = Independent Study (e.g., HUM 3600)

x802, x803 = Study Abroad

x910, x920 = Co-op or Internship coordinated through the Office of Career Development (e.g., JRN 4910)

x930, x940 = Internship/Practicum through departmental arrangements (e.g., INB 4930)

4950/4960 = Senior Seminars and Capstones (e.g., SSC 4960)

Accounting (ACC)

ACC 2000 Survey of Accounting 3 s.h.

Survey for students in non-business majors and non-business minors. Introduction to both financial and managerial accounting concepts and topics; reading and interpreting a complete set of financial statements for an organization, the conceptual foundation and terminology of financial accounting, understanding the nature and role of an internal control system, and analyzing financial and non-financial data to assist managers in making operating decisions.

ACC 2010 Principles of Accounting I 3 s.h.

An introduction to the theory and concepts of financial accounting, including generally accepted accounting principles and issues as to classification, recognition, realization, measurement, and reporting. Emphasis on the accounting process, including preparation of basic financial statements and the accounting for and analysis of transactions affecting assets, selected liabilities, and equity. Prerequisite: MTH 1050 or equivalent.

ACC 2020 Principles of Accounting II 3 s.h.

Continued study of the theory and concepts of financial accounting. Emphasis on accounting for and the analysis of transactions affecting selected liabilities, special topics, and types of entities. An introduction to managerial-cost accounting principles and techniques of analysis, including budgeting, cash flows, product and standard costing, short-term operational decisions, financial ratio analysis and capital budgeting. Prerequisite: ACC 2010.

ACC 3030 Intermediate Accounting I 3 s.h.

An intermediate level examination of the basic accounting statements and underlying accounting principles. Topics include: present value concepts, current assets and liabilities, and tangible and intangible assets. Prerequisite: ACC 2020.

ACC 3040 Intermediate Accounting II 3 s.h.

A continuation of the intermediate level examination of the basic accounting statements and underlying accounting principles. Topics include: accounting for leases, pensions, income taxes, earnings per share, financial statement analysis, long-term liabilities, equity transactions, and cash flow statements. Prerequisite: ACC 3030. *Must be taken at Madonna University.*

ACC 3050 Intermediate Accounting 4 s.h.

An intermediate level examination of the financial statements: Income Statement, Statement of Stockholder's Equity, Balance Sheet and the Statement of Cash Flows. Topics include valuation methods of Assets, Liabilities, Equity, Revenue and Expenses. Accounting methods include capital maintenance, comprehensive income, cash-to-accrual, time value of money methods, direct and indirect methods used for the Statement of Cash Flows, asset exchanges and

changes in accounting principles. Weighted average accumulated expenditures, actual and avoidable interest calculations. Earnings per share (diluted), debt and equity financing. Prerequisite: ACC 2020.

ACC 3400 Accounting Information Systems 4 s.h.

Involves a study of fundamental principles of accounting and information systems data and analysis related primarily to corporations and to cost and management accounting topics encountered by accounting and computer personnel. Design and control of systems for the origination, development, and use of accounting information systems are studied including an analysis of computer usage for accounting applications. Emphasis is placed on the inter-relationship among the components of accounting systems and the use of the personal computer in the maintenance and reporting of accounting information. Prerequisite: CIS 2380 and ACC 2010.

ACC 3410 Accounting Information Systems 3 s.h.

Involves a study of fundamental principles of accounting and information systems data and analysis as they relate to business enterprises and processes. Design and control of systems for the origination, development, and use of accounting information systems are studied. Emphasis is placed on the inter-relationship among the components of accounting systems; the use of technology in the design, maintenance, and reporting of accounting information; and the importance of internal controls to mitigate risk.

ACC 3580 Taxation I 3 s.h.

A study of the principles of taxation emphasizing the individual as a taxable entity. Included is a study of tax law as it pertains to inclusions in gross income, exclusions from gross income, and deductions available to the taxpayer. Prerequisites: ACC 2020 and BL 3330 or instructor's consent. *Must be taken at Madonna University.*

ACC 3590 Taxation 4 s.h.

This course examines the United States tax laws and introduces the fundamental taxation concepts, including the definition of income, computation of tax liability, exclusions from income, basis, deductions available, and the assignment of income. Emphasis is placed on the taxation of individuals and various business entities.

ACC 3610 Taxation II 3 s.h.

Continued study of principles of taxation; emphasis on business entities, estates, and trusts. Prerequisite: ACC 3580

ACC 3910 Cooperative Education 1 s.h.

ACC 4050 Advanced Accounting 3 s.h.

Advanced accounting theory and current Generally Accepted Accounting Principles (GAAP) to business combinations and consolidated financial statements, partnership accounting, foreign currency transactions and translation, bankruptcy, and derivative transactions, including options and swaps. Prerequisites: ACC 3030 and ACC 3040.

ACC 4060 Government and Non-Profit Accounting 3 s.h.

An analysis of accounting and reporting issues that are unique to governmental and nonprofit entities. These include fund accounting, budgetary accounts, and procedures, accountability to donors, and auditing and taxation issues for all levels of governmental entities including local, state, and

federal. Nonprofit entities include civic, charitable, educational, and healthcare organizations. Prerequisite: ACC 3030 and ACC 3040, ACC 4050.

ACC 4500 Auditing 3 s.h.

Analysis of the audit process, the audit examination, and procedures for completing the audit test. Emphasis on generally accepted auditing standards and professional ethics. Prerequisite: ACC 3040.

ACC 4700 Cost Accounting 3 s.h.

Study of various costing methodologies and their interrelationship to managerial issues for planning, managing, controlling, and evaluating business operations. Topics include standard costing and variance analysis, sales variances, process costing issues, allocation methods for service departments and joint/by-product costs, determination of cost functions, pricing, interrelationship with operations research, and strategic control systems. Prerequisites: FIN 3150 and QS 2500. *Must be taken at Madonna.*

ACC 4730-4740 Seminars 1-3 s.h. (max 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

ACC 4730 Research Seminar 3 s.h.

ACC 4740 General Topic Semester 1-3 s.h.

ACC 4800 Forensic Accounting 3 s.h.

The objectives and procedures associated with forensic accounting and fraud audits. Topics include audit procedures and responsibilities associated with fraud, criminal law issues and procedures, internal control and information systems design, the Sarbanes-Oxley Act, and issues associated with identity theft. Prerequisites: ACC 2010 and ACC 3410.

ACC 4820 Advanced Taxation 3 s.h.

Advanced understanding of the concepts, principles, rules of tax law and tax accounting applicable to individuals and various entities. Students identify and implement tax planning strategies for domestic and international tax transactions, moving beyond presenting issues to examine financial reporting decisions and the risk tolerance of all stakeholders. Prerequisite: ACC 3590.

ACC 4830 Advanced Auditing 3 s.h.

A framework for analyzing contemporary auditing and assurance issues is provided as a basis for research and evaluation of auditing concepts through readings, professional literature, and case study analysis. Students develop an advanced conceptual and technical understanding of the attest function from an external and internal perspective. Prerequisites: ACC 4500.

ACC 4900 Contemporary Issues in Cost Management 3 s.h.

Current Issues in management accounting practice and theory, includes activity-based management techniques, performance motivation and evaluation issues, and cost of quality. Students critically evaluate the applicability of new ideas and strategies to the contemporary business environment. Prerequisite/Corequisite: ACC 4700.

ACC 4930 Accounting Internship 3 s.h.

Accounting Internships offer experiential learning activities designed to provide students with opportunities to make connections between accounting academics (theory) and

the profession of accountancy practice. The accounting internship provides practical experience in the areas of accounting services, taxation, auditing functions, and financial forecasting. Prerequisite: Senior Standing.

Addiction Studies (AS)

AS 2000 Introduction to Addictions 1 s.h.

Introduction to the field of addiction studies and the scope of chemical and non-substance related addiction issues in the United States. Definition of terms, review of different theories of addiction, examination of the disease concept of chemical and non-substance-related addictions, and of the continuum of care options for clients. Discussion of standards for ethical behavior in the field and opportunities for professional practice.

AS 2120 Diverse Populations 1 s.h.

Examination of special needs, issues, and interventions for individuals with chemical dependency problems and non-substance related addictions and their significant others specific to culture, customs, race, ethnicity, language, age, religion, gender, sexual preference, disabilities, criminal background, and other cultural characteristics. Emphasis placed on cultural competence and unique diversity issues in Southeastern Michigan.

AS 2450 Addiction Studies: Counseling Models 1 s.h.

Overview of counseling models used in the field of chemical dependency treatment: empathic understanding, case management, problem solving, use of cognitive-behavioral, and solution-orientated and relapse prevention approaches.

AS 3390 Addiction Studies: Dual Diagnosis (PSY) 1 s.h.

An introduction to understanding the assessment and treatment of individuals who have a dual disorder of mental illness and chemical dependency, including presentation of specific intervention strategies and program designs.

AS 3430 Dynamics of Addiction 1 s.h.

This course examines different perspectives on the identification, assessment, and treatment of an individual with a chemical and/or a non-substance related addictive disorder from person-in-environment & risk/resilience perspectives. Topics include the personal, community, and social costs of addiction, effective treatment, and harm reduction strategies, individual and family self-help, the obstacles to treatment revision, and approaches to relapse prevention.

AS 3440 Family Systems 1 s.h.

Chemical and non-substance related addictions: analysis of family roles, rules, relationships, and rituals. Discussion of the dynamics of codependency, issues for minor and adult children of chemically and non-substance related families, family violence, psychosocial and economic issues, and resources for family recovery.

AS 3460 Addiction Studies: Prevention 1 s.h.

An overview of current strategies used in prevention programs. Introduction to school-based and community programs on the primary, secondary, and tertiary levels of prevention. Review

of local, state, and national efforts including campus prevention.

AS 3540 Substance Use and HIV 1 s.h.

An introduction to issues relevant to the chemical dependency treatment field as it encounters the impact of HIV factors related to treatment considerations, methods for reducing high risk behaviors, prevention measures, high risk groups, social interventions, and epidemiologic and psychiatric data; pertinent information on the connection between drug use and HIV in the treatment field.

AS 3560 Addiction Studies: Grief and Loss 1 s.h.

Intervention strategies presented to deal with this vital therapeutic issue, including the Twelve Steps of Alcoholics Anonymous.

AS 3610 Addiction Studies: Recovery and Spirituality 1 s.h.

Spirituality as a key element of chemical dependency treatment. Themes such as healing, forgiveness, and acceptance discussed within the context of addiction and holistic recovery. Specific intervention strategies presented to deal with this vital therapeutic issue, including the Twelve Steps of Alcoholics Anonymous.

AS 3620 Addiction: Adolescence 1 s.h.

Identification of issues unique to adolescent chemical dependence. Analysis of the stages of emotional growth and social development, effects on parents and siblings, and obstacles to treatment.

AS 3630 Addiction Studies: Older Adults (AGE) 1 s.h.

The issues of chemical dependency and older adult. Focus on assessment, psychosocial factors, treatment strategies, mode; program designs, and other community resources that address this high-risk client population.

AS 3650 Women and Addiction: Gender-Responsive Approaches 1 s.h.

The purpose of this course is to set forth a biopsychosociocultural framework to identify and analyze issues specifically related to women with chemical and non-substance-related addictions. Discussion includes emotional and psychological dynamics; the principles of gender-specific treatment; the impact of societal values; the relationship between addictions and trauma; engagement, treatment, and retention strategies; barriers to treatment; relapse and ethical issues.

AS 3760 Disordered Gambling 1 s.h.

An introduction of the dynamics of gambling as an addictive behavior: types of gambling opportunities, the scope of the problem, types of gamblers, contemporary screening and assessment instruments, co-morbidity with alcohol dependence, intervention strategies, and multi-faceted family issues. At-risk populations, such as adolescents and older adults, are highlighted.

AS 3850 Eating Disorders 1 s.h.

Explores the complexities of a variety of eating disorders as described in the DSM-5, including biological, genetic, environmental and psychological aspects. Content covered includes: the etiology of eating disorders, body image perceptions, societal norms and stigmas, co-occurring

disorders, medical complications, the assessment/diagnosis process, evidence-based treatment approaches, formulation of treatment plans, levels of care, related ethical issues, qualifications and certifications for practitioners and relevant peer-reviewed studies.

AS 3870 Neurobiology of Drug Addiction (PSY) 1 s.h.

An overview of normal brain functioning and the influence of addictive drugs like heroin and cocaine on brain cells; the evidence for the brain's reward pathway as a crucial neural substrate for drug addiction; drug tolerance, dependence, and withdrawal defined in neurophysiological terms.

AS 4490 Addiction Studies: Planning and Treatment 1 s.h.

Introducing the process of planning and treatment in the field: assessment of problems, development of treatment plans, creation of behaviorally-specific goals and objectives, designing interventions, and planning for the termination of treatment. Students learn skills in clinical problem solving and the documentation of interventions and outcomes.

AS 4840 Ethical Professional Practices (PSY/SW) 1 s.h.

Issues that impact ethical decision making as carried out in counseling practice: the ethical standards set by professional associations, steps to making ethical decisions in professional practice, development of the counselor's ethical identity, a comprehensive analysis of cultural considerations as they relate to ethical decision making and legal issues.

AS 4930 Addiction Studies: Practicum 1-4 s.h.

An opportunity to pursue field work directly related to chemical dependency treatment. The experience includes observation, data collection, and direct service. A capstone course that integrates the content of addiction studies courses with actual practice.

Aging Studies (AGE)

AGE 1070 Introduction to the Aging Experience 3 s.h.

Never before in human history have so many people lived into old age. This aging population impacts the aging individual, families, communities, and social policy. An overview of the field of aging, with attention to the cultural, social, psychological, and economic factors which influence the life of the older adult.

AGE 2300 Programs and Services for Older Adults 3 s.h.

Focus on the continuum of care. Lectures by practitioners in gerontology on the range of programs, services, and resources available for older adults and family caregivers.

AGE 2420 Nutrition for the Aging (NFS*) 2 s.h.

AGE 3030 Spirituality of Aging (RST) 1 s.h.

Explores the spiritual tasks of the later years with an emphasis on integrating and understanding of those tasks into the practitioner's own journey of aging into their professional work with older adults.

AGE 3070 Psychology of Midlife and Aging (PSY) 3 s.h.

What does it really mean to be a grown up? Examine adult psychological development from midlife to later years,

including behavior and coping strategies as well as the cognitive, personality, and intellectual changes that occur with aging. Prerequisite: PSY 1010.

AGE 3150 How and Why the Body Ages 3 s.h.

Study processes that affect normal aging of the human body, as well as age-related chronic diseases. Examination of strategies that contribute to health and vitality into later life. Focus on life choices through the life span to promote positive responses to physical aging.

AGE 3110 Alzheimer's Disease and Dementia Care 3 s.h.

An overview of Alzheimer's disease and other causes of dementia in older adults. Explores current approaches to managing these illnesses and the causes of their behavioral manifestations. Includes current research, resources and support for navigating the unique challenges of dementia care giving.

AGE 3630 Addiction Studies: Older Adults (AS*) 1 s.h.

AGE 3860 Public Policy and Advocacy in Aging (PSC) 3 s.h.

An overview of public policies, legislation, legal issues, and resources affecting older persons in the United States. Examination of the legal and social elements that form public policy, as well as approaches to advocate for change at individual and social levels.

AGE 3900 Care Management for Older Adults 3 s.h.

The theory and practice of care management. Content includes the five core functions, development of comprehensive care plans, monitoring of client's progress toward achieving intervention goals, and discussion of ethical practice standards. The role of diversity, client rights, and professional values in the practice of care management also addressed.

AGE 4040 Proposal Writing and Grant Administration (EM/SOC/SW) 3 s.h.

Students learn about the role of grants in agency funding and develop the basic skills needed to write a successful proposal to compete for funds from outside sources. Topics include: generating program ideas, researching funding sources; establishing and maintaining collaborative partnerships; proposal planning and development; and the establishing and analyzing program metrics, administration, reporting, and accounting for funds and program deliverables.

AGE 4760 Internship in Aging Studies 4 s.h.

Professionally supervised practical experience (225 clock hours) in organizations that provide services and opportunities to benefit older adults. Must be taken concurrently with AGE 4770, Professional Development Seminar.

AGE 4770 Professional Development Seminar 2 s.h.

Uses the internship experience to apply principles of professional values, ethics, communication, and relationships. Students learn concepts in conflict resolution, leadership, and capacity building. In addition, they apply job search strategies and activities. Must be taken concurrently with AGE 4760, Internship in Aging Studies.

AGE 4850 Gerontology Management 3 s.h.

Examination of gerontology management techniques. Focus on basic principles of management as they relate to senior living and human services.

AGE 4870 Nursing Home Administration I 3 s.h.

An overview of health, administrative, and leadership concerns in a nursing home. Topics include: Federal and State regulations in relation to public policy and leadership, pharmacology, infection control, nursing, quality assurance, insurances, and accounting and budgeting.

AGE 4880 Nursing Home Administration II 3 s.h.

An overview of health, administrative, and leadership concerns in a nursing home. Topics include: Federal and State regulations in relation to life safety code, social services and activity therapy, dietary services, physical plant, and occupational safety and health; normal aging; and the legal environment of a licensed nursing home.

AGE 4930 Population Health and Aging Internship I (POPH*) 3 s.h.**AGE 4940 Population Health and Aging Internship II (POPH*) 3 s.h.****AGE 4950 Population health and Aging Senior Seminar (POPH*) 2 s.h.****Military - Air Force (AF)**

Military courses are only for students enrolled in local-area Reserve Officer Training Corps (ROTC) programs.

AF 1010 Introduction to the Air Force I 1 s.h.

Introduces students to the U.S. Air Force, focusing on the critical issues, leadership skills, and competencies used by a commissioned officer.

AF 1020 Introduction to the Air Force II 1 s.h.

Introduces advanced understanding of critical issues, leadership skills, and competencies. Focus on historical and structural underpinnings of the organization.

AF 2010 Team and Leadership Fundamentals I 1 s.h.

Focuses on a journey to successful military leadership from cadet to officer candidate. Emphasizes preparation for putting concepts into practice.

AF 2020 Team and Leadership Fundamentals II 1 s.h.

Continued examination of the development of a successful leadership style, both as an individual and team member. Emphasizes preparation for putting concepts into practice.

AF 3010 Leading People and Effective Communication I 3 s.h.

Enhances communication and leadership skills through direct training exercises completed within a supervised environment. Direct feedback of performance is provided.

AF 3020 Leading People and Effective Communication II 3 s.h.

Continuation of study of effective communication and leadership in a supervised environment. Direct feedback of performance is provided.

AF 4010 National Security Affairs/Preparation for Active Duty I 3 s.h.

Overview of the complex issues facing professional military officers. Understanding of role in the wider society.

AF 4020 National Security Affairs/Preparation for Active Duty II 3 s.h.

Analysis of, and practical exercises in, military law, leadership, and ethical command. Designed to transition the student/cadet to service in the Air Force or for government service.

Allied Health (AHL)**AHL 3450 Evidence-Based Practice 2 s.h.**

Students systematically locate, evaluate, and incorporate evidence-based information to assist clients/patients in making informed decisions. Includes examination of research methods and procedures for the health science professional.

AHL 3500 Navigating the U.S. Health Care System 3 s.h.

Examines current health care policies in the United States. Includes the analysis of how health care policy affects clients and health professionals. Critiques the structure, organization, and financing of the system and how to inform clients about options for care. Case studies provide an opportunity for application of what is learned in the classroom.

AHL 4070 Population Health Promotion 3 s.h.

Analyzes health promotion practice and policy across the lifespan in public health settings. Evidence supporting selected health promotion practices are synthesized. Various health promotion programs are designed and evaluated within the context of culture, systems, and community. Prerequisite: PSY 2450.

AHL 4080 Health Communication Strategies 3 s.h.

Provides an in-depth examination of culturally appropriate health communication theories and models. Utilization of health communication strategies with various audiences and settings is evaluated.

AHL 4800 Contemporary Issues in Health Care 1 s.h.

Examines major challenges shaping health and healthcare in the 21st century. Explores how social, economic, political, technological, and ethical forces influence health outcomes, health systems, and population well-being. Current issues such as health inequities, healthcare access and financing, public health emergencies, digital health, and global health trends will be analyzed. Emphasis is placed on critical thinking, informed citizenship, and the ability to interpret health issues as they affect individuals, communities, and society.

AHL 4950 Allied Health Capstone 3 s.h.

Provides an integrative, culminating experience in which students synthesize knowledge and skills acquired throughout the program and apply them to a real-world issue. Students engage in a supervised, applied capstone project focused on a current challenge relevant to health education, health communication, health marketing, health advocacy, or related professional fields. Through project development, implementation and reflection, students demonstrate professional competencies in problem analysis, strategic planning, and evidence-informed decision-making.

Animal Studies (ANS)

ANS 3020 Animal Law and Policies 3 s.h.

Survey of legal concepts and policies that are necessary to fully understand animals' place in human society. Establishes a framework to analyze how animals are impacted by law and policy. Use of these legal tools to better lives of animals is explored.

ANS 3030 Animals in Religion 3 s.h.

Exploration of the ways animals are conceptualized by various world religions. Western, Eastern, and indigenous beliefs are described and compared. Practical implications of different religious and spiritual views regarding animals, including those of the Franciscan tradition, are analyzed.

ANS 3040 Animal Ethics 3 s.h.

Survey of major schools of animal ethics. Their premises and practical implications to ethical dilemmas involving animals are analyzed, compared, and evaluated.

ANS 3050 Human-Animal Conflict 3 s.h.

Analysis of various examples of human-animal conflicts representative of a wide spectrum of inter-species competition for resources. The focus is on proposing sustainable solutions based on sound scientific and ethical premises, while taking into account cultural and economic factors.

ANS 4770 Animal-Assisted Therapy and the Human/Non-Human Animal Bond (SW) 3 s.h.

Exploration of the human/non-human animal bond, focused on knowledge and skills utilized in animal-assisted activity, animal-assisted intervention (AAI), and animal-assisted therapy (AAT) as therapeutic interventions. Theoretical frameworks, protocols, and practices of AAI/AAT are reviewed. Link between non-human animal abuse and other forms of violence such as domestic violence, child and elder abuse, are explored. Connections within ecological and empowerment contexts and the impact of therapy work on non-human animals are examined.

ANS 4930 Internship in Animal Studies 3 s.h.

Professionally-supervised internship at an animal-related institution including, but not limited to zoos, humane societies, wildlife conservation agencies, and animal protection organizations. Focus on gaining practical skills relevant to a student's professional career goals, while applying ethical principles regarding animal welfare and well-being. Prerequisites or corequisites: ANS 3020, ANS 3030, ANS 3040, ANS 3050, ANS 4770, BIO 2720, BIO 4300, HUM 3210.

Art (ART)

ART 1010 Drawing Foundations for Art and Design 3 s.h.

Introduction to drawing and two-dimensional design with a variety of media and approaches. Students explore observational and expressive drawing along with elements and principles of art and design. No prior experience needed.

ART 1030 Painting Foundations for Art and Design 3 s.h.

Introduction to painting with a variety of acrylic and watercolor media. Students explore observational and expressive painting techniques and learn color theory along with the elements and principles of art and design. No prior experience needed.

ART 1040 Ceramics Foundations for Art and Design 3 s.h.

Introduction to hand building clay vessels and sculptural forms using a variety of expressive methods. Students explore forming and glazing techniques along with art elements and design principles. No prior experience needed.

ART 1060 Printmaking Foundations for Art and Design 3 s.h.

Introduction to printmaking with relief printing, silkscreen and intaglio. Students explore creative expression with each printmaking process, along with the elements and principles of art and design. No prior experience needed.

ART 2010 Drawing II 3 s.h.

Drawing a variety of subjects, students continue to develop skills and personal approaches to creating expressive compositions while exploring tools and media. Includes introduction to drawing the human figure and alternative drawing methods. Prerequisite: ART 1010.

ART 2030 Painting II 3 s.h.

Introduction to using traditional materials, tools and methods of oil painting. Painting from a variety of subjects including the human figure, students continue to develop skills and personal approaches to creating expressive compositions. Prerequisite: ART 1030.

ART 2040 Ceramics II 3 s.h.

Forming clay using a variety of subjects, students continue to develop skills and personal approaches to creating expressive sculptural forms and vessels while exploring tools and media. Course includes expansion of hand building and glazing techniques and learning the basic of wheel throwing and kiln firing. Prerequisite: ART 1040.

ART 2060 Printmaking II 3 s.h.

Drawing from a variety of subjects, students continue to develop skills and personal approaches to creating expressive compositions with more complex relief printing techniques. Course emphasizes quality printing, experimentation, and relevant aesthetics. Prerequisite: ART 1060.

ART 3010 Drawing III- Advanced Studio 3 s.h.

Exploration of anatomy and drawing the human figure, with focus on proportion, gesture, and composition. Includes continued experimentation with drawing techniques and materials. Individualized goals to be determined with instructor at start of course. Prerequisite: ART 1010 and ART 2010.

ART 3030 Painting III- Advanced Studio 3 s.h.

Continue skill and concept development in water-based, oil or alternative painting media and methods. May include approaches to collage and mixed media. Course continues painting the human figure. Individualized goals to be determined with instructor at start of course. Prerequisites: ART 1030 and ART 2030.

ART 3040 Ceramics III- Advanced Studio 3 s.h.

Individualized instruction in advanced technical and aesthetic skills in using the potter's wheel and more sophisticated hand building techniques to create functional or sculptural objects. Kiln firing and glaze mixing skills are expanded. Creative goals are determined with instructor at the start of the course. Prerequisites: ART 1040 and ART 2040.

ART 3060 Printmaking III- Advanced Studio 3 s.h.

In-depth exploration of serigraphy (silkscreen) and techniques, with additional emphasis on quality printing, experimental and multi-screen printing, and aesthetics. Individualized goals to be determined with instructor at start of course. Prerequisites: ART 1060 and ART 2060.

ART 3130 Photography I (JRN*) 3 s.h.

ART 3140 Photography II (JRN*) 3 s.h.

ART 3840 Visual Effects and Compositing I (BCA*) 3 s.h.

ART 3850 Visual Effects and Compositing II (BCA*) 3 s.h.

ART 4010 Drawing IV- Advanced Studio 3 s.h.

Focused experimentation with materials, refinement of techniques and artistic problem solving are emphasized for developing a personal body of work. Independent drawing challenges and creative goals are determined with instructor at the start of the course. Prerequisites: ART 1010, ART 2010, and ART 3010.

ART 4030 Painting IV- Advanced Studio 3 s.h.

Experimentation with materials, refinement of techniques and artistic problem solving are emphasized for developing a personal body of work. Independent painting challenges and creative goals are determined with instructor at start of course. Prerequisite: ART 1030, ART 2030 and ART 3030.

ART 4040 Ceramics IV- Advanced Studio 3 s.h.

Experimentation with materials, refinement of techniques and artistic problem solving are emphasized for developing a personal body of work. Independent ceramic challenges and creative goals are determined with instructor at the start of the course. Prerequisites: ART 1040, ART 2040, and ART 3040.

ART 4060 Printmaking IV- Advanced Studio 3 s.h.

Experimentation with materials, refinement of techniques and artistic problem solving are emphasized for developing a personal body of work. New planographic techniques are presented. Independent printmaking challenges and creative goals are determined with instructor. Prerequisites: ART 1060, ART 2060, and ART 3060.

ART 4400 Independent Studio A 2-3 s.h. (max. 9 s.h.)

Independent guided work in an expanded art discipline, experimental media or new techniques. Artistic challenges and creative goals are determined with instructor. Permission of Art, Music, and Dance Department Chair and instructor required.

ART 4410 Independent Studio B 2-3 s.h. (max. 9 s.h.)

Independent guided work in an expanded art discipline, experimental media or new techniques. Artistic challenges and creative goals are determined with instructor. Permission

of Art, Music, and Dance Department Chair and instructor required.

ART 4960 Senior Seminar 3 s.h.

All Art Program majors complete their programs with Senior Seminar research, critical reflection, and planning for professional of a body of creative work, and require participation in producing the senior art exhibition.

Art Education (AED)

AED 3100 Visual Culture (AHIS) 3 s.h.

Course scans the increasingly visual phenomena that influence the lives of twenty-first century people. Analytic tools of semiotics are used to look beyond the surface of visual communications to underlying content and motivations.

AED 3160 Art Education in PK-Elementary Schools (EDU) 2 s.h.

Authentic Visual Arts experiences for children in Grades PK-8 with a focus on matching children's developmental levels with appropriate Art making experiences such as Process-Focused art. Students learn about beneficial ways for adults to talk to children about their artwork. Lesson planning activities incorporate research on the benefits of infusing the Visual Arts across PK-elementary teaching and learning scenarios.

AED 3170 Art Education in Elementary Schools Field Experience 1 s.h.

Field experience in Elementary Art classrooms. Corequisite: AED 3160. *For Art Education Major students only.*

AED 3800 Principles of Elementary Visual Arts Education 3 s.h.

Developmentally appropriate visual arts techniques, teaching strategies, lesson design and presentation, classroom observations, and the theories, history, and philosophy of visual arts education for the elementary age child. *Includes 15 hours of field placement.*

AED 3810 Principles of Secondary Visual Arts Education 3 s.h.

Visual arts techniques, teaching strategies, lesson design and portfolio presentation, classroom observation, and the theories, history, and philosophy of visual arts education for the secondary student. *Includes 15 hours of field placement.*

Art History (AHIS)

AHIS 2020 Monuments, Media, and Culture in World Art 3 s.h.

This introduction to the visual arts provides a strong foundation for understanding, and appreciation for human creativity across time and cultures. Students learn fundamental concepts about art, are exposed to a wide variety of artworks from around the world, and learn to observe how the visual arts reflect our respective cultures and impacts our daily lives. (Not for art majors.)

AHIS 3100 Visual Culture (AED*) 3 s.h.

AHIS 3240 Art History: Ancient to Renaissance 3 s.h.

Investigation of art making across cultures from over 250,000 years of prehistory through the time of the early Renaissance. Multicultural artistic innovations across the world are charted

chronologically. Using art history as a framework, human history is reflected back to us.

AHIS 3270 Art History: Renaissance to 20th Century 3 s.h.

Investigation of innovations in artwork across world cultures from the time of the Renaissance in Italy to art made across the globe in the early 20th century.

AHIS 3290 Dynamic Detroit Architecture 3 s.h.

Study of Detroit architecture in the context of the development of American society and contemporary politics. Class work is supported by required field trips to significant architectural sites.

AHIS 3350 Asian Art: India, China, Japan 3 s.h.

Focused study on the paintings, sculpture, buildings, and landscape architecture of India, China, and Japan. Artifacts and aesthetics are correlated with historic, social, and cultural forces. Emphasis is on investigation of continuing traditions and new stylistic content.

AHIS 4160 Art History: 20th Century to Contemporary 3 s.h.

Investigation of international art breakthroughs from the 20th century to the present day. Beginning with art movements that influenced the development of modernism and other "avant-garde" concepts, continuing through to contemporary expressions in the visual arts, emphasis is placed on understanding historical and cultural contexts.

AHIS 4260 History of Modern Design 3 s.h.

Investigation of the development and impact of modern design as it emerged through the Industrial Revolution of the 19th century and progressed through the 20th century modernism, post-modernism, and the design trends of the 21st century. Aesthetics of modern design are analyzed, as are the philosophies and theories of the designers creating these. Students look at the relationship of design to technology, the needs of society, the environment, and industry.

AHIS 4750 Studies in Art History 2-3 s.h. (max. 9 s.h.)

Course allows independent research on a focused area of Art History study. Study topic, readings, research and meeting times are determined in collaboration with the instructor. Prerequisites: AHIS 3240 and AHIS 3270.

Artificial Intelligence (AI)

AI 2010 Introduction to Generative Artificial Intelligence 3 s.h.

Provides a foundational understanding of generative Artificial Intelligence technologies, including transformers and large language models, and teaches practical skills for deploying and fine-tuning AI solutions across various industries. Prerequisites: CSC 2500 and CSC 2550.

AI 3010 Career Navigation and Exploration in Applied Artificial Intelligence 3 s.h.

Guides students through exploring Artificial Intelligence career pathways, understanding job markets, developing professional skills, and building effective strategies to secure fulfilling and lucrative AI jobs.

AI 3100 Artificial Intelligence Literacy for Everyone 3 s.h.

Non-technical Artificial Intelligence (AI) course that builds the foundational skills needed to use AI tools to solve business problems creatively and responsibly. The course is designed to be valuable to all business students by helping to distinguish problems that AI is useful for, master prompt engineering to improve outputs, detect AI-generated output, analyze ethics and privacy, and stay up-to-date on this transformative technology.

AI 3150 Artificial Intelligence for Decision-Making 3 s.h.

In this course, students will learn how to ask the right questions to increase productivity and innovation while using artificial intelligence. Topics include: creating better prompts, comparing and contrasting strengths and limitations, evaluating outcomes, and understanding and leveraging the power of AI for use in making business decisions. Prerequisite: AI 3100

AI 4010 Predictive Modeling in Artificial Intelligence 3 s.h.

Teaches students how to analyze, interpret, and forecast complex data using Artificial Intelligence tools, focusing on techniques like regression analysis and neural networks to build robust predictive models. Prerequisites: AI 2010, CSC 2500, CSC 2550, MTH 2350.

AI 4020 Prescriptive Artificial Intelligence 3 s.h.

Teaches advanced Artificial Intelligence techniques like optimization and reinforcement learning to build intelligent systems for better decision-making, focusing on practical applications in business, robotics, and more. Prerequisites: AI 2010, AI 4010, CSC 2500, CSC 2550, CSC 3610, MTH 2350

AI 4100 Artificial Intelligence for Creativity and Design 3 s.h.

This course discusses how professionals and companies are using Artificial Intelligence to improve productivity and creativity in their businesses. Generative AI has introduced a new paradigm of AI: the co-creator. Students will learn how to be co-creators through utilizing the iterative prompting, search, and functional evaluation metrics that are powering these uses. Students will learn how to integrate AI tools into a variety of creative skill sets, including their own projects. Prerequisite: AI 3100.

AI 4150 Artificial Intelligence Ethics 3 s.h.

This course discusses how professionals and companies are using Artificial Intelligence to improve productivity and creativity in their businesses. Generative AI has introduced a new paradigm of AI: the co-creator. Students will learn how to be co-creators through utilizing the iterative prompting, search, and functional evaluation metrics that are powering these uses. Students will learn how to integrate AI tools into a variety of creative skill sets, including their own projects. Prerequisite: AI 3100.

Autism Spectrum Disorder (ASD)

ASD 3400 Foundations of Autism Spectrum Disorder 4 s.h.

Analysis of Autism Spectrum Disorder etiology, conditions, characteristics, diagnosis, history, policy, and educational accountability. Theory, research, and practice of key learning characteristics and sensory integration patterns of students with

ASD in an education setting. Sociocultural issues that impact implementation of IDEA with an emphasis on collaboration with general educators, families, and related service providers to support the skill development and acquisition of independent living. Prerequisite: EDU 3300.

ASD 4010 Social, Behavioral, and Communication Development in Autism **4 s.h.**

Comprehensive examination of developmental characteristics of communication, behavior, and social traits prevalent to Autism Spectrum Disorder. Identification and evidence-based interventions, interdisciplinary assessments, and behavioral supports are explored. Identify the functions of communication and language, and their relationships to behavior and social skills. To promote the development of consistent sensory regulation, the development of expressive and receptive language skills, and the design of engaging and supportive environments are emphasized. Prerequisite: ASD 3400 and acceptance to the Teacher Education Program.

ASD 4020 Interdisciplinary Perspectives and Interventions in Autism **4 s.h.**

Comprehensive examination of the interdisciplinary perspectives and evidence-based interventions, which support Autism Spectrum Disorder. The behavioral, developmental, educational, and medical research relative to ASD is explored. Adaptation of curriculum is based on the coordination of assessment instruments with learning outcomes. Students learn to identify the ecological forces to adapt and maximize interventions, with a focus on collaboration with parents and service providers. Prerequisite: ASD 3400 and acceptance to the Teacher Education Program.

Biology (BIO)

BIO 1010.00 Introductory Biology **3 s.h.**

A course for non-science majors, presenting biological concepts influencing individual decisions affecting community structure and the state of the world. Lecture meets 3 hours per week. Co-requisite: BIO 1010.LB.

BIO 1010.LB Introductory Biology Lab **1 s.h.**

A laboratory course for non-science majors, introducing students to the scientific method and techniques frequently utilized in a laboratory setting. Lab will meet 3 hours per week. Co-requisite: BIO 1010.00.

BIO 1030.00 General Biology I **3 s.h.**

Fundamental biological principles and problems as they apply to molecular, cellular, and organismic levels of the biosphere. Lecture meets 3 hours per week. Prerequisite or corequisite: CHM 1110.00 and CHM 1110.LB or equivalent; one year each of high school biology and chemistry highly recommended. Corequisite: BIO 1030.LB.

BIO 1030.LB General Biology I Lab **1 s.h.**

Laboratory investigating fundamental biological principles and problems as they apply to molecular, cellular, and organismic levels of the biosphere. Prerequisite or corequisite: CHM 1110.00 and CHM 1110.LB or equivalent; one year each of high school biology and chemistry highly recommended. Lab will meet 3 hours per week. Corequisite: BIO 1030.00.

BIO 1040.00 General Biology II **3 s.h.**

Fundamental biological principles and problems as they apply to evolutionary theory, biosystematics, plant structure and function, animal behavior, and ecological concepts. Lecture meets 3 hours per week. Prerequisite: one year each of high school biology and chemistry highly recommended; BIO 1030.00 and BIO 1030.LB recommended but not required. Corequisite: BIO 1040.LB.

BIO 1040.LB General Biology II Lab **1 s.h.**

Laboratory course investigating fundamental biological principles and problems as they apply to evolutionary theory, biosystematics, plant structure and function, animal behavior, and ecological concepts. Prerequisite: one year each of high school biology and chemistry highly recommended; BIO 1030.00 and BIO 1030.LB recommended but not required. Lab will meet 3 hours per week. Corequisite: BIO 1040.00.

BIO 2100 Human Ecology **3 s.h.**

Study of the interrelationships and impact of humans on the environment. Addresses political, sociological and ecological consequences of human-environment interaction. Topics include habitat destruction, consequences of pollution, loss of biodiversity, conservation biology, and sustainability.

BIO 2110 Greenhouse Explorations (ENV*) **3 s.h.**

BIO 2250 Basic Human Physiology **3 s.h.**

Non-laboratory study of the functioning of the body systems considering the integration and control of life processes in the cells, tissues, organs, and systems of the human body. Not applicable to Biology major but may be applied to Biology minor.

BIO 2260.00 Microbiology **3 s.h.**

Fundamental principles of microbiology with emphasis on the biology of bacteria and other microbes (metabolism, genetics, growth, and death), their ecological relationships in natural and controlled environments, and the interactions of pathogenic microorganisms and their human and animal hosts. Lecture meets 3 hours per week. Prerequisites: CHM 1110.00 and CHM 1110.LB, or CHM 1610.00 and CHM 1610.LB; BIO 1030.00 and BIO 1030.LB, or BIO 2250, or BIO 2450.00 and BIO 2450.LB. Corequisite: BIO 2260.LB.

BIO 2260.LB Microbiology Lab **3 s.h.**

Laboratory course investigating the fundamental principles of microbiology through hands-on exploration of techniques such as smear and stain preparation, safe handling of microorganisms and care and maintenance of cultures. Lab will meet 3 hours per week. Prerequisites: CHM 1110.00 and CHM 1110.LB, or CHM 1610.00 and CHM 1610.LB; and BIO 1030.00 and BIO 1030.LB, or BIO 2250, or BIO 2450.00 and BIO 2450.LB. Corequisite: BIO 2260.00.

BIO 2270 Microbiology for Health Sciences **3 s.h.**

A non-laboratory study of the fundamentals of microbiology geared to preparation of nurses and other health care professionals. The role of microbes as causative agents of infectious disease, focusing on human and human disease processes, relative to humans and their diverse environments.

Application of scientific understandings to health care settings and to food preparation and spoilage. Prerequisites: biology and chemistry course work, both (a) BIO 1010.00 and BIO 1010.LB, or BIO 2250, or BIO 2450.00 and BIO 2450.LB, or BIO 2460.00 and BIO 2460.LB; and (b) CHM 1610.00 and CHM 1610.LB, or CHM 2210.00 and CHM 2210.LB.

BIO 2450.00 Human Anatomy and Physiology I 3 s.h.

Study of anatomical terminology, the cell, the sense organs, and the structure and function of the integumentary, skeletal, muscular, nervous, and endocrine systems. Lecture meets 3 hours per week. Prerequisite: one year each of high school biology and chemistry. Corequisite: BIO 2450.LB.

BIO 2450.LB Human Anatomy and Physiology I Lab 1 s.h.

Lab course studying the structure and function of the integumentary, skeletal, muscular, nervous, and endocrine systems. Lab will meet 3 hours per week. Corequisite: BIO 2450.00.

BIO 2460.00 Human Anatomy and Physiology II 3 s.h.

Study of circulation, respiration, digestion, excretion, reproduction and development, fluids and electrolytes, and acid-base balance. Lecture 3 hours. Prerequisites: BIO 2450.00, BIO 2450.LB. Corequisite: BIO 2460.LB.

BIO 2460.LB Human Anatomy and Physiology II Lab 3 s.h.

Lab course studying the structure and function of the circulatory, respiratory, lymphatic, digestive, urinary, and male and female reproductive systems. Laboratory 3 hours. Prerequisites: BIO 2450.00, BIO 2450.LB. Corequisite: BIO 2460.00.

BIO 2720 Zoology 3 s.h.

Survey of the animal kingdom. Topics include classification, physiology, reproduction, and habitats. Morphological, physiological and behavioral adaptations are analyzed.

BIO 3010.00 Genetics 3 s.h.

Principles of genetic theory that provide a working knowledge of the three divisions of genetics: transmission genetics, molecular genetics, and population genetics. Topics include cell division, principles of heredity, statistical analysis, microbial genetics, cancer genetics, genetics in metabolism, development and behavior, and genetic engineering. Lecture meets 3 hours per week. Prerequisites: BIO 1030.00 and BIO 1030.LB or BIO 2260.00 and BIO 2260.LB; MTH 2350. Corequisite: BIO 3010.LB.

BIO 3010.LB Genetics 1 s.h.

Lab course utilizing both classical and modern genetics experiments to give students hands-on exposure to scientific techniques and equipment. Lab will meet 3 hours per week. Prerequisites: BIO 1030.00 and BIO 1030.LB or BIO 2260.00 and BIO 2260.LB. Corequisite: BIO 3010.00.

BIO 3150 Human Genetics and Society 3 s.h.

The new genetics theory that provides a working knowledge of the three divisions of genetics: transmission genetics, molecular genetics, and population genetics. Students research topics of contemporary significance using tools of classical genetics such as the pedigree and the genetic code as well as RFLP markers, PCR technology, and cytogenetics based on DNA probes. (For non-science majors; does not apply to Biology major or minor.)

BIO 3170 Parasitology 4 s.h.

Study focuses upon the morphology, classification, and clinical diagnosis of major human parasites. Laboratory emphasizes the identification of parasitic adult and larval forms as observed in clinical specimens. Lecture 2 hours, laboratory 6 hours. Prerequisites: BIO 2260.00, BIO 2260.LB.

BIO 3220.00 General Ecology 3 s.h.

Study of the principles of ecological interdependence and interaction between plants and animals with each other and with their environment. Prerequisite: 6 s.h. in biology; MTH 2350. Corequisite: BIO 3220.LB.

BIO 3220.LB General Ecology Lab 1 s.h.

An overview of research methods used in field studies complements theoretical concepts in lecture. Lab/field work meets 3 hours per week. Corequisite: BIO 3220.00

BIO 3230 Geographic Information Systems (ENV*) 3 s.h.

BIO 3280.00 Clinical Immunology and Serology (MTE) 3 s.h.

A lecture course that introduces basic concepts and terminology of innate, humoral, and cellular immunity. Development and function of cellular response; basics of antigenicity. Students learn about immunity as it relates to transplantation, infectious disease, and autoimmune conditions. Lecture meets 3 hours per week. Prerequisites: BIO 2450.00, BIO 2450.LB; BIO 2460.00, BIO 2460.LB; CHM 2210.00, CHM 2210.LB; recommend BIO 3010.00, BIO 3010.LB, Corequisite: BIO 3280.LB.

BIO 3280.LB Clinical Immunology and Serology (MTE) Laboratory 1 s.h.

In laboratory practice, students become familiar with the purpose, principles, and performance of common methods of detection and measurements of the immune response, including techniques of ELISA, agglutination, and immuno-precipitation. Lab will meet 3 hours per week. Prerequisites: BIO 2450.00, BIO 2450.LB; BIO 2460.00, BIO 2460.LB; CHM 2210.00, CHM 2210.LB Corequisite: BIO 3280.00.

BIO 3450 Epidemiology 3 s.h.

The study of disease rates, distribution of disease, and prevention of diseases within human populations. General health promotion, experimental studies for both infectious and chronic disease and statistical methods in epidemiology will be examined. Prerequisites: BIO 1030.00 and BIO 1030.LB; MTH 2350 recommended.

BIO 3500 Medical Mycology and Virology 4 s.h.

Studies in the isolation and identification of medically important fungi and viruses with emphasis on the disease involved and on current diagnostic methods used in the laboratory. Laboratory sessions to consist of identification, specimen collection, and the processing of fungi and viruses. Lecture 2 hours, laboratory 6 hours. Prerequisites: BIO 2260.00, BIO 2260.LB.

BIO 3610.00 Biochemistry I (CHM*) 3 s.h.

BIO 3610.LB Biochemistry I Lab (CHM*) 1 s.h.

BIO 3620.00 Biochemistry II (CHM*) 3 s.h.

BIO 3620.LB Biochemistry II Lab (CHM*) 1 s.h.

BIO 3710 Pathophysiology 3 s.h.

Study of mechanisms of disease processes affecting hematologic, immune, cardiovascular, respiratory, neural, liver and biliary, gastrointestinal, and endocrine systems with associated manifestations, diagnosis, and treatment regimens. Prerequisites: BIO 2450.00, BIO 2450.LB, BIO 2460.00, BIO 2460.LB.

BIO 3720 Science and Racial Justice 3 s.h.

Explore the relationship between scientific inquiry and the effort to create a more equitable society by confronting racial injustice. Examine how the scientific community has been affected by and can respond to the marginalization of human persons by such factors as implicit bias and institutional racism.

BIO 3740 Cell Biology 3 s.h.

The study of structural details and the molecular functions of the different parts of the eukaryotic cell, with emphasis on endocytosis, intra-membrane transport, protein targeting, organelle biosynthesis, protein sorting, exocytosis, cell shape, motility, cell-to-cell interaction, signal transduction and cell cycling. Cellular functions that are required for cell growth and programmed cell death will be explored. Emphasis is placed on examination of experimental approaches taken to elucidate certain biology principles. Prerequisites: BIO 1030.00 and BIO 1030.LB; BIO 2260.00 and BIO 2260.LB; BIO 3010.00 and BIO 3010.LB.

BIO 3750 Special Topics in Biology 1-3 s.h. (max. 6 s.h.)

Workshops or seminars include topics related to biology, such as evolution, animal behavior, cell biology, biometry, or related issues. (May be repeated for credit, as topics vary.) Students may apply up to 3 s.h. of BIO 3750 toward Biology major requirements. Additional topics credits are optional.

BIO 4010 Population Genetics (FOR) 3 s.h.

Theory and application of population genetics with emphasis on mathematical and statistical methods for describing specific populations, genetic make-up and diversity. 3 hours of lecture per week. Prerequisites: BIO 3010.00, BIO 3010.LB, MTH 1210, and MTH 2350.

BIO 4020 Parasitology, Mycology, and Virology (MTE*) 3 s.h.

BIO 4270 Clinical Bacteriology 4 s.h.

Study of the qualitative and quantitative aspects of bacteriology in relation to diseases as found in humans. Methods of detection, isolation, and enumeration, toxin production, and techniques in the identification of pathogenic bacteria. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 2260.00 and BIO 2260.LB; BIO 3280.00 and BIO 3280.LB recommended.

BIO 4300 Animal Behavior 3 s.h.

In-depth study of why and how animals behave as they do. Examines the biological and psychological mechanisms that drive animal behavior. Topics include foraging, communication, predator/prey interactions, biological

rhythms, mating behavior, parental behavior, learning and memory, social behaviors and hormone and behavior interactions.

BIO 4410.00 Molecular Biology 2 s.h.

Introductory course in molecular biology, which includes a comprehensive overview of prokaryotic and eukaryotic genome structure and function examined through the lens of molecular biotechnology. Lecture meets 2 hours per week. Prerequisites: BIO 3010.00, BIO 3010.LB, CHM 3610.00, CHM 3610.LB. Corequisite: BIO 4410.LB.

BIO 4410.LB Molecular Biology Lab 1 s.h.

In the laboratory setting, students utilize and become familiar with practical application of molecular biology techniques. Lab meets 3 hours per week. Prerequisites: BIO 3010.00, BIO 3010.LB, CHM 3610.00, CHM 3610.LB. Corequisite: BIO 4410.00.

BIO 4500 Behavioral Neuroscience (PSY*) 4 s.h.

BIO 4520 Forensic Biology (FOR*) 3 s.h.

BIO 4520.LB Forensic Biology Lab (FOR*) 1 s.h.

BIO 4640 Toxicology (FOR*) 3 s.h.

BIO 4640.LB Toxicology Lab (FOR*) 1 s.h.

BIO 4700 Biological Investigation 1-4 s.h. (max. 4 s.h.)

Independent research, directed reading, or special problems under the supervision of a faculty member. Prerequisites: recommendation of major advisor and problem director.

BIO 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Broadcast and Cinema Arts (BCA)

BCA 1010 Survey of Broadcast, Film, and Digital Media (JRN) 3 s.h.

An overview of the telecommunication industry its technical and economic nature, and its consideration as both a product of social forces and as a social force itself.

BCA 1800 Final Cut Pro Level I Certification 2 s.h.

Basic editing functions and features within Final Cut Pro Level software. Students complete basic setup, customize preferences and settings, capture video and audio, mark and edit clips, mix sounds, add titles, create transitions, and apply filters. At the end of the course students take the Apple Final Cut Pro Level I certification test.

BCA 2020 Cinema Studies (COM) 3 s.h.

Introduction to the language, art, and culture of film including the study of classic and contemporary films and their aesthetic, cultural, and social significance.

BCA 2310 Modern Radio Techniques I 1 s.h.

Introduction to the concepts and techniques of radio production, including basic recording, mixing, and editing techniques. Students produce station promos, ID's, interviews, and documentaries, and perform live as DJs or announcers.

BCA 2320 Modern Radio Techniques II 1 s.h.
Advanced concepts and techniques of radio productions, including a focus on radio interviewing techniques and the art of sound editing. Students produce a short documentary, applying advanced techniques. Prerequisite: BCA 2310.

BCA 2610 Television Production I (COM/JRN) 3 s.h.
Basic studio production techniques, including set-up and operation of cameras, microphones, recorders, lights, and control room equipment. Emphasis on hands-on team approach. *Recommended for BCA majors during their first year.*

BCA 2810 Field Production and Editing I (JRN) 3 s.h.
Introduction to basic concepts and practices of single camera field production, including directing theory, camera technique, sound, lighting, and editing. Preferred prerequisite or corequisite: BCA 2610.

BCA 2850 Audio for Film, Broadcast, and Media 3 s.h.
Study and hands-on use of hardware and software for recording and manipulation of audio signals; creation of high-quality sound reproduction, and audio effects for film, television, and radio. Focus on field and studio recording and use of digital editing tools for music, voice, and sound effects.

BCA 3030 Writing for Radio, TV, and Film (JRN) 3 s.h.
Theory and practice of writing scripts for radio, television, and film. Introduction to the techniques of storytelling, storyboarding, production tracking, and budgeting. Prerequisite: BCA 2610.

BCA 3150 Photoshop (GDA*/JRN) 3 s.h.

BCA 3210 Motion Graphics (GDA*) 3 s.h.

BCA 3440 Talent and Performance for Television and Radio (COM) 3 s.h.
Instruction and practice in performing for radio and television (as reporter, host, spokesperson, etc.) including voice, poise, and on-camera technique. Prerequisite or corequisite: BCA 2610 or BCA 2810 or permission of program director or course instructor.

BCA 3510 On-Location Team Experience 1-3 s.h. (max. 6 s.h.)
Intensive participation in a film production; highly collaborative community service using production, teamwork, and leadership skills. Out-of-town venues, such as Hollywood, require the student to pay for travel and lodging. Recommended prerequisites: BCA 2610 and BCA 2810. *May be repeated for credit; a maximum of 3 s.h. may be applied within a BCA major or minor; additional credits may be earned as free electives.*

BCA 3610 Television Production II (COM/JRN) 3 s.h.
Advanced studio production techniques, with emphasis on technical directing, camera techniques, lighting methods, and integration of field-produced tapes. Prerequisite: BCA 2610.

BCA 3750 Television News Reporting and Production (JRN) 3 s.h.
The concepts and practices of field and remote video production in electronic news gathering with emphasis on broadcast standards and ethical decision-making. Prerequisites: BCA 2610 and BCA 2810.

BCA 3820 Field Production and Editing II (JRN) 3 s.h.
Advanced field production and editing, with emphasis on visual and oral storytelling, creative camera and lighting techniques, shot continuity, audio, graphics, and special effects. Includes an academic service-learning experience. Prerequisite: BCA 2810.

BCA 3830 Post Production 3 s.h.
Advanced post-production tools, techniques, and special effects used in video and film editing to create a message, tell a story, or elicit a feeling or emotion. Prerequisite: BCA 2810.

BCA 3840 Visual Effects and Compositing I (ART) 3 s.h.
Aspects of visual effects and compositing for film and video: students solve problems faced when dealing with visual integration, discover solutions to working with poorly shot scenes, rotoscoping, 2D tracking, color grading, as well as wire and rig removal. Prerequisites: BCA 2810 or GDA 1710.

BCA 3850 Visual Effects and Compositing II (ART) 3 s.h.
Advanced visual effects and compositing theory and techniques, including blue-screen compositing and 3D environments. Prerequisites: BCA 3840.

BCA 3910, 3920 Cooperative Education 1-4 s.h. (max. 4 s.h.)
Academically related work experience.

BCA 4010 Mass Communication (COM/JRN*) 3 s.h.

BCA 4630 Directing and Producing for Television (JRN) 3 s.h.
The theory and practice of producing and directing television programs. Students produce and/or direct a program that meets broadcast standards. Prerequisite: BCA 2810 and BCA 3610 and permission of instructor.

BCA 4810, 4820, 4830 Capstone in Film Production 2 s.h. ea.
Creating a film as part of a production team, using the knowledge, skills, techniques, and theories of industry. Emphasis on the creative process, the kinds of decisions that are made, and the strategies that are developed in the production of a film. The student's final product is submitted for external judging. This course runs three consecutive semesters with a grade given at the end of the final semester. Prerequisites: BCA 2610, BCA 2810, and permission of instructor. *No grade for BCA 4810 or BCA 4820 until the completion of BCA 4830.*

BCA 4910, 4920 Cooperative Education 1-4 s.h. (max. 4 s.h.)
Academically related work experience.

Business Administration (BUS)

BUS 1000 Explore Business 1 s.h.

This course will assist the student in the exploration of academic majors and careers related to business; including operations, marketing, accounting, finance, human resources, data analytics, and management information systems.

BUS 1010 Contemporary Society and the Organization 3 s.h.

The dynamics of contemporary administrative, social and political influences on the organizations; laws and regulatory agencies and their impact on the organization; career opportunities in the organization. *General elective only; does not apply toward Business majors.*

BUS 1100 Introduction to Sport Management (SM*) 3 s.h.

BUS 2020 Career Planning and Development 1 s.h.

Interactive course that develops the necessary skills that students need to achieve their career goals. Students will develop a networking strategy, interviewing skills, and resume and cover letter writing. Students will evaluate and negotiate a job offer, along with developing job search techniques, and how to ask for references and recommendations.

BUS 3010 Business Professionalism 3 s.h.

Interactive course that develops the necessary skills that students need to achieve their career goals and succeed in Business. Students will craft a comprehensive career toolkit, including tailored resumes, effective cover letters, and a strategic networking plan for acquiring professional endorsements. The course equips students with advanced job search strategies and the skills to evaluate and negotiate job offers. Furthermore, students will cultivate professional etiquette and an authentic business presence essential for professional success.

BUS 3260 Business and Professional Writing (WRT*) 3 s.h.

BUS 3520 Industrial/Organizational Psychology (PSY*) 3 s.h.

BUS 3900 Business Mentorship Program 1 s.h.

The Business Mentorship program was created with external and internal school of Business Advisory Board member input. Stakeholders agree that internships are incredibly valuable but equally important are mentorship relationships. All school of Business majors are encouraged to participate in the mentorship program in their junior/and or senior year. Mentees and mentors are vetted to ensure the appropriate pairings take place. This opportunity is open to all School of Business juniors and seniors in good academic standing (3.0 or above upon completion of 60 credit hours).

BUS 3950 Business and Society 3 s.h.

A conceptual course which studies the historic and sociological relationship between business and society, the development of economic and management thought, the social responsibility of business. Prerequisites: junior standing, MKT 2440, and MGT 2360.

BUS 3960 Business Ethics 3 s.h.

A conceptual course focused on the social and ethical issues, facing business. Approaches to processes that foster ethical decision-making in today's complex global business environment are examined. A variety of means, including case studies, are used to examine such topics as corporate social responsibility, global citizenship, ethical, corporate culture, working conditions, environmental impact issues, and codes of conduct. Prerequisites: MKT 2440 and MGT 2360; junior standing.

BUS 4740 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: junior level or full-time work experience. Students are limited to a total of 4 s.h. seminars.

BUS 4740 General Topic Seminar 1-3 s.h.

BUS 4910 Internship 3 s.h.

Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

BUS 4930 Internship 1-4 s.h.

Internships offer experiential learning activities designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment. The internship provides an opportunity to build professional networks and to explore career interests. Students must complete a minimum of 180 hours of professional work related to their major or concentration. **Prerequisites:** Students must complete nine semester hours within their major or concentration. And BUS 3010.

BUS 4950 Business Capstone 3 s.h.

Capstone course; students bring to bear all the experience of their study in aspects of accounting, business administration, finance, economics, international business, legal environment of business, quantitative systems, and management information systems through developmental exercises and practice. Three major components comprise the course: the strategic analysis of an organization; strategic decision making utilizing a simulation, and completion of the Comprehensive Business Exam. Senior standing; to be taken the last semester prior to graduation (fall or winter only).

Business Law (BL)

BL 3330 Business Law 3 s.h.

Study of the law and the legal process as it related to business and society. Emphasis on the law of contracts, sales under the U.C.C., negotiable instruments, secured transactions, and agency. Basic concepts of the law of crimes and torts, including product liability, are covered. Prerequisites: MGT 2360 and MKT 2440.

BL 3500 Employment Law 3 s.h.

Study of the law as it applies to organizational policies and practices relating to employment. Emphasis on the statutory, case, administrative sources of law which the business must understand. Prerequisites: BL 3300.

Chemistry (CHM)

CHM 1010.00 Introductory Principles of Chemistry 3 s.h.

A study of the basic principles of general chemistry and their applications including: systems of measurement; structure and properties of atoms; the periodic table; chemical symbols and their equations; stoichiometry; introduction to chemical bonding; solutions; acids, bases, and salts. Lecture will meet 3 hours per week. Prerequisite: one year of high school algebra or MTH 1040 with grade of C (2.0) or better. (May be used to satisfy the physical science general education requirement with laboratory and the chemistry prerequisite for CHM 1110.00 and CHM 1110.LB. *(Does not apply toward Chemistry major or minor.)* Co-requisite: CHM 1010.LB.

CHM 1010.LB Introductory Principles of Chemistry Lab 1 s.h.

Introduction to basic laboratory techniques. Titration, PH determination of household products, and exploration of chemical concepts through hands-on experience. Lab will meet for 3 hours per week. Co-requisite: CHM 1010.00

CHM 1110.00 General Chemistry I 3 s.h.

Principles of chemistry, including atomic structure and periodicity, chemical bonding, stoichiometry, gas laws, solution concepts, acid-base theory, redox processes, and equilibrium. Lecture 3 hours, laboratory 3 hours. Prerequisites: one year of high school chemistry or CHM 1010.00 and CHM 1010.LB with grade of C (2.0) or better; one year of high school algebra or MTH 1040 with grade of C (2.0) or better. Two years of high school algebra highly recommended, or MTH 1040 and 1050 with grades of C (2.0) or better. Co-requisite: CHM 1110.LB.

CHM 1110.LB General Chemistry I Lab 1 s.h.

Principles of chemistry, including atomic structure and periodicity, chemical bonding, stoichiometry, gas laws, solution concepts, acid-base theory, redox processes, and equilibrium. Lab will meet 3 hours per week. Prerequisites: one year of high school chemistry, or CHM 1010.00 and CHM 1010.LB with grade of C (2.0) or better; one year of high school algebra or MTH 1040 with grade of C (2.0) or better. Two years of high school algebra highly recommended, or MTH 1040 and 1050 with grades of C (2.0) or better. Co-requisite: CHM 1110.00.

CHM 1120.00 General Chemistry II 3 s.h.

Principles of thermodynamics/Thermochemistry, kinetics, equilibrium systems, Acid-Base Chemistry, Buffers, Solutions, electrochemistry, and nuclear chemistry. Lecture will meet 3 hours per week. Prerequisite: minimum grade of C in CHM 1110.00 and CHM 1110.LB or equivalent; prerequisite or co-requisite minimum grade of C (2.0) in MTH 1060 or MTH 1210 or equivalent. Co-requisite: CHM 1120.LB.

CHM 1120.LB General Chemistry II Lab 3 s.h.

Principles of thermodynamics, kinetics, equilibrium systems, proton transfer, electrochemistry, and nuclear chemistry. Laboratory projects related to each major subject area. Lab will meet 3 hours per week. Prerequisite: minimum grade of C (2.0) in CHM 1110.00 and CHM 1110.LB or equivalent; prerequisite or co-requisite minimum grade of C (2.0) in MTH 1060 or MTH 1210 or equivalent. Co-requisite: CHM 1120.00.

CHM 1610.00 Introduction to Life Chemistry 3 s.h.

Integrated organic and biochemical principles related to normal functioning of the human body. Lecture will meet 3 hours per week. Prerequisite: high school chemistry with graduation within the past two years, or CHM 1010.00 and CHM 1010.LB or CHM 1110.00 and CHM 1110.LB within the past two years, with a grade of C (2.0) or better, or chemistry placement test. *(Does not apply toward chemistry major or minor.)* Corequisite: CHM 1610.LB.

CHM 1610.LB Introduction to Life Chemistry Lab 1 s.h.

Integrated organic and biochemical principles related to normal functioning of the human body. Lab will meet 3 hours per week. Prerequisite: high school chemistry with graduation within the past two years, or CHM 1010.00 and CHM 1010.LB or CHM 1110.00 and CHM 1110.LB within the past two years, with a grade of C (2.0) or better, or chemistry placement test. *(Does not apply toward chemistry major or minor.)* Corequisite: CHM 1610.00.

CHM 2210.00 Organic Chemistry I 3 s.h.

Structure and classification of compounds of carbon, with stress on the aliphatics; IUPAC nomenclature; properties, characteristic reactions of the common functional groups, especially of the oxygen functions; concepts of stereochemistry; introduction to mechanisms; stress on Bronsted and Lewis acid/base processes. Lecture will meet 3 hours per week. Prerequisite: CHM 1110.00 and CHM 1110.LB or equivalent; CHM 1120.00, CHM 1120.LB highly recommended. Corequisite: CHM 2210.LB.

CHM 2210.LB Organic Chemistry I Lab 1 s.h.

Structure and classification of compounds of carbon, with stress on the aliphatics; IUPAC nomenclature; properties, characteristic reactions of the common functional groups, especially of the oxygen functions; concepts of stereochemistry; introduction to mechanisms; stress on Bronsted and Lewis acid/base processes. Laboratory exercises directed to demonstration of mechanistic processes. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHM 1110.00 and CHM 1110.LB or equivalent; CHM 1120, CHM 1120.LB highly recommended. Corequisite: CHM 2210.00.

CHM 2220.00 Organic Chemistry II 3 s.h.

More extensive study of reaction mechanism, aromatics, spectroscopy, and polymerization. Laboratory exercises directed to aromatic substitution reactions, chromatography, and systematic identification of organic functional groups. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00 and CHM 1110.LB and CHM 2210.00, CHM 2210.LB; CHM 1120.00, CHM 1120.LB highly recommended. Corequisite: CHM 2220.LB

CHM 2220.LB Organic Chemistry II Lab 1 s.h.

More extensive study of reaction mechanism, aromatics, spectroscopy, and polymerization. Laboratory exercises directed to aromatic substitution reactions, chromatography, and systematic identification of organic functional groups. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00 and CHM 1110.LB and CHM 2210.00 and CHM 2210.LB; CHM 1120.00, CHM 1120.LB highly recommended. Corequisite: CHM 2220.00.

CHM 3310.00 Quantitative Analysis 3 s.h.

Theory and technique of classical quantitative analysis, including acquisition and evaluation of analytical data from gravimetry, titrimetry, potentiometry, and spectrophotometry techniques. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00, CHM 1120.LB, and CHM 2210.00, CHM 2210.LB; MTH 1210 or equivalent. Corequisite: CHM 3310.LB

CHM 3310.LB Quantitative Analysis Lab 1 s.h.

Theory and technique of classical quantitative analysis, including acquisition and evaluation of analytical data from gravimetry, titrimetry, potentiometry, and spectrophotometry techniques. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00, CHM 1120.LB, and CHM 2210.00, CHM 2210.LB; MTH 1210 or equivalent. Corequisite: CHM 3310.00

CHM 3510 Advanced Inorganic Chemistry 4 s.h.

Descriptive chemistry of the representative elements, transition metal complexes and organometallic compounds; ligand field theory, molecular orbital and valence bonds theories, symmetry and group theory, nuclear chemistry. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00, CHM 1120.LB, MTH 1210 or equivalent.

CHM 3610.00 Biochemistry I (BIO) 3 s.h.

Principles of biochemistry; major metabolic and biosynthetic pathways; structure and conformation of biological molecules and their molecular biology. Laboratory exercises in enzyme kinetics, electrophoresis, chromatography, and DNA isolation and manipulation. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00, CHM 1110.00 LB; and, CHM 2210, CHM 2210.LB or CHM 1610 and CHM 1610.LB. Corequisite: CHM 3610.LB

CHM 3610.LB Biochemistry I (BIO) Lab 1 s.h.

Laboratory exercises in enzyme kinetics, electrophoresis, chromatography, and DNA isolation and manipulation. Lab will meet 3 hours per week. Co-requisite: CHM 3610.00.

CHM 3620.00 Biochemistry II (BIO) 3 s.h.

Advanced treatment of modern topics, including DNA structure and function; gene control; recombinant techniques; and newer techniques of protein design and engineering. Laboratory exercises in molecular cloning, transformation, DNA transfer techniques, immunoprecipitation, and mutagenesis studies. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 2210.00, CHM 2210.LB, and CHM 3610.00 and CHM 3610.LB. Corequisite: CHM 3620.LB

CHM 3620.LB Biochemistry II (BIO) Lab 1 s.h.

Laboratory exercises in molecular cloning, transformation, DNA transfer techniques, PCR and bioinformatics. Lab will meet 3 hours per week. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 2210.00, CHM 2210.LB, CHM 3610.00, CHM 3610.LB. Co-requisite: CHM 3620.00.

CHM 3640.00 Clinical Chemistry (MTE*) 2 s.h.**CHM 3640.LB Clinical Chemistry Lab (MTE*) 2 s.h.****CHM 4410.00 Physical Chemistry I 3 s.h.**

Kinetics, mechanisms, rate laws, properties of solids, liquids, and gases; kinetic theory of gases, phase rules, thermodynamics, equilibria, chemical activity, and electrochemistry; introduction to statistical mechanics. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB; MTH 2510, MTH 2520; PHY 2530.00 and PHY 2530.LB or PHY 2630.00 and PHY 2630.LB; PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB. Corequisite: CHM 4410.LB.

CHM 4410.LB Physical Chemistry I Lab 1 s.h.

Carry out experiments in calorimetry to determine the heats of reactions. Determine heat capacity ratio. Carry out experiments in Kinetics. Lab will meet 3 hours per week. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB; MTH 2510, 2520; PHY 2530.00, PHY 2530.LB, PHY 2540.00, PHY 2540.LB. Co-requisite: CHM 4410.00.

CHM 4420.00 Physical Chemistry II 3 s.h.

Atomic and molecular structure, quantum theory and mechanics, analytical spectroscopy, selection rules, photochemistry. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 4410.00 and CHM 4410.LB; MTH 2510, MTH 2520; PHY 2530.00 and PHY 2530.LB or PHY 2630.00 and PHY 2630.LB, PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB. Corequisite: CHM 4420.LB

CHM 4420.LB Physical Chemistry II Lab 1 s.h.

Experiments in Physical Chemistry. Application of the theory of Quantum Mechanics, Kinetics and Electrochemistry. Lab will meet 3 hours per week. Prerequisites: CHM 4410.00 and CHM 4410.LB; MTH 2510, MTH 2520; PHY 2530.00 and PHY 2530.LB or PHY 2630.00 and PHY 2630.LB, PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB. Co-requisite: CHM 4420.00.

CHM 4510.00 Instrumental Analysis 3 s.h.

Theory and techniques of modern instrumental analysis including UV, visible, and IR spectrophotometry; NMR, EPR, and mass spectroscopies; electrochemistry; chromatography including HPLC; and emerging technologies. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB; MTH 1210 or MTH 2510. Corequisite: CHM 4510.LB.

CHM 4510.LB Instrumental Analysis Lab 1 s.h.

Theory and techniques of modern instrumental analysis including UV, visible, and IR spectrophotometry; NMR, chromatography including HPLC; and emerging technologies. Lab will meet 3 hours per week. Prerequisites: CHM 1110.00, CHM 1110.LB, CHM 1120.00 and CHM 1120.LB, CHM 2210.00 and CHM 2210.LB; MTH 1210 or MTH 2510. Co-requisite: CHM 4510.00.

CHM 4540 Forensic Chemistry (FOR*) 3 s.h.**CHM 4540 Forensic Chemistry Lab (FOR*) 1 s.h.****CHM 4900 Problems in Chemistry 1-4 s.h. (max. 4 s.h.)**

Advanced study in a special area of interest in laboratory or library research studies. Prerequisite: recommendation of major advisor.

CHM 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by student with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Children and Families (CF)

See also *Early Childhood Education (ECE)*.

CF 2210 Professional Writing for Early Childhood Education 3 s.h.

Strategies that promote the development of professional writing skills for teachers in early education settings. Students learn how to write, review, and edit a variety of genres and formats used in the early childhood field such as journal articles, grant requests for proposals, family newsletters, and web content. Applying various strategies that incorporate technology and digital resources, students enhance their writing skills to produce a range of professional documents.

CF 2160 Child Development Birth through Eight 3 s.h.

Growth and development of the young child from birth through age eight, including both typical and atypical characteristics and needs of young children, with a particular focus on theory and current research in the field. Exploration of ways to create learning environments that are healthy, respectful, responsive, supportive, and challenging for young children. Introduction of the Universal Education Vision and Principles.

CF 3930 Preschool Practicum with Seminar 2 s.h.

Practicum of 120 clock hours in an early education center in either an infant, toddler, preschool, prekindergarten, or kindergarten classroom. Cumulative assumption of responsibilities in the early childhood classroom. Prerequisite: ECE 3100. Observe posted deadlines for submission of application forms.

CF 3940 Preschool Practicum with Seminar 3 s.h.

Practicum of 90-180 clock hours in a child care center with a seminar to support students in the experience. Cumulative assumption of responsibilities in the early childhood classroom. Prerequisite: ECE 3100. Observe posted deadlines for submission of application forms.

CF 4220 Professionalism and Advocacy in Early Childhood 3 s.h.

In-depth exploration of professional opportunities in the early childhood field, current trends and issues regarding education and public policy, and approaches to mentoring and coaching others in education. Through awareness of opportunities for leadership, students explore career paths in the field of early childhood education. Students investigate avenues for growth and advocacy incorporating strategies for leading others, gathering resources, and meeting the needs of every child in education settings. Pre- or corequisite: CF 4500.

CF 4500 Issues Challenging Children and Families (FCS) 3 s.h.

A survey of issues that present challenges to children and families. Students learn how current societal factors present stress to the family as it seeks to nurture the emotional/social and cognitive development of children. Assessment of community resources available for families.

CF 4920 Directed Teaching Seminar: Children and Families 1 s.h.

The forum to reflect upon and discuss the student's practicum/directed teaching experiences. Introduction to action research as a tool for self-reflection and continued professional development.

CF 4930 Directed Teaching: Children and Families 4 s.h.

For Children and Families majors who complete the entire major at Madonna University. Supervised teaching in a PK setting. Prerequisites: CF 3930 and advisor approval. Observe posted deadlines for submission of application forms.

CF 4950 Senior Seminar 2 s.h.

In-depth consideration of issues in a related field; integration and verification of exit-level competencies.

Communication Studies (COM)**COM 1050 Communication Concepts and Contexts 3 s.h.**

Principles of communication applied to interpersonal, group, and public speaking situations. Emphasis on verbal and nonverbal communication, listening, persuasive techniques, delivery, and responding to messages. Opportunity to practice speaking skills.

COM 2020 Cinema Studies (BCA*) 3 s.h.**COM 2120 Interpersonal Communication 3 s.h.**

Analysis of communication skills vital to personal and professional success. Examines the role of communication in interpersonal relationships from their inception through termination. Specific areas of focus include: listening, non-verbal behavior, empathy, assertiveness, relationship development, and conflict resolution skills.

COM 2140 Argumentation and Persuasion 3 s.h.

The study of argument as a process of inquiry and advocacy and the communicative means to change attitudes, beliefs, behaviors, as well as motivate people to action. Practical experience in: evidence, analysis, and reasoning; organization and case building; refutation and cross-examination; and audience analysis. Students apply theory to a variety of topics and contexts.

COM 2330 Interviewing Techniques 3 s.h.

Addresses theoretical principles and communication skills essential for professional careers. Includes informative, persuasive, journalistic, health, and employment interviews.

COM 2350 Public Speaking: Theory and Practice 3 s.h.

Focus on the building of public speaking skills needed in education, personal life, and careers in order to effectively communicate thoughts and feelings. Students evaluate the communication efforts of others and increase their critical listening skills.

COM 2550 Oral Interpretation of Literature (ENG) 3 s.h.

The skills of expressive reading to elicit listener response to the text, using vocal and physical expression, Prose, poetry, and drama analyzed for meaning and mood.

COM 2610 Television Production I (BCA*/JRN) 3 s.h.

COM 3030 Children's Literature and Drama (ENG*) 3 s.h.

COM 3100 Small Group Communication 3 s.h.

An analysis of communication interaction in small groups. Address group formation, decision making strategies, roles and norms, leadership, and conflict management. Students participate in classroom groups and evaluate group performance.

COM 3410, 3420 Acting Techniques I, II 4, 4 s.h.

Basic forms and methods of expression, including voice projection and diction; development of individual talents in pantomime, improvisation, acting, and oral interpretation. Lecture and laboratory.

COM 3440 Talent and Performance for Television and Radio (BCA*) 3 s.h.

COM 3520 Organizational Communication 3 s.h.

An introduction to the major theories of communication interaction in and between organizations. Specific topic areas include: communication networks, leadership, communication ethics, communication climate, organizational persuasion, organizational culture, communication and change, and conducting the communication audit.

COM 3610 Television Production II (BCA*/JRN) 3 s.h.

COM 4000 Rhetorical Theory and Criticism (WRT*) 4 s.h.

COM 4010 Mass Communication (BCA/JRN*) 3 s.h.

COM 4750 Topics in Communication 3 s.h. (max. 6 s.h.)

A specialized course addressing a particular area of communication. May be repeated for credit with a new topic.

COM 4910 Cooperative Education in Communication 3 s.h.

On-campus or on-the-job experience in communication (paid). Prerequisite: departmental approval.

COM 4930 Communication Practicum 3 s.h.

On-campus or on-the-job experience in communication (unpaid). Prerequisite: departmental approval.

COM 4950 Senior Seminar: Applied Communication Theory 3 s.h.

A capstone course for seniors. Analysis of several preeminent theories of human communication, with application to students' major areas of specialization within the field. Prerequisites: senior standing and COM 1050, COM 2120, COM 2140, COM 2350, COM 3100, COM 4010.

Computer Information Systems (CIS)

For related course work on a professional level, see listing under Management Information Systems (MIS).

CIS 2380 Introduction to Computers 3 s.h.

Study of the evolution of computers and the operating functions of the hardware, systems software, application software, data communications, and ethics of data storage and retrieval; exploration of the integration and application of information and processing in the business environment and in the global society; hands-on experience with word processing, electronic spreadsheets, graphics, database management, and electronic mail.

Computer Science (CSC)

CSC 1010 Explore Computer Science 1 s.h.

This course introduces students to the exciting field of computer science and the potential careers and opportunities currently available to computer science graduates. Students will have the opportunity to hear from guest speakers from a variety of computer industries who will discuss the current trends in computing and technology. Hands-on projects will provide students with an introduction to the computing and programming profession. Students will also learn the importance of professional and ethical computing and the impact of computing on society.

CSC 2020 Web Design and Development 3 s.h.

A comprehensive introduction to web design using the newest versions of HTML and CSS, web-based applications, social networking, web searching, and commercial web authoring software. This project-based course will culminate in students creating a professional commercially-ready website.

CSC 2080 Computer Science 3 s.h.

An introductory course in the field of computer science. Topics include fundamentals of computation and algorithmic problem solving, data types, procedures, control structures, arrays, and applications. *Recommended as the first computer science course taken by students in mathematics and science, as well as by those wishing to concentrate in computer science.*

CSC 2570 Google Cloud Computing Foundations 3 s.h.

Introduction to the fundamentals of Cloud Computing, Infrastructure and Networking, and an exploration of how the cloud is used in a range of situations, including IT, App Development and Machine Learning. Google Cloud Platform (GCP) is used. Prerequisites: CSC 2500, CSC 2550.

CSC 2350 Web Programming 3 s.h.

Students learn how to write server-side scripting programs using programming languages such as PHP and Perl. Using these languages, students will create dynamic web pages and write scripts to process HTML forms. Prerequisite: CSC 2080.

CSC 2450 Introduction to Mobile Applications Programming 3 s.h.

Introductory concepts of mobile device programming, with emphasis on developing applications for mobile devices that run on the Android platform. Creation of both standalone programs and program suites for mobile marketplace commerce systems where applications can be deployed. Prerequisite: CSC 2080 or consent of department.

CSC 2480 Computer Science II 3 s.h.

A continuation of Computer Science I. Emphasis placed on object-oriented programming, covering topics such as classes, objects, instances, inheritance, etc. Other topics include abstract data types, pointers, recursion, searching, and sorting. Prerequisite: CSC 2080.

CSC 2500 Programming for Everyone I 3 s.h.

This course, built in collaboration with Google, provides a gentle, but thorough, introduction to programming using python. Students will learn the core concepts and techniques needed to create programs and perform basic data analysis. By the end of this course, students will be ready to pursue further study in computer science and unlock more advanced programming courses.

CSC 2550 Programming for Everyone II 3 s.h.

This course continues on from Programming for Everyone I. In the first half of the course, students will learn how to use their Python skills to treat the Internet as a source of data. The second half of the course will teach students the fundamentals of structured Query Language (SQL) and database design. By the end of the course, students will have improved their programming skills and learn how to build a range of applications.

CSC 2700 Web Development 3 s.h.

This course, built in collaboration with Google, covers everything students need to know in order to build a website from scratch. Students will learn HTML, CSS and JavaScript – the core technologies which power modern websites – and build a website of their own. By the end of the course students will be able to create interactive, aesthetically pleasing websites for any purpose one can imagine.

CSC 3020 Modern Technologies 3 s.h.

Focuses on the major components of a computer operating system and the general operation of these components. Course concepts include: memory management, processor management, processes, communication and synchronization, shared resources, resource allocation, device management, file management, and security issues. Prerequisite: CSC 2080.

CSC 3030 Operating Systems 3 s.h.

Exploration of contemporary software development tools and practices essential for transitioning from programmer to software engineer. Topics include Docker, Jira, cloud computing, and GitHub, focusing on their applications in building scalable, secure, and user-centered products. Emphasis on understanding the industry impact of these technologies and applying them to real-world projects. Prerequisite: CSC 2500.

CSC 3050 Computer Architecture 3 s.h.

Study of: digital logic circuits and their components, numeric and character data representation within computer memory, instruction formats and addressing modes, register transfer and micro-operations, micro-programmed control, the differences between CISC and RISC architectures, and pipelined and vector processing. Prerequisite: CSC 2080.

CSC 3210 Application Development I – Backend 3 s.h.

Acquire the skills to build dynamic, database-driven web applications using backend technologies like NodeJS, focusing on API creation, middleware development, secure access control, and full-stack integration. Prerequisites: CSC 2500, CSC 2700.

CSC 3280 Analysis of Algorithms 3 s.h.

The study of data structures and their relationship to algorithms. Concepts include: algorithm and data abstraction, analysis of both iterative and recursive algorithms to determine time and space complexity, and various sorting, graph, and hashing algorithms. Students design programs to study algorithms and their application utilizing various data structures such as lists, queues, stacks, and trees. Prerequisite: CSC 2480.

CSC 3290 Programming Language Concepts 3 s.h.

Focuses on the study of programming languages. Topics include the history of programming languages, virtual machines, the representation of data types, sequence and data control, type checking, memory management, programming language semantics, and parsing. Various current and historical programming languages are compared, including C++, Fortran, Pascal, Ada, Java, JavaScript, Python, Perl, PHP, and Lisp. Prerequisite: CSC 2080.

CSC 3300 Application Development II – Frontend 3 s.h.

Introduction to advanced front-end development. Build sleek, responsive web applications using frameworks like React and Angular, with a focus on state management, API integration, authentication, and cloud deployment. Prerequisite: CSC 3210.

CSC 3310 Software Development 3 s.h.

Comprehensive study of the software development lifecycle (SDLC) from concept to implementation. Emphasis on version control using Git, quality assurance through testing, and deployment using continuous integration and continuous delivery (CI/CD) pipelines. Exploration of design patterns and best practices for effective software design and development. Prepares students to manage and execute software projects with confidence. Prerequisites: CSC 2500, CSC 2700, CSC 3210, and CYS 2110.

CSC 3330 Software Engineering 3 s.h.

Overview of software engineering as a discipline. Topics include: software life cycle models, project management, requirements gathering and documentation, user interface design, system design and modeling, and software testing. Prerequisite: CSC 2080.

CSC 3350 Object-Oriented Programming 3 s.h.

Focuses on developing programming applications using object-oriented programming languages such as C++ and Java. Basic programming concepts studied include: control structures, arrays, methods, strings, and objects. Advanced topics such as graphics, user interface components, exception handling, multithreading, multimedia, and streaming applications are also covered. Prerequisite: CSC 2480.

CSC 3480 Introduction to C 3 s.h.

To become a successful developer, students need to understand how computers interpret code. This course, will introduce students to C- the fundamental language used to write many high-level languages, including Python. By the end of the course, students will have a better understanding of how computers turn code into ones and zeroes, and will be able to use that understanding to build more efficient programs.

CSC 3490 Artificial Intelligence 3 s.h.

Introduction to a wide range of issues and methods in artificial intelligence. Topics covered include: reasoning and problem solving, heuristic search, game playing, knowledge representation, natural language processing, logic, and expert systems. Students are also introduced to the LISP programming language. Prerequisite: CSC 3290.

CSC 3510 Algorithms 3 s.h.

This course explores algorithms from a coding-focused perspective, using python. Students will learn about the issues that arise in the design of algorithms for solving computational problems and will explore a number of standard algorithm design paradigms and their applicability. Students will also become familiar with concepts of runtime, recursion, implementation and evaluation. This course features a heavy emphasis on practical application of algorithms to common development and engineering challenges.

CSC 3550 Mobile Game Programming 3 s.h.

Creating games for mobile platforms using a systematic approach, focused on games that run on the Android platform. Weaving in audio and video and consideration of factors such as user inputs involved in playing a game. Prerequisite: CSC 2450 or consent of department.

CSC 3610 Data Structures 3 s.h.

This course will teach students how to understand and use data structures. Data structures are used by almost every program and application to store, access and modify the vast quantities of data that are needed by modern software. By the end of this course students will learn what data structures are and learn how to use them in the applications you build.

CSC 3910 Cooperative Education in Software 1-3 s.h. (max. 3 s.h.)

Cooperative education experience with emphasis on computer programming or software engineering. Non-lecture, interactive course designed to enable students to gain valuable on-the-job work experience. Prior to registration, student must obtain signature of advisor. Prerequisite: consent of advisor. May be repeated for credit.

CSC 4120 Product Development 3 s.h.

Creating software products is more than just writing code, it also requires an analysis of what your customers want, and how to meet their needs. As a result, understanding product development is key to a successful career in technology. By the end of this course students will understand how product teams and processes work, and learn how to develop an idea into an actual product that delights their users.

CSC 4130 Language Theory 3 s.h.

A study of regular languages, grammars and expressions, finite-state automata and their relationship to regular languages, context-free languages and grammars, and language recognition with stack machines and parsers. Course includes introduction to properties of formal languages. computability, undecidability, and computational complexity. Prerequisite: CSC 3290.

CSC 4140 Computer Systems 3 s.h.

Introduction to the foundational principles of computer architecture and system operations through the C programming language. Topics include operating systems, memory management, file systems, and microprocessor functionality. Emphasis on understanding how instructions are executed, peripheral devices interact with systems, and performance optimization techniques. Prerequisite: CSC 2500.

CSC 4850 Seminar: Computers and Society 2 s.h.

A research and seminar course. Students are expected to do research, form opinions, and express and defend those opinions in classroom discussions on the various topics covered by the course. Topics include the study of the positive and negative impacts of computers in society related to areas such as the Internet, automation, robotics, artificial intelligence, computer crime, computer ethics, and computer professionalism. Prerequisites: Senior status and major in Computer Science.

CSC 4960 Capstone Project 3 s.h.

This course is intended as a culmination of all of a student's work in their Computer Science major. Students will work in groups to launch a web app prototype that meets the following requirements 1) Uses Databases concepts from the Computer Science Core, Data Structures, and Algorithms. 2) Meets faculty approval. Students will pitch their product, select the necessary technologies, work in groups to build an application, and create a webpage from which the application can be assessed. Students will be evaluated based on whether their product meets the goals they initially established, and on their internal project management processes.

Criminal Justice (CJ)

CJ 1020 Introduction to Criminal Justice 3 s.h.

An overview of the criminal justice system in the United States. The history of law enforcement; the political, sociological, and philosophic background of police functions, the courts and corrections system; constitutional problems as they relate to the police function; and the use of recent technology in criminal justice is explored.

CJ 1110 Spanish for Criminal Justice (SPA*) 3 s.h.

CJ 1210 Introduction to Corrections 3 s.h.

An overview of the post-correctional process as a function of the criminal justice system in contemporary society; the development of correctional philosophy, theory, history and practice; a description of institutional operation, programming and management; special populations; the effects of institutionalization upon individuals; alternatives to

incarceration; survey of career opportunities. Prerequisite: CJ 1020.

CJ 1240 Introduction to Private Investigation 3 s.h.
An overview of the private investigation industry, including but not limited to employment opportunities, history/evolution, methods and management of private investigations, sources of information, investigative technology, and ethical and public policy considerations related to private investigations.

CJ 1250 Introduction to Private Security 3 s.h.
An introduction to the historical, philosophical, and legal framework for security operations. An overview of the private security industry and analyzes specific processes and programs utilized in providing security. The role of private security in work place violence prevention and theft protection in retail establishments.

CJ 1550 Police Process and Community Relations 3 s.h.
An overview of the police function and responsibility at the local, state and federal level. Examination of the philosophy, history, character, structure, function, and complexity and limitations imposed on law enforcement in a democratic society. Police operations examined relative to effectiveness in crime control, delivery of service, and order maintenance. Prerequisite: CJ 1020.

CJ 2010 Criminal Justice Organization and Administration 3 s.h.
Organization and management of the various criminal justice agencies through the United States. Includes systems of management, substance abuse as a management problem, and systems analyses and their relationships.

CJ 2350 American Judicial Process (PSC) 3 s.h.
Analysis of the American state and federal court systems; history, traditions, and philosophy underlying the American system of justice; legal systems and law; court structures and roles; judges, prosecutors, attorneys, litigants; and the adjudication process: arrest to arraignment, trials, juries, and sentencing.

CJ 2910 Practicum/Cooperative Education in Criminal Justice 3 s.h.
Internship in an approved criminal justice setting designed to provide opportunities to synthesize theory with practice. Laboratory 32 hours for each semester hour, available for cooperative education.

CJ 3010 Basic Criminal Justice Training 3 s.h.
Credit awarded to those who have successfully completed an approved Michigan regional police or correctional academy, federal law enforcement academy, or equivalent CJ instruction.

CJ 3020 Field Experience 3 s.h.
Credit awarded by the chairperson for one year full-time experience in an appropriate area of the criminal justice system.

CJ 3040 Criminal Law and Procedure (FOR) 3 s.h.

This course examines the elements of criminal law, its purposes and its legal function. The course will focus on case law that relates to the laws of arrest, search and seizure, the rights and duties of officers and its citizens. Students will study the elements necessary to establish crime and criminal intent, sources of criminal law, criminal investigation procedures, criminal responsibility and general court procedures.

CJ 3210 Principles of Criminology (FOR/SOC) 3 s.h.
Study of the incidence, type, causes, and theories of adult deviant behavior. Emphasis is placed upon current crime trends and statistics and the processes involved in dealing with crime.

CJ 3230 Juvenile Justice (SOC) 3 s.h.
Theories of causation and prevention of delinquency; role of the courts, policy prevention programs, institutions in the control, and prevention of juvenile delinquency.

CJ 3500 Homeland Security and Terrorism (EM) 3 s.h.
Examination of the nature of the threat to the United States and how America is responding to the danger of terrorism, international and domestic. The policies, principles, strategies, organizations, and programs that are responsible for protecting the homeland. The efforts of the federal government, state, and local governments, as well as business and private citizens, are explored. Prerequisite: CJ 1020.

CJ 3550 Parole and Probation 3 s.h.
Examination of the history and philosophy of probation, aftercare, parole, and other community-based programs for juvenile and adult clients; function and operation of parole authorities; statutory authorization; case law; current practices and trends. Prerequisites: CJ 1020 and CJ 1210.

CJ 3820 Forensic Psychology (PSY*) 3 s.h.

CJ 3910 Practicum/Cooperative Education in Criminal Justice 3 s.h.
Internship in an approved criminal justice setting designed to provide opportunities to synthesize theory with practice. Laboratory 32 hours for each semester hour, available for cooperative education.

CJ 4050 Constitutional Law (PSC) 3 s.h.
Introduction to constitutional law, political theory. Historical examination of the major Supreme Court decisions which have contributed to contemporary judicial interpretations of the Constitution.

CJ 4110 Ethics in Criminal Justice 3 s.h.
An examination of the multitude of ethical dilemmas encountered in the criminal justice system. Ethical issues inherent in a variety of practical situations identified and discussed. Focus on problem solving strategies, interpersonal skills, and professional considerations relevant to criminal justice practitioners. Course discussions and group work provide a foundation for ethical decision-making related to policing, the courts, corrections, interpersonal relations, and diversity.

CJ 4120 Organized Crime and Gangs in America 3 s.h.

An exploration of the history, scope, and methods of controlling organized crime and street gangs in America with emphasis on local, regional, and statewide crime control efforts. The social implications of both organized crime and gangs. Research and discussion of federal and state laws aimed at curbing this type of crime.

CJ 4140 Drugs, Crime and the Justice System 3 s.h.

Study of issues and problems relating to drug and alcohol abuse, impact of substance use in individual health and societal progress, identification and classification of abused drugs, problems faced by law enforcement efforts to control.

CJ 4150 Criminal Investigation (FOR) 3 s.h.

Integration of principles and procedures of criminal investigation; conduct at a crime scene; search, collection, and preservation of evidence; interviewing; methods used in crime laboratories; and planning for effective courtroom participation. Prerequisite: CJ 1020.

CJ 4230 Homicide Investigation 3 s.h.

Study of many facets which comprise a thorough, sound, and reliable homicide investigation; inquiry into new investigative techniques as well as a review of State laws concerning homicide. Consideration of case preparation, warrant writing, arrest, arraignment, and preliminary examinations.

CJ 4450 Interviewing and Investigative Report Writing 3 s.h.

The art of interviewing and interrogation and the comprehensive skills necessary for the integration and documentation of information that is obtained from a wide variety of sources. Prerequisite: CJ 1020.

CJ 4750 Special Topics in Criminal Justice 1-3 s.h. (max. 4 s.h.)

A specialized course dealing, each time it is scheduled, with some particular aspect of criminal justice not usually included in other criminal justice course offerings. Examination of contemporary issues, problems, present status, future development, and the criminal justice response to a specific problem.

CJ 4910 Practicum/Cooperative Education in Criminal Justice 3 s.h.

Internship in an approved criminal justice setting designed to provide opportunities to synthesize theory with practice. Laboratory 32 hours for each semester hour, available for cooperative education.

CJ 4950 Criminal Justice Seminar 3 s.h.

Capstone course providing a critical analysis of contemporary criminal justice practices and procedures, current issues, trends, new programs, and court decisions affecting the criminal justice system. Topics such as multiculturalism, ethics, corruption, crime, civil/criminal liability, victimology, and public policy are considered. Prerequisite: senior standing and department approval.

Cybersecurity (CYS)

CYS 2100 Introduction to Cybersecurity 3 s.h.

This course teaches students how malicious actors use social skills and technology to facilitate cyber-attacks and analyzes the tools and information needed to thwart those attacks. It is

offered to students wanting to pursue one of the many available jobs in cybersecurity or those who simply wish to learn how to make the internet safer and secure their own privacy. Optional synchronous sessions are offered.

CYS 2110 Career Navigation and Exploration in Cybersecurity 3 s.h.

Exploration of career paths in Cybersecurity, potential salary outcomes, and different roles. Identification of jobs and opportunities that are a good fit, and development of a plan of action toward securing a job. Prerequisite: CYS 2100.

CYS 3020 Cybercrime and Governance 3 s.h.

Cybercrime is one of the greatest threats companies face and they are constantly looking for new hires to help them. In this course, students get a firsthand look at methods of committing cybercrime and how governments detect, investigate, and implement laws and policies to deter and prevent them.

CYS 3500 Modern Cybersecurity 3 s.h.

Technology is constantly evolving, and cybersecurity must keep pace with changing trends. In this class, students will learn about the changing landscape of cybersecurity, new forms of cyber-attack, and emerging technologies that are likely to be targeted. By the end of the course, students will be able to implement the most up-to-date practices in cybersecurity that protect against various kinds of attacks.

CYS 4100 Network and System Security 3 s.h.

Exploration of how to secure digital assets in organizations by identifying and addressing potential network and security system vulnerabilities.

CYS 4110 Ethical Hacking 3 s.h.

Development of hands-on techniques for attacking and penetrating networks and systems. Exploration of the tools used to launch these offensive tactics, and completion of a hands-on project ethically hacking a real system. Prerequisite: CYS 4100.

CYS 4500 Cyber Forensics 3 s.h.

Examination of the tools and techniques used to conduct investigations into cybercrimes and the defensive skills necessary to ensure a breach doesn't occur in the first place. Prerequisites: CYS 2100, CYS 4100.

CYS 4950 Cybersecurity Senior Capstone 3 s.h.

Allows the application of knowledge to real-world challenges. Includes a comprehensive project integrating various aspects of cybersecurity, including log analysis, vulnerability assessment, incident response, ethical hacking, and cloud security which will develop critical thinking skills and prepare students for major cybersecurity certifications. Prerequisites: CYS 3020, CYS 3500, CYS 4110, CYS 4500 and Senior Standing.

Early Childhood Education (ECE)

ECE 2250 Infant and Toddler Best Practices 3 s.h.

Understanding typical and atypical development of infants and toddlers in order to create developmentally appropriate learning environments meeting Michigan Standards of Quality for Infant and Toddler Programs. Creating respectful, responsive, supportive, and challenging learning experiences and activities for all infants and toddlers. Strategies for partnering with families to support infant and toddler development.

ECE 2320 Social Emotional Development in Young Children 3 s.h.

Study of the complex development of children's executive function skills and self-regulation in relation to classroom management and social emotional development in early childhood. Application of strategies for establishing positive behaviors and promoting conflict resolution, together with developmentally appropriate strategies to decrease challenging behaviors. Students comprehend the impact of prolonged toxic stress and adverse childhood experiences. The framework presented in this course enables students to establish a sense of community in early childhood classrooms and coordinate their approach to provide families with at-home strategies to strengthen early social emotional development. Prerequisite: CF 2160.

ECE 2650 Play-Based Learning 3 s.h.

The importance of play as a vehicle for learning in early childhood curricula. The design, implementation, assessment of play-based learning experiences upon developmentally-appropriate practices and related standards in art, mathematics, literacy, social studies, movement, music, and science. Integration of play-based creative experiences in the content areas into daily and weekly plans for children's learning. Focus on developmentally-appropriate assessment so that planned activities promote development and learning for all children. Prerequisite: CF 2160. Prerequisite or corequisite: ECE 2250.

ECE 3100 Language and Emergent Literacy 3 s.h.

Students apply theory- and research-based strategies to promote the emergent literacy of infants, toddlers, preschoolers, and kindergarteners. Through an exploration of multiple genres, including books that represent all types of diversity, students learn to scaffold children's literacy development across all early learning domains and content areas. Incorporates the use of developmentally appropriate technology designed to enhance literacy experiences and comprehension. Activities support parents in fostering literacy in the home, including those for whom English is a second language.

ECE 3160 Child Care Administration 3 s.h.

Requirements for infant, toddler, and early childhood care in center-based programs. Exploration of curriculum within centers for all groups. Leadership component highlights administrative skills, collaboration, planning, organizing, assembling resources, supervision of early childhood professionals, and advocacy for and support of young children and families. Prerequisite or corequisite: ECE 2650.

ECE 3310 Early Math and Science Education 3 s.h.

Application of research-based strategies that promote the development of early math and science skills in infants, toddlers, and preschoolers. Students learn how to identify math and science developmental skill sequences across different domains; assess, evaluate, and develop appropriate activities for centers and classrooms to promote skill development; and, create activities designed to extend math and science learning in the home.

ECE 3580 Early Childhood Curriculum Development 3 s.h.

Theories and strategies to respond to differences between and within children; Bloom's taxonomy and learning differences in children. Adapting the science, social studies, and mathematics curriculum to meet the needs of all in students in an integrated curriculum and foster social competence in children. Techniques to include technology in the curriculum. The course highlights the Universal Education Vision and Principles. Corequisite: ECE 3930.

ECE 3710 Inclusive Curriculum Birth to Eight 3 s.h.

Identification of infants, toddlers, and preschooler with special needs, accessing services, planning activities, and adapting the environment in order to program effectively. Collaboration with parents and professionals to advocate for and provide individualized programs and services for very young children with special needs is also emphasized, including participation in Individualized Family Service Plans and Individualized Education Plans. Prerequisite: ECE 3100.

ECE 3930 Preschool Practicum with Seminar 2 s.h.

Practicum of 120 clock hours in an early education center in either an infant, toddler, preschool, prekindergarten, or kindergarten classroom. Cumulative assumption of responsibilities in the early childhood classroom. Prerequisite: ECE 3100. *Observe posted deadlines for submission of application forms.*

ECE 4130 Home/School Partnerships (EDU) 3 s.h.

The role of the family in children's learning and development; the importance of forming positive home/school relationships with all families; strategies for working in partnership with parents, caregivers, and other professionals for the purpose of supporting the learning and development of children. Readings and experiences designed to foster the desire to and knowledge of ways to advocate for children and their families.

ECE 4160 Assessing Young Children 3 s.h.

The goals, benefits, use, and misuse of assessment and the skills required for observation, documentation, and effective assessment strategies. Responsible assessment practices and partnering with parents and other professional to positively influence children's development and learning. Multiple types of developmentally-appropriate assessment and their use in driving instruction. A field component is included.

ECE 4210 Design of Instruction for Children with Exceptional Learning Needs 3 s.h.

Design and implementation of learning experiences for children with exceptionalities through the use of learning supports and transition planning, and including the use of adaptive, assistive, and augmentative technologies. Students work in a professional team context to support

developmentally appropriate practice. Includes a field component. Prerequisite: ECE 3710.

ECE 4220 Early Childhood Education Workshops 1 s.h.

This workshop-based course focuses on the methods and materials relevant for candidates taking the Michigan ZS (Early Childhood and Special Education) Endorsement test. Prerequisite: ECE 4210.

ECE 4700 Directed Teaching: Early Childhood 4 s.h.

Supervised teaching in a K-3 school setting. 240 clock hours over 12 weeks required. Prerequisite: approval of advisor and admission to directed teaching. Corequisite: ECE 4810. Note: *The Early Childhood directed teaching application form is different from the College of Education and Human Development directed teaching application form. The same deadlines for submission apply to both deadlines for submission apply to both applications.*

ECE 4810 Directed Teaching Seminar: Early Childhood 1 s.h.

The forum to reflect upon and discuss practicum experiences in a supervised setting. Implementation of Positive Behavioral Support. Action research as a tool for self-reflection and continued professional development. Corequisite: ECE 4700.

Earth/Space Science (ESS)

ESS 2160.00 Earth Science 3 s.h.

Encompasses the rocky surface of our planet as related to the earth's mineral and energy resources, oceans, climate, interaction with the sun, history as a member of the solar system, and fate in the hands of humanity. Includes laboratory. *Interdisciplinary course designed for General Science, Integrated Science, and non-science majors.* Corequisite: ESS 2160.LB

ESS 2160.LB Earth Science Lab 1 s.h.

The purpose of this lab is to reveal the complex inter-relatedness of earth processes affecting the hydrosphere, atmosphere, and lithosphere. This course is designed to broaden the student's hands on and experimental lab experience that will enhance their understanding of the earth's geological and atmospheric processes, the astronomical origin of planet Earth and its Oceans. Lab will meet for 3 hours per week. Co-requisite ESS 2160.00.

ESS 2040 Oceans 3 s.h.

Introduction to the whole range of human interactions with the sea; includes special emphasis on environmental considerations and advancements associated with exploring the sea. *Interdisciplinary course designed for General Science, Integrated Science, and non-science majors.*

ESS 3260.00 Meteorology 3 s.h.

Introduction to the fundamentals of weather and climate: understanding of the various atmospheric phenomena that interact to produce daily weather occurrences and global climate patterns; meteorological phenomena, and issues involving hurricanes, tornadoes, thunderstorms, floods, ozone depletion, potential global warming, and growing environmental concerns. Laboratory exercises directed to extracting and analyzing data from the Madonna weather station and exercises related to the above topics. Corequisite: ESS 3260.LB

ESS 3260.LB Meteorology Lab 1 s.h.

This lab course provides the students with a hands-on introduction to experimental methods of scientific investigations in Meteorology and Climatology. It provides a first look at various aspects of atmospheric science including solar radiation, global circulation, environmental issues, winds, cloud formation, stability, precipitation processes, weather systems, and severe weather. The course will also emphasize the basic physical principles and processes that are important for a better understanding of the physical world and is designed for students of all majors interested in weather and global environmental change and other environmental disciplines. Lab will meet 3 hours per week. Co-requisite: ESS 3260.00.

ESS 3290.00 Principles of Astronomy 3 s.h.

Provides a comprehensive introduction to astronomy. Topics include the solar system, stars, galaxies, cosmology, and history of astronomy. Astronomical laboratory investigations are part of the course. *Interdisciplinary course designed for non-science majors and for majors in General and Integrated Science.* Corequisite: ESS 3290.LB

ESS 3290.LB Principles of Astronomy Lab 1 s.h.

The purpose of this lab is to give the students an experimental insight and building conceptual understanding of the universe. The lab activities target specific learning objectives such as understanding Newton's laws of motion, understanding Mar's retrograde motion, tracking stars on the H-R diagram, or comparing the properties of planets. Lab will meet 3 hours per week. Co-requisite: ESS 3290.00.

Economics (ECN)

ECN 2710 Economics for Human Services 3 s.h.

A survey of the discipline of economics with special reference to a market-driven economy. Attention given to economic policy in relation to social issues and problems, including government and the quality of life, distribution of wealth and income, unemployment, poverty, the disadvantaged, respect for the law, public health, and aid to the Third World. (No credit for School of Business majors.)

ECN 2720 Principles of Microeconomics 3 s.h.

Theories of production and cost, demand, supply, competition, consumer behavior, and distribution of income. Prerequisite: MTH 1050.

ECN 2730 Principles of Macroeconomics 3 s.h.

Measurement and determination of economic activity and development, aggregate income, and employment. Emphasis on consumption, monetary policy, taxes, government, investment, and expenditures. Prerequisites: MTH 1050.

ECN 3940 Economic Geography 3 s.h.

Geography from an economic perspective: locations and locational changes in primary, secondary, and tertiary production services; a comparative analysis of global demography; role and rise of the city and the metropolis; effects of technology; nations and regional and strategic political and commercial alignments and realignments; natural and human resources; the less-developed, more-

developed, and developing worlds; "core" and "periphery"; multinational corporations and the "global village."
Prerequisites: ECN 2720, INB 3140, and MGT 2360.

ECN 4520 Economic and Business History of the United States (HIS*) **3 s.h.**

Education (EDU)

EDU 2000 Introduction to Professional Education Experiences **3 s.h.**

Introduces the student to the realities of the teaching profession, the structure and operations of schools, current educational issues and trends, and the foundations of education. Course work includes observation and participation in classroom settings. Lecture 2 hours, laboratory 1 hour. Prerequisite: PSY 1010 and WRT 1020. *Note: during EDU 2000, the student must complete and sign a Consent for Criminal Background Check. See advisors in the Education Office for a sample form.*

EDU 2005 Intro to Professional Education **2 s.h.**
Introduces the student to the realities of the teaching profession, the structure and operation of schools, current educational issues and trends, and the foundations of education.

EDU 2010 Introductory Education Field Experience **1 s.h.**
Observations and participation in classroom settings. Designed for students who have completed an introductory education course equivalent to EDU 2000, but do not have the required field experience.

EDU 2020 Introduction to Discipline Literacy and Dyslexia **1 s.h.**

Introduction of two key concepts, disciplinary literacy and dyslexia, which are associated with the support of struggling readers in the pre-K to 12 setting. Emphasis on disciplinary literacy and its implications for all PK-12 teachers in supporting students, regardless of the discipline they teach. The phenomenon of dyslexia in affected students and the evidence-based practices is introduced, including enacting Multi-Tiered System of Supports (MTSS) models that support evidence-based instruction.

EDU 2140 Conflict Resolution (SOC/SW*) **1 s.h.**

EDU 2330 Learning and Teaching Number Concepts (MTH*) **3 s.h.**

EDU 2340 Learning and Teaching Geometric and Statistical Concepts (MTH*) **3 s.h.**

EDU 3040 Physical Education and Health for the Elementary Classroom Teacher (PED*) **3 s.h.**

EDU 3070 Social Studies Foundations (SSC*) **3 s.h.**

EDU 3090 Music for the Classroom Teacher (MUS*) **2 s.h.**

EDU 3120 Educational Psychology **3 s.h.**

Focus on the learning process; role of the teacher in learning; efficiency of learning as it is affected by the developmental processes; psychological principles that are central to the learning process and their relationship to the teaching situation; variables in learning; and evaluation of the outcomes of learning. Application of learning theory and multicultural concepts in a field-based context. Includes a 1 hour field experience (30 clock hours). Prerequisites: PSY 101 and EDU 2000.

EDU 3130 Field Experience for Educational Psychology **1 s.h.**
Observations and participation in classroom settings. Designed for students who have completed an educational psychology course equivalent to EDU 3120, but do not have the required field experience.

EDU 3160 Art Education in Elementary Schools (AED*) **2 s.h.**

EDU 3210 Theory and Principles of Reading Instruction (elementary and K-12) **3 s.h.**

Examination of theories and principals of reading instruction and the development of reading and writing in PK-3 Learners through evidenced-based, structured literacy practices. Content includes language and literacy acquisition, concepts of print, phonological and phonemic awareness, phonics, word recognition, vocabulary, comprehension, handwriting and writing composition. Students will also develop the ability to design structured literacy instruction and to utilize screening and assessment tools within a Multi-Tiered System of Supports (MTSS) framework to identify and support children with reading difficulties.

EDU 3300 The Exceptional Learner in the Classroom **3 s.h.**

Development of a working knowledge of the historical perspective of present special education programs, the effects of litigation, and the continuum of special education services. Identifying, evaluating, and differentiating instruction for students with special needs by way of a continuum of services in the least-restrictive environment. Response-to-intervention; positive behavior support; collaboration with school personnel and parents; community resources. Thirty-clock-hour field experience required.

EDU 3310 The Exceptional Learner Field Experience **1 s.h.**
Observations and participation in classroom settings that include exceptional learners. Designed for students who have completed an exceptional learner course equivalent to EDU 3300, but who do not have the College of Education and Human Development's associated 30 hours field experience. Advisor permission required.

EDU 3350 Language Arts and Linguistics Foundations **3 s.h.**

Study of the application of linguistic theory to language arts education, including an overview of linguistics, and its impact on oral and written communication, phonics, motivation and engagement. Course goals encompass an understanding of the linguistic growth of children, application of linguistics to speaking and listening, viewing, visually representing, and demonstration of effective instructional practices for

developing phonics, morphology, syntax, reading fluency, comprehension, vocabulary, and writing skills.

EDU 3460 Instructional Media 3 s.h.

Use of media and technology in the classroom to enhance teacher productivity and student learning. Development of objective-based lesson plans using technology to support a constructivist approach to establishing a learning environment. Demonstration of the ability to use commercially available software to prepare classroom presentations and instructional web sites. Issues related to "fair usage" and copyrights addressed.

EDU 3730 Science Foundations I: Chemistry and Life Science (NSC*) 3 s.h.

EDU 3730 Science Foundations I: Chemistry and Life Science Lab (NSC*) 1 s.h.

EDU 3740.00 Science Foundations II: Earth Science, Physics, and Astronomy (NSC*) 3 s.h.

EDU 3740.1B Science Foundations II: Earth Science, Physics, and Astronomy Lab (NSC*) 1 s.h.

EDU 4040 Literature for Young Adults (ENG*) 3 s.h.

EDU 4130 Home/School Partnerships to Support Learners (ECE*) 3 s.h.

EDU 4220 Reading in the Content Areas (elementary only) 3 s.h.

Study of the principles, techniques, and processes of discipline literacy instruction needed for students to be independent, strategic learners in the content areas taught in the PK-3 and 3-6 classroom. Application of learned principles and practices to teaching situations through the tutorial field experience with students who struggle with literacy learning in grades 3-6 grades.

EDU 4250 Literacy Education in the Secondary School 4 s.h.

Introduction to key concepts related to supporting struggling readers in PreK-12 settings. The first concept introduces disciplinary literacy and its implications for all PK-12 teachers in supporting students' reading comprehension across content areas, regardless of the discipline. The second concept examines the phenomenon of dyslexia and evidence-based practices, including structured literacy and MTSS frameworks, to support foundational skill development and reading comprehension through targeted, data-informed instruction. Prerequisites: EDU 3120 and acceptance to the Teacher Education Program.

EDU 4410 Creating Constructive Learning Environments 3 s.h.

This course provides a broad overview for how teacher candidates can cultivate and sustain effective and equitable learning environments for students in PK-12 settings. It examines current research on student engagement, classroom management, and culturally responsive learning while challenging teacher candidates to confront their own values and beliefs on these topics. This course also provides teacher candidates with strategies for optimizing physical classroom arrangements, dealing with student conflict, and working effectively with parents and families. The field component of this course engages candidates in observing

and reflecting on teaching strategies while developing their own approach to building a well-structured, inclusive learning environment.

Prerequisites: EDU 3120 and acceptance to the Teacher Education Program.

EDU 4421 Seminar for English Minors 1 s.h.

Methods and materials relevant for candidates who will be taking the Michigan Test for Teacher Certification in secondary English. Of special interest to those with a minor in English and a major in a non-English language arts field.

EDU 4423 Seminar for Speech Minors 1 s.h.

Methods and materials relevant for candidates who will be taking the Michigan Test for Teacher Certification in secondary Speech. Of special interest to those with a minor in Speech and a major in a non-English language arts field.

EDU 4430 Theory and Techniques of Instruction: Foreign Language (K-8) 2 s.h.

Theory of instruction, methods, and materials of foreign language in the elementary and middle school; observations of classroom procedures; and participation in simulation and micro-teaching. Emphasis on the application of effective instructional theory and practice, sound decision making, and multicultural education in a field-based context. Prerequisites: EDU 3120 and acceptance to the Teacher Education Program. Prerequisites or corequisites: EDU 4500.

EDU 4450 Foundations of Vocational Education 2 s.h.

Principles of vocational education; understanding the learning process in the vocational education classroom, particularly as applied to work-based learning; working with individual differences (developmental, cultural, motivational) as students are guided to increasingly complex work-based learning. Prerequisites: EDU 3120, EDU 3300, and acceptance to the Teacher Education Program.

EDU 4470 Theory and Techniques of Science Instruction: Elementary School 1 s.h.

Theories of instruction, methods, and materials for teaching science in the elementary and middle school. Attention is focused on the special skills needed to manage science activities, including topics of safety and experimentation with live animals, the application of the scientific method to classroom inquiry and an awareness of social/economic impacts of science and technology. Lecture 1 hour. Prerequisites: EDU 2000 and EDU 3120. Corequisite: EDU 4500.

EDU 4500 Theory and Techniques of Instruction: Elementary Mathematics and Science 4 s.h.

Theory of instruction, methods, and materials in the elementary school mathematics and science curriculum; observation of classroom practice and procedures; and participation in a field placement in which students gain experience in planning, teaching, and assessment. Emphasis on the application of effective instructional theory and practice for diverse student populations. Students develop and implement lesson plans that demonstrate the use of core teaching practices in math and science teaching. They demonstrate competence using a variety of lesson planning, teaching, and assessment strategies to address student needs and optimize student outcomes.

Lecture 3 hours, laboratory 1 hour. Prerequisites: EDU 2000, EDU 3120, and acceptance to the Teacher Education Program.

EDU 4510-4590 Theory and Techniques of Instruction: Major Field (Secondary) 2, 4 s.h.

Theory of instruction, methods, and materials in the secondary subject-matter fields in which students expect to teach; observations of classroom procedures; and participation in a field placement in which students plan, teach, and assess student performance. Emphasis is on the application of effective instructional theory and practice for diverse student populations. Students develop unit plans within their disciplines that demonstrate their competence in lesson planning, while employing a variety of teaching and assessment strategies. Lecture 3 hours, laboratory 1 hour. Students may not sign up for fewer than 4 s.h. unless approved by the Department. In special circumstances (such as extended student teaching), courses may be taken for smaller increments, with approval of the Dean's Office. Offered Fall only. Prerequisites: EDU 2000 and EDU 3120 and acceptance to the Teacher Education Program.

EDU 4510 Theory and Techniques of Instruction: Art Education (K-12) 4 s.h.

EDU 4520 Theory and Techniques of Instruction: English Language and Literature (5-9, 7-12) 4 s.h.

EDU 4530 Theory and Techniques of Instruction: World Languages (6-12) 4 s.h.

EDU 4540 Theory and Techniques of Instruction: CTE 4 s.h.

EDU 4550 Theory and Techniques of Instruction: Mathematics (6-12) 4 s.h.

EDU 4554 Theory and Techniques of Instruction: Mathematics (7-12) 4 s.h.

EDU 4556 Theory and Techniques of Instruction: Mathematics (5-9) 4 s.h.

EDU 4560 Theory and Techniques of Instruction: Music Education (K-12) 4 s.h.

EDU 4570 Theory and Techniques of Instruction: Integrated Science (6-12) 4 s.h.

EDU 4574 Theory and Techniques of Instruction: Integrated Science (7-12) 4 s.h.

EDU 4576 Theory and Techniques of Instruction: Integrated Science (5-9) 2 s.h., 4 s.h.

EDU 4580 Theory and Techniques of Instruction: Social Studies (6-12) 4 s.h.

EDU 4590 Theory and Techniques of Instruction: Career and Technical Education (9-12) 4 s.h.

EDU 4620 Theory and Techniques of Instruction: Physical Education and Health, K-12 4 s.h.

EDU 4630 Theory and Techniques of Instruction: World Languages (PK-12) 2 s.h.

Theory of instruction, methods, and materials for foreign language in elementary, middle, and high schools; observations of classroom procedures; and participation in simulation and micro-teaching. Emphasis on the application of effective instructional theory and practice, sound decision making, and multicultural education in a field-based context. Prerequisites: EDU 3120 and acceptance to the Teacher Education Program. Prerequisite or corequisite: EDU 4500 or EDU 4530.05.

DIRECTED TEACHING

Applications for admission to Directed Teaching must be approved by Teacher Education Committee. All candidates for initial teaching certificates must register for 8 s.h. of directed teaching and EDU 4810, Seminar: Directed Teaching, 1 s.h. Level-changing candidates must register for a minimum of 4 s.h. of directed teaching. In special circumstances (such as extended student teaching), courses may be taken for smaller increments, with approval of the Dean's Office.

EDU 4670 Directed Teaching: Physical Education and Health (K-12) 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4690 Directed Teaching: Middle School (5-9) 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4700 Directed Teaching: Elementary 2, 4, 6, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4710-4790 Directed Teaching: Secondary School 2, 4, 8 s.h.

EDU 4710 Directed Teaching: Art Education (K-12) 4, 8 s.h.

EDU 4720 Directed Teaching: English Language and Literature (6-12) 4, 8 s.h.

EDU 4724 Directed Teaching: English Language and Literature (7-12) 4 s.h.

EDU 4726 Directed Teaching: English Language and Literature (5-9) 2 s.h.

EDU 4730 Directed Teaching: World Languages (6-12) 2, 4, 8 s.h.

EDU 4740 Directed Teaching: CTE 4, 8 s.h.

EDU 4750 Directed Teaching: Mathematics (6-12) 4, 8 s.h.

EDU 4754 Directed Teaching: Mathematics (7-12) 4 s.h.

EDU 4756 Directed Teaching: Mathematics (5-9) 4 s.h.

EDU 4760 Directed Teaching: Music (K-12) 4, 8 s.h.

EDU 4770 Directed Teaching: Integrated Science (6-12) 4, 8 s.h.

EDU 4780 Directed Teaching: Social Studies (6-12) 4, 8 s.h.

EDU 4784 Directed Teaching: Social Studies (7-12) 4 s.h.

EDU 4786 Directed Teaching: Social Studies (5-9) 4 s.h.

EDU 4790 Directed Teaching: Career and Technical Education (9-12) 4, 8 s.h.

EDU 4800 Foundations of Education 3 s.h.

Study of the scope and nature of education, primarily at the elementary and secondary level in the United States, as reflected in the historical, political, economic, sociological, and philosophical forces affecting the school and other social institutions, with emphasis on the origins and evolution of various current educational practices, policies, and issues. Prerequisites: EDU 2000 and EDU 3120 and acceptance to the Teacher Education Program.

EDU 4810 Seminar: Directed Teaching 1 s.h.

EDU 4960 Senior Seminar for Elementary Educators 3 s.h.

Capstone seminar for senior-level students in elementary education. Candidates investigate the intersection of digital educational research and effective pedagogy. Candidates research and analyze a current issue within one of the four core major areas in education that impact PK-12 students' learning, access, and equity. Findings are showcased as part of their digital portfolio. This course includes methods and materials relevant to candidates taking the Michigan Test for Teacher Certification (MTTC).

Emergency Management (EM)

EM 1010 Introduction to Fire Protection and Prevention (FS*) 3 s.h.

EM 2010 Foundations of Emergency Management 3 s.h.
Philosophy and principles of emergency management, including homeland security, for private, public, and nonprofit sectors. Topics include planning, mitigation, response, and recovery procedures using the National Incident Management System and the Incident Command System.

EM 2410 Emergency Communication 2 s.h.

Principles of emergency management communication systems that affect the flow of information within the emergency operating event and the understanding of how to communicate to the general public with safety and security instructions. The role of the media to assist in gaining information and to disseminate messages of importance. Exploration of trends and technology of communication equipment and the use of social media as a direct link to emergency personnel and public.

EM 2420 Disaster Exercise Planning 1 s.h.

Exploration of the vital roles of local, state, and national preparedness enabling the student to test and evaluate plans and their capabilities. Table-top and/or coordinated full-scale disaster exercise prepare the student to design and develop, conduct, evaluate, and provide improvement planning through the exercise cycle.

EM 3010 Resource Allocation and Planning 3 s.h.

Study of the development and implementation of a comprehensive site emergency plan to protect the organization's people and property in an on-site emergency. Analysis of the roles that public, private, and nonprofit sectors have played in past incidents and how lessons learned from these incidents help an organization prepare for future

incidents. Emphasis on ethical issues regarding interaction among these four entities. Prerequisites: EM 2010.

EM 3020 Industrial Espionage and Operations Security 3 s.h.
Methods for the Emergency Manager to analyze and conduct risk assessments of technical and physical protection systems through the identification of current trends in information gathering techniques and the range of methods available to prevent, detect, and protect against breaches of proprietary information and assets. Prerequisite: EM 2010.

EM 3490 Psychology of Traumatic Experiences (PSY*) 1 s.h.

EM 3500 Homeland Security and Terrorism (CJ*) 3 s.h.

EM 4040 Proposal Writing and Grant Administration (AGE*/SOC/SW) 3 s.h.

EM 4250 Fire and Arson Investigation (FS*/OSH) 4 s.h.

EM 4510 Hazardous Materials I (FS/OSH*) 3 s.h.

EM 4520 Hazardous Materials II (FS/OSH*) 3 s.h.

EM 4950 Senior Seminar 2 s.h.

Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Emergency Medical Technology (EMT)

EMT 1550 Basic EMT 1-10 s.h.

Experiential learning credits available to those who have current State of Michigan licensure. Application for credit is to be made through the Program Coordinator for Fire Science and Occupational Safety, Health, and Fire Science in the Department of Physical and Applied Sciences.

English (ENG)

Note: For some courses formerly listed under English (ENG), please see the listings under WRT (WRT).

ENG 2080 Approaches to Grammar 3 s.h.

A linguistics course providing an historical sketch of the development of the English language, examining the interplay between theory of language and approaches to the study of grammar. By analyzing English phonology, morphology, syntax, semantics, and pragmatics, the course shows the changing nature of language and emphasizes how that change is influenced by politics and culture. The effects of dialect and register on communication in English are explored. Applications to teaching grammar in elementary and secondary settings are examined.

ENG 2230 World Literature 3 s.h.

An introduction to representative literary works, both Western and non-Western, reflecting the distinctive ideals, values, and attitudes of various eras and civilizations.

ENG 2550 Oral Interpretation of Literature (COM*) 3 s.h.

ENG 2620 Language and Culture 3 s.h.

A study of how and why people communicate in the ways they do. Habitual talking, listening, and writing behaviors of individuals and groups, as well as the influences of home, community, and culture on the language structures and

language uses of individuals. Culture, as it influences linguistic preference, is considered, along with methods of semiotic and discursal analysis.

ENG 2700 Critical Writing and Literary Analysis 3 s.h.

An introduction to critical writing and literary theory and criticism. Addresses the major frameworks of literary criticism that have emerged in Western critical theory. Prerequisite: WRT 1020. *Recommended during second year in major and minor.*

ENG 3030 Children's Literature and Drama (COM) 3 s.h.

A study of the world of children's literature and the history of children's literature with a focus on classic and contemporary works. Materials selected with reference to the interest, needs, and abilities of children.

ENG 3110 American Literature I: Beginnings to the Civil War 3 s.h.

A study of American literature from the pre-colonial era to the Civil War, with an overview of relevant forms, genres, and historical contexts. Explores the diverse elements of the American experience during this time period.

ENG 3120 American Literature II: The Post-Civil War to the Present 3 s.h.

A study of American literature from the Post-Civil War to the present, with an overview of relevant forms, genres, and historical contexts. Explores the changing values and concerns of American society as reflected in its literature from the mid-nineteenth century to twenty-first century.

ENG 3500 Studies in Women's Literature 3 s.h.

A study of literature written by and about women, with consideration of critical approaches that have been formulated by women within relevant historical contexts. Texts explore women's search for independence and fulfillment.

ENG 3540 American Folklore and Literature 4 s.h.

A study and practice of the methods used to analyze folklore, examine folkloristics as a discipline, and explore the relationship between folklore and literature. Students read and write about works of American literature in which folkloric phenomena have been simulated and transformed by American writers for literary purposes, and complete a collection project.

ENG 3630 British Literature I: Medieval to Renaissance 3 s.h.

A study of British literature from the early Middle Ages to the late Renaissance. Provides an overview of relevant forms, genres, and historical contexts, including representative works of Old and Middle English as well as Renaissance epic, lyric, and drama. Considers the influences of classic literature, the Reformation, and the English civil war.

ENG 3640 British Literature II: Restoration to the Present 3 s.h.

A study of British literature from 1667 to the present. An overview of relevant forms, genres, and historical contexts. Explores the Regency, Romantic, Victorian, Modernists, post-Modernist, and contemporary periods.

ENG 3710 Contemporary Literature 4 s.h.

A study of contemporary authors who may be classified as Modern or Postmodern; figures may include principal ethnic and minority writers.

ENG 4040 Literature for Young Adults (EDU) 3 s.h.

An overview of various genres of multicultural contemporary literature written for and marketed to young adults. Addresses major authors, illustrators, research, and current controversies in young adult literature. Examines strategies for teaching young adult literature at the middle and secondary school levels.

ENG 4100 Approaches to Teaching Classroom Classics 1 s.h. each (max. 6 s.h.)

The Approach to Teaching offerings examine fiction and non-fiction literature as appropriate and relevant works for study in elementary, middle, and/or secondary school classrooms. Featured authors and works vary by semester. May be repeated for credit with new topic.

ENG 4210 Time and Literature (HIS) 4 s.h. (max. 8 s.h.)

Interdisciplinary analysis of a particular period, event, or personality in terms of the human dilemmas and choices which are confronted.

ENG 4230 Voices and Visions: Modern American Poets 4 s.h.

The lives and works of classic American modern poets, including Walt Whitman, Emily Dickinson, Wallace Stevens, Marianne Moore, William Carlos Williams, Elizabeth Bishop, and others, explored in relationship to our own lives and works. Emphasis on ways to appreciate and enjoy the art of poetry. Videos or DVDs from the Voices and Visions television series are an integral part of the course.

ENG 4240 Cultural Issues in Contemporary Literature and Film 1 s.h. each (max. 6 s.h.)

Interdisciplinary examinations of contemporary cultural issues through literature and film. *May be repeated for credit with new topic.*

ENG 4450 African American Literature 3 s.h.

A study of African American literature including both oral and written traditions. Emphasis is placed on canonical writers and texts in historical context.

ENG 4460 Ethnic American Literature 3 s.h.

Focus on literature from various minority populations in America. Course content includes, but is not limited to, African American, Asia American, Arab American, Latino American, and Native American authors. Emphasis placed on the unique facets of each type of literature, as well as themes and experiences common to all ethnic groups in America.

ENG 4700 Studies in Literature 3 s.h. (max. 6 s.h.)

Study of a selected author(s), genre(s), or time period(s). Specific topic varies per semester.

ENG 4950 Senior Seminar 3 s.h.

Capstone course for senior-level students. Students construct portfolios of their academic and professional work in their respective programs of study, reconsider their liberal arts education, and conduct research on topics in their majors as part of an information fluency curriculum. In keeping with the need for technological literacy, students create electronic portfolios. *Must be taken in final twenty hours of the degree program.*

English as a Second Language (ESL)

English as a Second Language for Academic Purposes is taught at Madonna University in an Intensive format. Students

enroll in simultaneous units of speaking/listening, reading, writing, and grammar at one of six levels: Low-Intermediate, Intermediate, High-Intermediate, Pre-Advanced, Advanced, or High-Advanced. A 0-credit cultural immersion component is required with all levels.

ESL American Culture and Language Immersion 0 s.h.

This immersion experience is a component of each block of intensive English courses, an integral part of the Intensive English for Academic Purposes Program (IEAPP). Attendance is required for all students in the IEAPP. It combines rigorous academic instruction (writing activities, speech presentations) with cultural enrichment (field trips, discussion clubs).

ESL 1020 Orientation to American Higher Education 1 s.h.

Designed to provide first-time international students with knowledge about American university curricula, processes, and procedures. The curriculum spans an array of topics crucial to the academic success and emotional well-being of the non-native speaker who is unfamiliar with the expectations of American higher education. Enrollment limited to international students in specific programs.

ESL 2010 Low-Intermediate Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other low-intermediate skill modules. Beginning formal speaking and sustained factual listening experienced extensively. Short speeches reviewed and critiqued. Pronunciation practice is an integral part of the preparation for speech delivery. Colloquial versus formal language examined.

ESL 2015 Intermediate Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other intermediate skill modules. Intermediate formal speaking and sustained factual listening experienced extensively. Medium-length (three to five minutes) speeches reviewed and critiqued. Pronunciation practice is an integral part of the preparation for speech delivery. Colloquial versus formal language examined.

ESL 2020 Low-Intermediate Academic Reading 4 s.h.

The reading module taught in conjunction with other low-intermediate skill modules. Increasing paragraph reading comprehension. Acquiring high-frequency general academic vocabulary. Expanding dictionary skills.

ESL 2025 Intermediate Academic Reading 4 s.h.

The reading module taught in conjunction with other intermediate skill modules. Increasing long-paragraph reading comprehension. Acquiring medium-frequency general academic vocabulary. Expanding dictionary skills.

ESL 2030 Low-Intermediate Academic Writing 4 s.h.

The writing module taught in conjunction with other low-intermediate skill modules. Expanding sentence structure and paragraph construction, including unity, transitional phrases, and grammatical cohesiveness.

ESL 2035 Intermediate Academic Writing 4 s.h.

The writing module taught in conjunction with other intermediate skill modules. Expanding sentence structure and paragraph construction, including formulating thesis statements, using introductory hooks, and content-appropriate conclusions. Practice cohesion in writing.

ESL 2040 Low-Intermediate Academic Grammar 4 s.h.

The grammar module taught in conjunction with other low-intermediate skill modules. Development of existing knowledge of grammar structures and acquisition of new ones. Emphasis is on the use of simple and some complex verb tenses, as well as auxiliary and modal verbs. These and other grammar structures are practiced through the performance of common language functions, such as making suggestions, requests, and invitations.

ESL 2045 Intermediate Academic Grammar 4 s.h.

The grammar module taught in conjunction with other intermediate skill modules. Further development of existing knowledge of grammar structures and acquisition of new ones. Emphasis is on the use of complex verb tenses and corresponding auxiliary and modal verbs. The use of prepositions accompanying high-frequency verbs is modeled. These and other grammar structures are practiced through speaking and writing.

ESL 3010 High-Intermediate Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other high-intermediate skill modules. Continued development of listening and speaking skills in conversational and academic settings. Focus on various topics encountered in general education courses. Practice of word stress, connected speech, intonation, rhythm.

ESL 3015 Pre-Advanced Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other pre-advanced skill modules. Continued development of listening and speaking skills in academic settings. Focus on topics encountered in general education courses. Continued practice of advanced pronunciation elements of stress, intonation, and rhythm to communicate more clearly with less pauses and fillers.

ESL 3020 High-Intermediate Academic Reading 4 s.h.

The reading module taught in conjunction with other high-intermediate skill modules. Transiting from ESL texts to authentic general education materials. Instruction in various reading strategies to increase reading comprehension. Acquiring low-frequency general academic vocabulary.

ESL 3025 Pre-advanced Academic Reading 4 s.h.

The reading module taught in conjunction with other pre-advanced skill modules. Continued development of reading skills with a focus on general education topics. Practice various reading strategies to increase reading comprehension and speed of academic and literary texts. Acquiring pre-advanced academic vocabulary from the Academic Word List.

ESL 3030 High-Intermediate Academic Writing 4 s.h.

The writing module taught in conjunction with other high-intermediate skill modules. Introducing stages of the writing process. Expanding the knowledge of organizational patterns used in writing compositions and paragraphs. Integrated readings serve as models for the principal parts of compositions with focus on unity and grammatical cohesiveness.

ESL 3035 Pre-Advanced Academic Writing 4 s.h.

The writing module taught in conjunction with other pre-advanced skill modules. Using the stages of the writing process to write extended paragraphs and short essays. Expanding the knowledge of organizational patterns used in writing

compositions and paragraphs. Integrated readings serve as models for the principal parts of compositions with focus on unity and grammatical cohesiveness.

ESL 3040 High-Intermediate Academic Grammar 4 s.h.

The grammar module taught in conjunction with other high-intermediate skill modules. Integrating reading and rhetoric to identify key structures and grammar rules that govern them. Focus on the use of complex tenses as well as the formation and manipulation of clauses in complex sentences and the sequence of verb tenses across clauses.

ESL 3045 Pre-Advanced Academic Grammar 4 s.h.

The grammar module taught in conjunction with other pre-advanced modules. Integrating reading and rhetoric to identify key structures and grammar rules that govern them. Review and practice of the use of complex tenses as well as the formation and manipulation of clauses in complex sentences and the sequence of verb tenses across clauses.

ESL 3120 Advanced Reading and Writing for Business 3 s.h.

An introduction to organizational patterns used in writing both compositions and paragraphs for business. Integrated readings serve as models for the principal parts of compositions, with a stress on coherence and unity. Students complete a variety of writing assignments designed to enhance their ability to apply grammar and vocabulary skills to elements of paragraph writing and reading comprehension necessary for successful business communications. *Enrollment limited to international students in specific programs.*

ESL 4010 Advanced Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other advanced skill modules. Preparation for the demands of academic lecture comprehension, note-taking, as well as predicting, evaluating, and organizing academic lectures. Formal academic speeches pertinent to students' major disciplines are practiced and critiqued with focus on structure, delivery, and comprehensibility. May include an academic service-learning experience.

ESL 4015 High-Advanced Academic Speaking/Listening 4 s.h.

The speaking/listening module taught in conjunction with other high-advanced skill modules. Continued refinement of academic listening and speaking skills to prepare for coursework. Emphasis on comprehension of academic lectures and authentic extended listening tasks. Practice in small and large group discussions of academic concepts. Formal research based academic speeches pertinent to students' major disciplines are practiced and critiqued with focus on structure, delivery, and comprehensibility.

ESL 4020 Advanced Academic Reading 4 s.h.

The reading module taught in conjunction with other advanced skill modules. Authentic content-specific academic and literature readings are used to increase comprehension of difficult texts. Current articles of political, economic, and sociological importance, taken from journals and periodical literature, are read, analyzed, and written about. Morphological analysis and contexts clues are used to construct the meaning of unknown words. Focus on discipline-specific vocabulary.

ESL 4025 High-Advanced Academic Reading 4 s.h.

The reading module taught in conjunction with other High-advanced skill modules. Authentic content-specific academic and literary readings are used to increase comprehension of

difficult texts. Current articles of political, economic, and sociological importance, taken from journals and periodical literature, are read, analyzed, and written about. Review of strategies in Morphological analysis and contexts clues in the construction of meaning of unknown words to increase reading speed and comprehension. Expand use of discipline-specific vocabulary.

ESL 4030 Advanced Academic Writing 4 s.h.

The writing module taught in conjunction with other advanced skills modules. Extensive practice in rhetorical strategies and techniques and a review of appropriate grammatical structures and verb tenses. Focus on writing various types of academic essays (descriptive, comparison, cause and effect, problem and solution, persuasive) using the writing process.

ESL 4035 High-Advanced Academic Writing 4 s.h.

The writing module taught in conjunction with other high-advanced skill modules. Continued practice in rhetorical strategies and techniques and a review of appropriate grammatical structures and verb tenses. Focus on writing various types of academic essays (descriptive, comparison, cause and effect, problem and solution, persuasive) using the writing process. Higher order and low order issues in L2 writing are compared and practiced.

ESL 4040 Advanced Academic Grammar 4 s.h.

The grammar module taught in conjunction with other high-intermediate skill modules. The study and analysis of the grammatical structures and their rhetorical functions within contemporary academic and literary prose. Focus on the use of passive voice, past modals, unreal conditionals, and subjunctives.

ESL 4045 High-Advanced Academic Grammar 4 s.h.

The grammar module taught in conjunction with other high-advanced skill modules. Continued study and analysis of grammatical structures and their rhetorical functions within contemporary academic and literary prose. Practice of using complex grammatical structures with a special focus on the use of passive voice, past modals, unreal conditionals, and subjunctives.

ESL 4230 Research Paper Writing 3 s.h.

Focus on writing a research paper from organization to completion, with a segment on plagiarism. Both MLA and APA style are introduced, as are techniques on how to incorporate courses into the body of the paper. In addition to the research paper, students write abstracts, research proposals, and a reflection paper. All drafts and copies of courses are presented in a portfolio. This course is considered to be the equivalent of WRT 1020, College Composition II.

NOTE: UP TO 19 SEMESTER HOURS OF 4000-LEVEL ESL COURSES ARE APPLICABLE TO THE STUDENT'S UNDERGRADUATE DEGREE ACCORDING TO THE FOLLOWING:

- ESL 4010 OR ESL 4015 (4 S.H.)
- ESL 4020 OR ESL 4025 (4 S.H.)
- ESL 4030 OR ESL 4035 (4 S.H.)
- ESL 4040 OR ESL 4045 (4 S.H.)
- ESL 4230 (3 S.H.)

Environmental Science (ENV)

ENV 2110 Greenhouse Explorations (BIO) 3 s.h.

An introduction to growing plants in a greenhouse, plant identification, and growing specific plants in this environment. Explores applications of greenhouse practices to sustainability.

ENV 2930 Internship in Environmental Science 1-4 s.h.

Field placement in governmental, industrial, or academic settings that provide experience in environmental science issues, e.g., water, soil, sewer, and/or sediment testing, community cleanup, park management, animal shelter.

ENV 3210.00 Limnology: The Study of Lakes 2 s.h.

A study of the influences of physical, chemical, and biological factors on the structure and function of inland lakes and ecosystems. Lecture will meet 2 hours per week. Prerequisite: 6 s.h. in Biology. Co-requisite: ENV 3210.LB.

ENV 3210.LB Limnology: The Study of Lakes Lab 1 s.h.

A study of the influences of physical, chemical, and biological factors on the structure and function of inland lakes and ecosystems. Lab will meet for 3 hours per week. Prerequisite: 6 s.h. in Biology. Co-requisite ENV 3210.00.

ENV 3230 Geographic Information Systems (BIO) 3 s.h.

Focus on using location-based data for wide-ranging applications, including environmental science, public health, and social science. Geographic Information Systems (GIS) are computer systems that process, analyze, and visualize location data. The collection, understanding, processing, and communication of location data are explained, demonstrated, and used in project-based assignments.

ENV 3312 Introduction to Sustainable Food Systems and Nutrition (NFS*) 2 s.h.

ENV 3320.00 Environmental Analysis 3 s.h.

Application of spectrophotometric and field-kit methods in the elucidation of quantitative and qualitative data from soil, water, algae, invertebrates, plants, and fish collections. Lecture and laboratory. Prerequisites: CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB, MTH 1210, or equivalent. Co-requisite: ENV 3320.LB.

ENV 3320.LB Environmental Analysis Lab 1 s.h.

Application of spectrophotometric and field-kit methods in the elucidation of quantitative and qualitative data from soil, water, algae, invertebrates, plants, and fish collections. Lab will meet 3 hours per week. Prerequisites: CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB, MTH 1210 or equivalent. Co-requisite: ENV 3320.00.

ENV 3930 Internship in Environmental Science 1-4 s.h.

Field placement in governmental, industrial, or academic settings that provide experience in environmental science issues, e.g., water, soil, sewer, and/or sediment testing, community cleanup, park management, animal shelter.

ENV 4700 Environmental Investigation 1-4 s.h. (max. 4 s.h.)

Independent research, directed reading, or special problems under the supervision of a faculty member. Prerequisites: recommendation of major advisor and program director.

ENV 4710.00 Environmental Pollutions 3 s.h.

Research investigations focused on a variety of pollution topics, e.g., mercury or metal concentration analysis of soil, water, invertebrates, fish, and plants; *E. coli* colony studies of the nearby lakes and ponds; development of environmentally-

friendly biocides; acid rain/air pollutants. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIO 1040.00, BIO 1040.LB, CHM 1120.00, CHM 1120.LB. Co-requisite: ENV 4710.LB .

ENV 4710.LB Environmental Pollution Lab 1 s.h.

Application of spectrophotometric and field-kit methods in the elucidation of quantitative and qualitative data from soil, water, algae, invertebrates, plants, and fish collections. Lab will meet 3 hours per week. Prerequisites: CHM 1120.00, CHM 1120.LB, CHM 2210.00, CHM 2210.LB MTH 1210 or equivalent. Co-requisite: ENV 4710.00.

ENV 4950 Senior Seminar 2 s.h.

Preparation and presentation of a research paper. All seniors in the College of Science and Mathematics must complete this course with a grade of C (2.0) or better as a graduation requirement: to be taken within the last 6-8 hours of the major.

Family and Consumer Sciences (FCS)

FCS 1250 Health Problems (NSC*) 4 s.h.

FCS 2260.00 Food Science and Sanitation (NFS*) 2 s.h.

FCS 2260.LB Food Science and Sanitation Lab (NFS*) 1 s.h.

FCS 2270 Human Nutrition (NFS*) 3 s.h.

FCS 2700 Child Psychology (PSY*) 4 s.h.

FCS 2930 Practicum in Children and Youth Services 1 s.h.

Fifty hours of experience working with children and/or youth.

FCS 2940 Practicum in Educational Services 1 s.h.

Fifty hours of experience in an educational setting.

FCS 3130 Adolescent Psychology (PSY*) 4 s.h.

FCS 3530 Marriage and the Family (RST*/SOC) 4 s.h.

FCS 3700 Life Cycle Financial Planning (FIN*) 3 s.h.

FCS 3750 Human Shelter and Environment (MRM) 4 s.h.

Emphasis on the impact of design and environment on individuals and families. Environments are studied as they relate to social, psychological, economic, and legislative conditions in society. Interior design fundamentals and the impact of the designed environment on human behavior. Space planning, furnishing, and selection of materials and components for interiors. (3 hours lecture, 1 hour academic service-learning component.)

FCS 3930 Practicum in Family Services 1 s.h.

Fifty hours of experience in a family service agency.

FCS 3940 Practicum in Consumer Services 1 s.h.

Fifty hours of experience in consumer services.

FCS 4500 Issues Challenging Children and Families (CF*) 3 s.h.

FCS 4530 Teaching Personal Development and Career Planning 3 s.h.

Introductory course in the career development process. Students participate in an interactive learning experience that involves self-discovery, career investigations and planning,

and the use of technological and community resources. An externship in an individual's pathway of choice is required.

FCS 4950 Senior Seminar 2 s.h.

Integration of program competencies and deepening of students' practical understanding of positive influences on the social, emotional, physical, and economic well-being of children and adolescents. A culminating action research project and presentation are designed to develop reflective practitioners who are attuned to significant issues in the field.

Financial Administration (FIN)

FIN 1010 Financial Literacy 1 s.h.

This course introduces financial literacy for everyday use. Topics include personal financial planning and investments, budgeting and spending, consumer credit and debt, insurance, taxes, and government benefits.

FIN 3150 Corporate Finance 3 s.h.

Study of the management of the financial affairs of a business enterprise in respect to planning and analysis of the financial decision-making function. Topics include: financial ratio analysis, valuation principles, the time value of money, interest rates, bond and stock valuation, working capital management, leverage, capital budgeting, and capital structure decisions. Prerequisites: ACC 2020.

FIN 3210 Investments 3 s.h.

An introduction to various financial securities, markets, and theories. Topics include arbitrage pricing theory, capital asset pricing model, efficient market hypothesis, and bond and equity valuation. Prerequisite: FIN 3150.

FIN 3700 Life Cycle Financial Planning (FCS) 3 s.h.

Basic planning of personal finances to satisfy personal and family life cycle goals. Topics include: budgeting, consumer credit, investments, insurance, personal residences and real estate, retirement plans, individual income taxes, and the life cycle of personal investment strategies.

FIN 4120 Money and Banking 3 s.h.

Introduction to various financial markets, including monetary market, stock market, foreign exchange market, and international markets. Examination of the characteristics, functions, organizations, and management of the markets, as well as the role of the monetary authority and its relationship to the financial system. Exploration of the frameworks, participants, and risks of specific financial instruments in each market. Prerequisite: ECN 2730.

FIN 4250 Financial Statement Analysis 3 s.h.

A focus on how to interpret financial statements and how to gather useful information to make investment and lending decisions. Topics include profit analysis, risk analysis, company valuation, and valuation of investment decisions. Prerequisites: FIN 3150.

FIN 4300 Budgeting and Financing of Sport (SM*) 3 s.h.

FIN 4910 Internship 3 s.h.

Internships are experiential learning activities designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment. The internship provides an opportunity to build professional networks and to explore career interests. Students

must complete a minimum of 150 hours of professional work related to their major or concentration. Prerequisites: Student must complete nine semester hours within their major or concentration.

Fire Science (FS)

FS 1010 Introduction to Fire Protection and Prevention (EM) 3 s.h.

History of fire protection practices; problems of fire suppression and practices; aspects of fire protection and prevention, including basic field equipment, methods of fire suppression, fireground command structure, inspection procedures, codes, and the town grading schedule.

FS 1030 Basic Fire Protection Training 1-6 s.h.

Credit awarded for evidence of successful completion of a certified training program.

FS 2150 Building Construction (OSH*) 3 s.h.

FS 2910 Cooperative Education I 1-3 s.h.

Field placement in either municipal, industrial, hospital, or similar settings that provide experience in fire protection for pre-service students.

FS 2930 Internship I 1-3 s.h.

Field placement in either municipal, industrial, hospital, or similar settings that provide experience in fire protection for pre-service students.

FS 3020 Field Experience 1-3 s.h.

Credit awarded individuals for evidence of full-time employment of two or more years in fire protection. Documentation of competencies required.

FS 3110 Industrial Safety and Health (OSH*) 3 s.h.

FS 3220 Inspection and Survey of Facilities (OSH*) 3 s.h.

FS 3500 Hydraulics and Water Supply (OSH) 3 s.h.

Principles of hydraulics theory, grading of water supplies, water supply adequacy testing procedures, and computation of velocity, friction loss related to tactical decision making. Prerequisites: PHY 2530.00 and PHY 2530.LB and PHY 2540.00 and PHY 2540.LB.

FS 3680 Fire Protection Systems I (OSH) 3 s.h.

Survey of sprinkler systems covering design details, placement, inspection, and maintenance; practical application of current codes and standards for system utilizations. Prerequisite: MTH 1050 or its equivalent.

FS 3690 Fire Protection Systems II (OSH) 3 s.h.

Principles of use and design of special hazards fire suppression systems; halons, halon replacements/clean agents, dry chemicals, foam, and alarm and detection systems. Prerequisite: MTH 1050 or its equivalent.

FS 3910 Cooperative Education II 1-3 s.h.

Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or instructional settings. Pre-service students only.

FS 3930 Internship II 1-3 s.h.

Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or instructional settings. Pre-service students only.

FS 4250 Fire and Arson Investigation (EM/OSH) 4 s.h.

Role of safety/fire science specialists in arson investigation; methods and mechanics of protecting, searching, and controlling the fire scene; interviewing process; recognition and preservation of evidence; interventions with troubled fire setters. Evaluation and application of methods and techniques for investigative determination of fire occurrences. Includes study of the origin of ignition and conducting investigative surveys. Preparation of case evidence for expert witness and court testimony. Review of Michigan and national arson laws. Prerequisites: FS 1010 and FS 2150.

FS 4400 Tactics and Strategy (OSH) 3 s.h.

Study and evaluation of various methods and techniques employed in fire suppression. Includes preplanning and analysis of emergency situations with emphasis on individual decision-making, the effective use of equipment, apparatus, and manpower.

FS 4510 Hazardous Materials I (EM/OSH*) 3 s.h.**FS 4520 Hazardous Materials II (EM/OSH*) 3 s.h.****FS 4900 Fire Service Management (OSH) 3 s.h.**

Principles of management and organization in fire protection. Includes analysis of an organization as to its administrative, leadership, and management style in fire protection.

FS 4950 Senior Seminar 2 s.h.

Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the major.*

Foreign Language

See listing under World Languages (WL).

Forensic Science (FOR)**FOR 1010.00 Introduction to Forensic Science 3 s.h.**

Introduction to the theory and application of modern forensic science techniques. Fundamental science concepts applied to crime scene evidence collection and analysis. 3 hours lecture, 3 hours of laboratory per week. Lecture meets 3 hours per week. Corequisite: FOR 1010.LB

FOR 1010.LB Introduction to Forensic Science Lab 1 s.h.

Laboratory course focused on the application of fundamental science concepts to crime scene evidence collection and analysis. Laboratory meets 3 hours per week. Corequisite: FOR 1010.00

FOR 2100 Research Methods in Forensic Science 1 s.h.

This course will develop critical thinking skills by introducing students to the basics of the scientific method, experimental design, interpreting results, and recognizing the impact of research findings in Forensic Science.

FOR 3040 Criminal Law and Procedure (CJ*) 3 s.h.**FOR 3210 Principles of Criminology (CJ*/SOC) 3 s.h.****FOR 3410.00 Impression and Trace Evidence Analysis 3 s.h.**

Theory and practical application of impression and trace evidence analysis in forensic science from crime scene collection to crime laboratory processing. Fundamental science concepts used in the preservation, analysis, and interpretation of impression and trace evidence applied in the course work and through hands-on laboratory experiments. Lecture 3 hours, laboratory 3 hours per week. Prerequisites: admission to Forensic Science program and CHM 2220.00 and CHM 2220.LB. Corequisite: FOR 3410.LB

FOR 3410.LB Impression and Trace Evidence Analysis Lab 1 s.h.

Laboratory course focused on the practical application of techniques and instrumentation used in impression and trace evidence analysis, from crime scene collection to crime laboratory processing. Laboratory meets 3 hours per week. Prerequisites: admission to Forensic Science Program, CHM 2220.00, and CHM 2220.LB. Corequisite: FOR 3410.00

FOR 3420.00 Firearm and Tool Mark Analysis 3 s.h.

Introduction to theory and application of firearm and tool mark analysis in forensic science. Fundamental science concepts used in the preservation, analysis, and interpretation of this evidence applied in the course work through hands-on laboratory experiments. Note: laboratory exercises are limited to disabled firearms using standard operating procedures for safety based on FBI laboratory protocols. Lecture meets 3 hours per week. Prerequisite: admission to Forensic Science program. Corequisite: FOR 3420.LB

FOR 3420.LB Firearm and Tool Mark Analysis Lab 1 s.h.

Laboratory course focused on the use of common techniques and practices in the examination of firearms and tool mark evidence. Note: laboratory exercises are limited to disabled firearms using standard operating procedures for safety based on FBI laboratory protocols. Laboratory meets 3 hours per week. Prerequisite: admission to Forensic Science program. Corequisite: FOR 3420.00.

FOR 3430.00 Introduction to Forensic Anthropology 3 s.h.

Examination of bioanthropological methods to aid in cases of forensic or medicolegal importance. The role of the forensic anthropologist and history of the discipline. Overview of the goals, techniques, and broader applications of forensic anthropology. Lecture meets 3 hours per week. Prerequisites: admission to Forensic Science program and BIO 2450.00, BIO 2450.LB. Corequisite: FOR 3430.LB.

FOR 3430.LB Introduction to Forensic Anthropology Lab 1 s.h.

Laboratory course focused on the application of procedures and techniques used by forensic anthropologists in the field. Laboratory meets 3 hours per week. Prerequisites: admission to Forensic Science program, BIO 2450.00, BIO 2450.LB. Corequisite: FOR 3430.00.

FOR 4010 Population Genetics (BIO*) 3 s.h.**FOR 4150 Criminal Investigation (CJ*) 3 s.h.****FOR 4520.00 Forensic Biology (BIO) 3 s.h.**

Theory and application of current biological methods to the practice of forensic science including serological, immunological, and DNA analyses of human biofluids commonly recovered at crime scenes. Lecture meets 3 hours per week. Prerequisites: admission to Forensic Science

program, and BIO 3010.00, BIO 3010.LB, CHM 3610.00, CHM 3610.LB. Corequisite: FOR 4520.LB.

FOR 4520.LB Forensic Biology (BIO) Lab 1 s.h.

Laboratory course focused on the application of current biological methods to the practice of forensic science including serological, immunological, and DNA analyses of human biofluids commonly recovered at crime scenes. Laboratory meets 3 hours per week. Prerequisites: admission to Forensic Science program, and BIO 3010.00, BIO 3010.LB, CHM 3610.00, CHM 3610.LB. Corequisite: FOR 4520.00

FOR 4540.00 Forensic Chemistry (CHM) 3 s.h.

Focus on the forensic analysis of trace evidence (glass, soil, hair, fibers, paint and polymers) with emphasis on forensic microscopy and microchemical analysis. Topics include chemical processing for the detection, enhancement, and identification of latent substances. Lectures meets 3 hours per week. Prerequisites: Admission to Forensic Science program, CHM 4510.00, and CHM 4510.LB. Corequisite: FOR 4540.LB.

FOR 4540.LB Forensic Chemistry Lab (CHM) 1 s.h.

Laboratory course focused on the forensic analysis of trace evidence (glass, soil, hair, fibers, paint and polymers) with emphasis on forensic microscopy and microchemical analysis. Experiments include chemical processing for the detection, enhancement, and identification of latent substances. Laboratory meets 3 hours per week. Prerequisites: Admission to Forensic Science program, CHM 4510.00, and CHM 4510.LB, Corequisite: FOR 4540.00.

FOR 4640.00 Toxicology (BIO) 3 s.h.

Non-laboratory study of cellular and human pathophysiology as a result of toxic insult. Exploration of toxicants includes analysis of impact of human exposure and disease, as well as the forensic examination of samples for toxicants. Prerequisites: BIO 1030.00 and BIO 1030.LB; CHM 2210.00 and CHM 2210.LB; BIO 2250, or BIO 2460.00 and BIO 2460.LB recommended. Corequisite: FOR 4640.LB.

FOR 4640.LB Toxicology Lab (BIO) 1 s.h.

Laboratory experience includes hands-on training in the use of specialized instrumentation for forensic toxicology and the analysis of forensic chemical evidence. Laboratory meets 3 hours per week. Corequisite: FOR 4640.00.

FOR 4650.00 Ethics and Expert Testimony 2 s.h.

Investigative ethics and their implications for forensic science professionals. Overview of the laws governing expert testimony, including on-site case reviews in local courtrooms. The characteristics of an effective expert testimony are exhibited by students in capstone mock testimonies. 2 hours lecture, 3 hours field experience per week. Prerequisites: admission to Forensic Science program and CJ 3040. Corequisite: FOR 4650.LB.

FOR 4650.LB Ethics and Expert Testimony Lab 1 s.h.

Field experience focused on investigative ethics and their implications for forensic science professionals, including on-site case reviews in local courtrooms. Students will exhibit the characteristics of an effective expert testimony in capstone mock testimonies. Lab/field experience meets 3 hours per week. Corequisite: FOR 4650.00.

FOR 4910 Cooperative Education 1 s.h.

FOR 4920 Cooperative Education 1 s.h.

FOR 4930 Internship in Forensic Science 1-4 s.h.

FOR 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

General Studies (GST)

GST 3020 Introduction to General Studies 3 s.h.

An introduction to the ideas of General Studies and the goals for the General Studies major. Students will create a plan of study for the successful completion of the program and prepare to demonstrate their achievement of the program's outcomes in the capstone course.

GST 4950 General Studies Senior Seminar 3 s.h.

Students will apply different ways of knowing, integrative thinking, and information fluency to the achievement of a senior project related to their goals, with the support of the instructor. Students will review their individual curriculum choices in the General Studies major and prepare a resume that presents accomplishments in their university degree. This summative course should be taken in the concluding semester in the General Studies program.

Gerontology

See instead courses listed under AGING (AGE) Studies.

Geography (GEO)

GEO 1210 Introduction to Geography 3 s.h.

Basic concepts, terms, and methods of geography and the physical and cultural regions of the world, the United States, and Michigan; relationship between the diversity of humans and the physical environment; major world, regional, and local patterns and processes.

GEO 3050 World Regional Geography 3 s.h.

Regional study of the earth's realms; cultural and physical factors affecting people; effect of the demographic and industrial revolutions of the world.

Graphic Design (GDA)

GDA 1710 Graphic Design I (JRN) 3 s.h.

Overview of the field of graphic design, with emphasis on basic terminology, process, and procedure. The elements and principles of successful graphic design are introduced and practiced through hand-rendered and digital projects. Corequisite: GDA 1720, GDA 1730.

GDA 1720 Digital Imaging 3 s.h.

An introduction to the uses of **Adobe Illustrator**. Students master key **Adobe Illustrator** program functions, including tools and palettes, in creating digital images. In this course students create projects that demonstrate a clear understanding of these digital visual communication tools.

GDA 1730 Digital Layout 3 s.h.

An introduction to and use of **Adobe InDesign** for creating clear, creative layouts of visual communications. Students

master key program functions, including tools and palettes, in creating digital layouts using **Adobe InDesign**.

GDA 2050 Typography 3 s.h.

An exploration of the history and current use of typography within the graphic design community. With introduction to terminologies, letterforms, and the uses of typography as an art form, these aspects are explored through the creation of hand-rendered and digital projects. Students are encouraged to use typography to meet specific graphic needs for specific target audiences. Recommended prerequisite: GDA 1720 or GDA 1730.

GDA 2100 Illustration 3 s.h.

An overview of the field of Illustration, with introduction of the use of research, and reference materials. Projects explore composition and use of different media. Students are encouraged to develop conceptual solutions to specific needs and visually communicate those solutions to target audiences. Prerequisite or corequisite: ART 1010, ART 1030.

GDA 2710 Graphic Design II 3 s.h.

Exploration of the printing process and formats for graphic design. The elements and principles of successful graphic design are developed to an intermediate level of proficiency through design projects that include editorial design, book design, identity branding, environmental design, and packaging design. Prerequisite: GDA 1710; corequisite: GDA 1720 or GDA 1730.

GDA 3150 Photoshop (BCA/JRN) 3 s.h.

Introduction to a variety of image processing capabilities, with an emphasis on the development of original raster images related to art, design, and motion graphics. Students learn various components of **Adobe Photoshop**, including image conversion, compositing, color correction, and manipulating layers, working with paths, and print preparation.

GDA 3210 Motion Graphics (BCA) 3 s.h.

An introduction to motion graphics and animation in which students explore tools, concepts, and practices, with a focus on research, character design, basic sequencing, and visual storytelling. Prerequisites: GDA 1720, GDA 2710, GDA 3150.

GDA 3740 Graphic Design III 3 s.h.

Examination of advanced terminology, processes, and procedures, and collaborative work in graphic design. Special emphasis on advertising design formats, including ad campaigns, guerilla advertising, and promotional advertising. Prerequisite: GDA 2710.

GDA 3800 Web Design for Graphic Designers 3 s.h.

Students build on previous computer and design skills to master key program functions, including tools and palettes, in constructing websites. Course addresses uses of specific web-design programs such as Flash or Dreamweaver. Recommended prerequisite: GDA 1720, GDA 1730, GDA 3150

GDA 3840 UX/UI Design 3 s.h.

An introduction to UX/UI design concepts, practices, and software. The course will explore experience and interface prototype creation for websites, mobile apps and other digital products. Prerequisites: GDA 2710; GDA 3150; GDA 3800.

GDA 4740 Graphic Design IV 3 s.h.

Advanced-level exploration of processes and procedures in graphic design. Special emphasis on branding and identity

design is achieved through individual and collaborative projects using research and conceptual skills. Development of professional quality student portfolio. Prerequisite: GDA 3740.

Health Services Administration (HSA)

HSA 3750 Health Services Administration 3 s.h.

The organizational design and structure of health care organizations; methods for setting objectives and strategies as well as defining outcomes; the organizational dynamics of motivation, leadership, and communication techniques in various health care settings. Prerequisite: MGT 2360.

HSA 4250 Health Care Law 3 s.h.

Designed to address the needs of health professionals for information on the fundamentals of Michigan law. Legal terminology, organization of the court system, the source of law, and basic principles of civil and criminal liability as it relates negligence and malpractice. Issues relative to confidentiality, documentation, informed consent, conflict of law, risk management, and advanced directives. Prerequisites: BL 3330 and HSA 3750.

HSA 4740 Health Care Finance 3 s.h.

Introduction to the theory and practice of health care finance addressing issues of medical cost, models of provider behaviors, regulatory constraint, technology assessment, and access to care. Prerequisites: ACC 2010, ECN 2720, and HSA 3750.

HSA 4910 Internship 3 s.h.

Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

History (HIS)

HIS 1010 World Problems (PSC) 3 s.h.

Analysis of the most significant contemporary world issues confronting the international community of nations and citizens of United States.

HIS 1090 Ancient and Medieval World 3 s.h.

World history from prehistoric times to c. 1500 C.E., including a study of the ancient and medieval civilizations of global culture realms.

HIS 2320 United States to 1900 3 s.h.

Political, social, economic, and cultural development of the United States; emphasis on the colonial period, the Civil War, and the rise of America to world power.

HIS 2760 Michigan History 3 s.h.

Significant people and events during Michigan's long history, including the roles of Native Americans, the French, the British, the Toledo War, Civil War, Michigan's economic growth, the Great Depression, the roles of labor and minorities, and the discussion of the several state constitutions.

HIS 3220 Race, Ethnicity, and Class in American Life 4 s.h.

Survey of historical and contemporary expressions, patterns, and consequences of intergroup tensions stemming from discrimination in American Life.

HIS 3310 Early Modern World: Age of Discovery and Revolution 3 s.h.

World history in the period of European global expansion from the formation of the Spanish and Portuguese Empires in the Sixteenth Century to the end of the Napoleonic Wars, including a study of politics, culture, ideas, and religions of Europe and the World.

HIS 3320 Modern World 3 s.h.

World history from 1789 C.E. to the present, including a study of modern global culture realms. Special attention is given to global crises and achievement, the Cold War and its aftermath, and global, political, and economic development.

HIS 3420 Minority Groups in America 3 s.h.

Conflict between the revolutionary ideals of the American dream and reality of majority-minority group relations from colonial America to the present.

HIS 3810 America Civil Rights Movement 3 s.h.

Study of the American Civil Rights Movement for African-Americans from the Second World War until the present. Various strategies for achieving social change are examined and assessed, with due attention to the contemporary roles of leaders and of ordinary Americans. Emphasis on the powerful and defining influences of religion and law in American responses to the value dilemmas related to social justice and social change.

HIS 4100 Special Problems in History 1-3 s.h. (max. 9 s.h.)

Study of selected topics of interest in History.

HIS 4210 Time and Literature (ENG*) 4 s.h. (max. 8 s.h.)

HIS 4320 Foreign Policy History of the United States 3 s.h.

Influence of foreign policy on past and present life of the United States; emphasis on the nation as a world power, taking into account the viewpoints of the international community of nations.

HIS 4520 Economic and Business History of the United States (ECN) 3 s.h.

Survey of major changes in the American economy, including transportation, industry, labor, finance, marketing, and environmental interactions. Role of private business and government in economic change.

HIS 4540 United States in the Modern Era 3 s.h.

Development of the United States as a world power and its impact on the social, economic, cultural, and political changes in the contemporary era.

HIS 4633 Global Studies: Modern Latin America (PSC) 3 s.h.

Study of selected historical and political problems and themes related to modern Latin America, with attention to regional and global relationships.

HIS 4635 Global Studies: Comparative History of Modern World Regions (PSC) 3 s.h.

Comparison of at least two of the following world regions: Africa, East Asia, Europe, Latin America, Middle East, South Asia, in terms of selected historical and political problems and themes. The course will focus on the modern period, as well as the origins of modern patterns, and the different paths to modernity in the regions chosen.

Hospice and Palliative Studies (HSP)

HSP 2210 Introduction to Palliative/End-of-Life Care Concepts 3 s.h.

Examination of the history of the hospice movement and the evolution of Palliative/End-of-life (EOL) Care. Introduces core concepts of hospice philosophy, emphasizing its humanistic nature, family focus, and interdisciplinary and holistic practice. *It is strongly recommended that students take this course as the prerequisite to all other hospice courses.*

HSP 3310 Management of the Bereavement Process 3 s.h.

The foundations of the bereavement process following the loss of a significant person. An examination of stage theories and key concepts that describe the grief continuum and personal transformation through the process of grief. Cultural attitudes and myths regarding loss and bereavement are examined in the context of gender, ethnicity, age, and circumstances of death. Personal reflections on loss and bereavement are encouraged throughout.

HSP 3480 Psychosocial Domains of Palliative/End-of-Life Care (PSY) 3 s.h.

Exploration of the psychosocial domains of assessment across the life span of individuals and families in palliative/End-of-Life (EOL) care. Developing strategies for facilitating holistic care to patients and families. Effective communication skills for cultural competence. The impact of stress on the quality of life for the patient, family, and transdisciplinary team.

HSP 3500 Spiritual and Ethical Considerations in Palliative/End-of-Life Care 3 s.h.

Examines dying as potentially the last stage of human development and spiritual growth. Explores spirituality and enhances religious literacy through identification of the salient beliefs and practices regarding illness, dying, death, and burial rituals of major world religions. Discusses choices at end of life with advanced care planning and applies ethical theories, principles, and steps that guide decision making for individuals, families, and caregivers in Palliative/End-of-Life (EOL) care.

HSP 3802 Palliative/End-of-Life Issues: A Lourdes Experience (RST) 3 s.h.

Examines suffering and dying as the last stage of human development and spiritual growth. Distinguishes care needs around palliative/EOL issues. Moral and religious dimensions influencing decision making in palliative/EOL care are explored. Course combines on-campus study of end-of-life concerns with an academic service-learning experience at the Lourdes Sanctuary in France.

HSP 4750 Emerging Issues in Palliative/End-of-Life Care 3 s.h.

Current issues and emerging trends within the Palliative/End-of-Life (EOL) continuum. Examination of access and barriers to EOL care and the role of health care leaders, policy makers, and key stakeholders in developing strategies for delivery of timely quality care and financing mechanisms. Exploration of beliefs, values, and practices that shape decision making regarding dying, death, and burial rituals.

Humanities (HUM)

HUM 2020 Humanities Through the Arts 4 s.h.

Telecourse introduction to artistic expression in the arts and humanities areas of: architecture, art history, drama, literature, music, painting, photography, and sculpture. Videotapes and texts, blended with monthly class sessions and writing projects.

HUM 2040 Expressive Thinking in the Arts and Humanities 3 s.h.

Course provides a lively, engaging introduction to the study of art, history, literature, and music. Students learn to interpret human expression across these four creative areas of the humanities.

HUM 2050 Languages Across Millennia and Civilizations 3 s.h.

A historical survey of world languages and writing systems from antiquity to modern times with a focus on their pivotal role in creating human societies. An emphasis is given to their interplay with the development of cultures, religions, and other aspects of civilizations.

HUM 3030 American Culture through Literature, Music, and Art 3 s.h.

An introduction to the distinguishing features of American culture as embodied in the arts. The approach is thematic, covering, among other topics, the role of religion in American intellectual and artistic life, the deep-seated democratic tendencies of the American people, individualism and the experience of immigrants to the United States. The themes are illustrated in a historical context with appropriate examples drawn from American literature, music, and art. *Enrollment limited to international students in specific programs.*

HUM 3050 The Idea of Justice 4 s.h.

An interdisciplinary study of justice based on an analysis of humanities texts from a variety of discourse communities in order to develop an appreciation of diverse concepts and expressions of justice.

HUM 3080 The Nature and Scope of Inquiry 3-4 s.h.

Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems, or dilemmas of contemporary life. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of Madonna University.

HUM 3090 Holocaust: Issues and Themes in the Genocide of European Jewry 4 s.h.

Examination of the social and political forces and actions that enabled the Nazi regime to plan and carry out the systematic extermination of European Jewry. Analysis of the Nazi genocidal agenda, utilizing materials from history, literature, film, music, and the fine arts. An overview of the roots of anti-Semitism and of how a modern authoritarian regime employed historic stereotypes and prejudices in effectively enlisting a majority of its citizens in active or passive criminal complicity. Examination of the institutions of mass murder, the silence of church and state, and despite this silence, the forces of resistance. Prerequisite: Junior standing.

HUM 3210 Do Animals Matter? 3 s.h.

Examination of ethical, cultural, aesthetic, and societal conceptualizations of animals and their impact on human-animal relations as well as on uses, treatment, and legal standing of animals. Issues are discussed through the lenses of humanities and social sciences within the framework of the Franciscan tradition. This course includes an academic service-learning project.

HUM 3410 Sustainability: Vision and Values (RST/SOC) 3 s.h.

Interdisciplinary overview of the concepts of sustainability, including its origins in spiritual traditions and its environmental, social, and economic dimensions. Allows for individualized exploration of topics such as food systems, climate, public policy, renewable energy, and green building

HUM 4300 Humane Studies (SOC) 3 s.h.

An exploration of the interface between social justice, animal welfare, and environmental protection through the lenses of humanities and social sciences. Current issues are discussed within the framework of the Franciscan tradition.

International Business (INB)

INB 3140 International Business 3 s.h.

Foundational knowledge of the current forces influencing the conduct of international business, including cultural, political, legal, and economic forces. Exploration of market entry strategies, trade and trade agreements, international monetary system, business finance, and organizational design and management considerations.

INB 4350 International Trade Structures and Systems 3 s.h.

An examination of current theories and patterns of international trade and finance, including an exploration of the history, institutional framework, and structural patterns of international trade, and an analysis of exchange rate determination theories and balance of payment drivers. Prerequisites: ECN 2720, ECN 2730, and INB 3140.

INB 4450 International Management 3 s.h.

Study of international management as a function of a nation's international trade practices, policies, and management systems and expectations. Prerequisites: INB 3140 and MGT 2360.

INB 4500 International Business and Culture Experience 1-3 s.h. (max. 3 s.h.)

Students work with an advisor to select a country of travel, establish learning objectives, and develop guidelines to write a paper.

INB 4550 Advanced Analysis in International Business 3 s.h.

Work with an organization interested in becoming engaged in international business as it is identifying a suitable opportunity and assessing potential risks and benefits. *Taken during the last semester of the degree program.*

INB 4730 Research Seminar 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

INB 4730 Research Seminar

INB 4910 Internship 3 s.h.

Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

International Studies (INT)

INT 2100 International Studies Foundations 1 s.h.
Through a series of readings, discussions, and lectures, students explore the dimensions of internationalization, and are exposed to a variety of international learning opportunities related to the overall plans of study; readings drawn from interdisciplinary sources.

INT 4950 International Studies Seminar 3 s.h.
Theme-based, culminating seminar affording students the opportunity to analyze and understand specific complex global issues and trends from multidisciplinary, cross-cultural, and comparative perspectives.

Information Technology Management (ITM)

ITM 2500 Introduction to Information Technology Systems 3 s.h.
This course will introduce the students to the fundamentals of the field and teach them a range of valuable professional skills, including how to set up operating systems, how to troubleshoot problems, and how to build a computer. By the end of this course, students will be prepared to take the next steps in IT and start solving technology problems.

ITM 2550 Networking Technologies and Telecommunications 3 s.h.
This course will teach students how networks work, and how to set up and secure them. By the end of this course, students will be able to manage and maintain a range of different network types. Prerequisite: ITM 2500.

ITM 3100 Operating Systems and Architecture 3 s.h.
This course will teach students the fundamentals of Operating System structure, function, and architecture, and prepare you to administer both Windows and Linux-based systems. Prerequisite: ITM 2500.

ITM 3150 Information Security and Data Protections 3 s.h.
This course will teach students how to help defend against this constant assault and keep valuable information and critical systems safe. Prerequisites: ITM 2500 and ITM 2550.

Journalism and Public Relations (JRN)

JRN 1010 Survey of Broadcast, Film, and Digital Media (BCA*) 3 s.h.

JRN 1320 News Reporting (WRT) 3 s.h.
Organization of the modern news organization; news values and news sources; structure of the news story; practical training in gathering and writing news stories for print and digital distribution.

JRN 1710 Graphic Design I (GDA*) 3 s.h.

JRN 2050 Public Relations Writing 3 s.h.
Acquaints student with functions of public relations in our society and explains basic theories and principles in publicity writing and placement.

JRN 2100 Media Relations in Sport (SM*) 3 s.h.

JRN 2610 Television Production I (BCA*/COM) 3 s.h.

JRN 2810 Field Production and Editing I (BCA*) 3 s.h.

JRN 2860 Editorial Writing and Feature Writing 3 s.h.
Study of feature and opinion writing strategies; principles and ethics for print and digital media; the means of persuasion; nature, structure, and function of editorial and opinion articles. Prerequisite: JRN 1320 or departmental approval.

JRN 2910, 2920 Journalism/Public Relations Practicum/Cooperative Education 1-4 s.h. each

JRN 3030 Writing for Radio, TV, and Film (BCA*) 3 s.h.

JRN 3130 Photography I (ART) 3 s.h.
Basic digital photography; principles of light, lenses, and composition; participation in all phases of digital work flow from initial composition to final image. *Required for students seeking teacher certification with a Journalism minor.*

JRN 3140 Photography II (ART) 3 s.h.
Further exploration of photography including digital and chemical-based imaging. Digital and chemical printing, negative development, archival and fine art black-and-white printing. Class culminates with a portfolio project in either print or digital media. Prerequisite: JRN 3130.

JRN 3150 Photoshop (GDA*/BCA) 3 s.h.

JRN 3160 News Production 2 s.h.
Techniques and hands-on experience of covering beats, digging out stories, writing stories, and validating facts under pressure of deadlines through working on the school publication. Prerequisites: JRN 1320 and JRN 2860; or departmental approval.

JRN 3570 Editing and Design 3 s.h.
Principles of editing, headline writing, page design, use of graphics in print and digital publications. May include an academic service-learning experience. Prerequisites: JRN 1320 or department approval.

JRN 3610 Television Production II (BCA*/COM) 3 s.h.

JRN 3750 Television News Reporting and Production (BCA*) 3 s.h.

JRN 3910, 3920 Journalism/Public Relations Practicum/Cooperative Education 1-4 s.h. ea.
On-campus or on-the-job experience in publications, publicity, or promotion work. One or more cooperative education experiences may substitute for the practicum. Prerequisite: JRN 1320, JRN 2860, and JRN 3570; or departmental approval.

JRN 4010 Mass Communication (BCA/COM) 3 s.h.
Theory of behavior in communication in general and the mass media in particular. The design and evaluation of public opinion studies and research topics in communications with emphasis on the effects that the various media have had on consumers.

JRN 4050 Advanced Public Relations 3 s.h.
Development of a variety of public relations projects for internal and external audiences, including publicity

generation, media relations, on-line and print publication, creation, press releases, media kits, and crisis communication. Discussion of public relations strategies and tactics, case studies, and ethical decision-making. Prerequisite: JRN 2050 or departmental approval.

JRN 4160 Advanced News Production 2 s.h.
Writing opinion pieces; selecting stories and graphics; composing captions and headlines; designing print and online pages within constraints of news hole and budget; editing the school publication under actual deadline conditions. Prerequisite: JRN 1320, JRN 3160, and JRN 3570; or departmental approval.

JRN 4630 Directing and Producing for Television (BCA*) 3 s.h.

JRN 3820 Field Production and Editing II (BCA*) 3 s.h.

JRN 4750 Special Topics in Journalism/Public Relations 1 s.h. (max. 3 s.h.)

A specialized course dealing with a particular aspect of the journalism/public relations field. Topics vary by semester. The course examines contemporary topics and explores how media professionals respond to these issues. *Journalism/Public Relations majors are required to take JRN 4750 once and may take the course two additional times, provided the content is distinct.*

JRN 4910, 4920 Journalism/Public Relations/Practicum/Cooperative Education 1-4 s.h. each

Legal Assistant

See listings under Paralegal Studies (LAW).

Management (MGT)

MGT 2360 Principles of Management 3 s.h.
An introduction to the nature and principles of management; history, theories, practices, problems, and techniques; characteristics and qualities of managers; contemporary trends in management thought and practice.

MGT 3020 Organizational Behavior 3 s.h.
Analysis of group and individual behavior in the organization; analysis of social structures which affect management policies and procedures. Prerequisite: MGT 2360.

MGT 3100 Strategic Human Resources Planning 3 s.h.
Analysis of personnel functions, job and manpower requirements, techniques for recruitment and hiring, job analysis techniques; compensation process; collective bargaining process. Prerequisites: MGT 2360.

MGT 3260 Human Behavior and Leadership 3 s.h.
Leadership and its relationship to theory, style, time management, problem solving, personal power, team building, and self-assessment. Self-assessment instruments, discussion, films, case studies, in-basket exercise, leaderless group problem-solving exercise, peer interview, assessments, and team development are integrated to provide a better understanding of leadership and of human behavior as it relates to leadership.

MGT 3270 Human Resources Training and Development 3 s.h.
Processes involved in retaining and developing the human resources of any organization; includes learning theory and its pathing and consulting techniques. Prerequisite: MGT 3020.

MGT 3690 Entrepreneurship 3 s.h.
A study of the entrepreneur and the entrepreneurial spirit in business and the financial, organizational, and personal influences which combine to create a flow of new ideas, new markets, new products, and new technology. Applications of business research techniques for assisting local business owners and operators in analyzing their operations and practices. Prerequisites: ACC 2010, MGT 2360, and MKT 2440.

MGT 4220 Human Resources Selection, Tests, and Measurements 3 s.h.
Study of occupational/attitudinal surveying, testing, and evaluation: studies of validity, reliability, internal/external designs, item analysis, factor analysis, quantitative and qualitative analytical approaches. Course work includes measurement and development of instrumentation as applied to business-related issues. Students design and implement an original instrument applicable to either the private or public sector. Prerequisites: MGT 2360 and QS 2500.

MGT 4350 Compensation 3 s.h.
The development, validation, implementation issues associated with a wage-and-salary program. Topics include: market position, pay range development and validation, market surveying, and implementation techniques and issues. The technical, legal, and moral issues involved in fringe benefit planning implementation, and administration. Prerequisites: FIN 3150.

MGT 4740 Seminars 1-3 s.h. (max. 4 s.h.)
Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total 4 s.h. of seminars.

MGT 4740 General Topic Seminar 1-3 s.h.

MGT 4910 Internship 3 s.h.
Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

MGT 4950 Business Policy 3 s.h.
Integrates all the various disciplines of business administration utilizing a case study approach. Students are expected to have completed all required course work in business administration prior to taking this course to be able to analyze central problems of for- and not-for-profit enterprises and to apply strategic management to develop business policy.

Management Information Systems (MIS)

MIS 1010 Introduction to Excel 1 s.h.
Learn the basic features of Excel by exploring the software in a hands-on environment, A general overview of how to create and manipulate spreadsheets.

MIS 1110 Intermediate Excel 1 s.h.
An intermediate level course that explores in detail the advanced functions of Excel. Practical application of data analysis using conditional logical formulas.

MIS 2390 Emerging Trends in Computer Technology and Applications 3 s.h.

The course will introduce emerging technologies that have the potential to transform society, including the latest design trends such as quantitative reason and 3D Design and printing. Digital artifacts will be developed using techniques from the emerging technology explored during the course. An analysis of how organizations can exploit emerging technologies for competitive advantage.

MIS 2400 Principles of Management Information Systems 3 s.h.

The value of information technology to business and the contribution technology can make to the strategic goals of an organization. Technical foundation concepts such as networks, hardware, and software. Case studies are used to illustrate concepts. Hands-on exercise using industry-standard software are included.

MIS 2500 Database Design and Management 3 s.h.

Examination of database design and management concepts within the framework of business applications. Focus is on the relational database model with supplemental information on developing technologies. Provides a strong theoretical foundation covering both logical and physical database design strategies. Develops an awareness of database management issues such as data security and transaction management. Students implement project solution using industry standard relational database management system software. Prerequisite: MIS 2400.

MIS 2700 Systems Analysis and Design 3 s.h.

An overview of the concepts, skills, methodologies, and tools necessary for systems analysts to successfully develop information systems. The systems development life cycle is examined within the context of business applications. Students learn to translate business requirements into information systems that support business objectives. Hands-on experience with industry standard software. Prerequisite: MIS 2400.

MIS 2850 Web Design for Business Applications 3 s.h.

Study of the evolution, design, development of Internet web sites. An introduction to HTML coding and the use of GUI software for the development and maintenance of web sites and web pages. Investigation and determination of what constitutes an acceptable web site.

MIS 2950 Network Essentials and Data Communications 3 s.h.

Analysis of data communications systems for business. Considers distributed processing, network terminology, protocols, standards, topologies, and management issues. Students are required to demonstrate network concepts with practical applications. Prerequisite: MIS 2400.

MIS 3300 Information Systems for Decision Making 3 s.h.

Presents the fundamental concepts of information systems. Emphasis on the process by which computer systems are developed from the end users' perspective. Problem solving using computer based information systems. Analyzing existing information systems by way of case study methodology. Prerequisite: CIS 2380.

MIS 3350 Health Care Informatics 2-3 s.h.

Introducing applications of informatics systems to health care practitioners. Health care informatics issues covering hardware, software, databases, communications applications, computer developments, and associated legal and ethical issues are explored. How health care providers can assess, develop, and use information systems to work

more efficiently, allocate resources more effectively, and improve client care. Hands-on experience with industry standard software are required of those registered for 3 s.h.

MIS 3440 Information Security 3 s.h.

The requirement of organization managers to safeguard both electronic and non-electronic information and data; an understanding of the threats to information security to which organizations are exposed; and effective strategies for minimizing their effects. Topics such as risk assessment and management, human factors, compliance with regulations, and ethical considerations are discussed. Prerequisite: CIS 2380.

MIS 3460 e-Commerce Information Technology 3 s.h.

An introduction and investigation of establishing, developing, and managing Web strategy in the e-commerce area, studying the critical elements essential to successful website implementation and management. Application of the systems approach to examine some of the new business models emerging from web-based business. Prerequisite: CIS 2380.

MIS 3470 Health Care Data Analytics 3 s.h.

The intersection of clinical informatics, data analytics, and population health informatics. Data mining and visualization tools used to discover meaning from datasets to guide the improvement of health outcomes and current clinical practice standards. Prerequisite: MIS 2400; prerequisite or corequisite: MIS 2700.

MIS 3700 Information Systems Project Management 3 s.h.

Study of the strategies and tools useful in the management of information systems projects. The processes and issues involved in formulating a project, including development of scope, design options, integration with other projects, and development of project plans. The effects of staffing, budget, schedule, and risk management on the project's outcomes. Examples highlight the hands-on skills and solutions required. Industry standard software is used to implement case study solutions. Prerequisites: MGT 2360 and MIS 2700.

MIS 4500 Advanced Database Concepts 3 s.h.

Exploration of advanced topics in database design and examination of the implications of new technologies for 21st century business. The business applications of data warehousing and data mining technologies and their effect on business information systems and decision making. Developing a theoretical foundation for understanding the emerging methodologies, such as object-oriented database systems and object-relational database systems, and their implications for business development.

MIS 4740 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

MIS 4740 General Topic Seminar 1-3 s.h.

Marketing (MKT)

MKT 2440 Principles of Marketing 3 s.h.

Study of marketing concepts, terminology, and applications, with special emphasis on the marketing mix relationships: e.g., product, price, promotion, and distribution. Introduction to the role and operation of marketing functions and their respective influence on the organization, both internally and externally.

MKT 3100 Professional Selling 3 s.h.

The study and application of professional selling theory and technique as they relate to marketing communication. Other topics include types of selling situations, customer relationship management, teleselling, customer service, ethical issues of selling, and sales management. Prerequisite: MKT 2440.

MKT 3300 Sport Marketing (SM*) 3 s.h.**MKT 3310 Social Media Marketing 3 s.h.**

Study of social media networks and other media as they pertain to promotion, digital and mobile marketing, and the organization's integrated marketing communications strategy. Topics include: the characteristics of social, broadcast, electronic and outside media; viral marketing; digital marketing; mobile marketing; message creation for various media; evaluating message and media effectiveness; and the creation of an integrated marketing communications campaign. Prerequisite: MKT 2440.

MKT 3550 Consumer Behavior (NFS) 3 s.h.

The study of the impact of consumer behavior (based on psychological and social forces) on the market. Analysis of the buying decision process and how it is affected by advertising, public relations, and the mass media. Emphasis on consumer-oriented legislation. Prerequisite: MKT 2440.

MKT 3730 Principles of Advertising 3 s.h.

Intended for students with career plans in advertising and related fields. Emphasis on application of theory and strategies. Students develop and apply marketing and creative skills in analyzing advertising problems and preparing advertisement concepts for consumer and business marketing. Examination of the strategic, practical, and ethical dimensions of advertising through applications.

MKT 3870 Sales Management 3 s.h.

Introduction to organization and direction of sales programs, involving personal selling activities and integration of sales efforts with other marketing elements of the firm, implementation of sales programs, selection of appropriate sales personnel, designing and implementing sales policies and procedures, evaluation and control of sales force performance. Prerequisites: MKT 2440 and MGT 2360.

MKT 3880 Professional Selling and Sales Management 3 s.h.

Study of professional selling theory and technique and the role and functions of sales managers in managing a sales force. Emphasis is placed on applying these selling techniques in role playing situations. Other topics include customer relationship management, ethical issues of selling, sales analytics and the sales management functions of recruiting, selecting, training, motivating, leading, and evaluating the sales force. Prerequisite: MKT 2440.

MKT 4230 Marketing Research 3 s.h.

Study of both consumer and industrial marketing research, covering areas of problem definition, survey design, sampling questionnaires, data collection, quantitative and qualitative analysis, graphics design, and report writing/presenting. A high level of analytical expertise is required: students complete an original market research study and offer a formal presentation. Prerequisites: MKT 2440 and QS 2500.

MKT 4500 Global Brand Management 3 s.h.

Provides insight into strategic brand management as related to consumer products and services. An understanding of the

key issues in building and maintaining brands is explored. Participation in a project involving brand positioning, strategic brand management, brand loyalty, and branding strategies.

MKT 4560 Marketing Management 3 s.h.

Strategic and decision-making aspects of marketing functions globally. The analysis, coordination, and execution of marketing programs is explored. Development of a marketing plan and analysis of pricing, placing, promoting and physical distribution of products and services to target markets. Prerequisite: senior status.

MKT 4740 Seminars 1-3 s.h. (max. 4 s.h.)

Prerequisites for all seminars: Junior level or full-time work experience. Students are limited to a total of 4 s.h. of seminars.

MKT 4740 General Topic Seminar 1-3 s.h.**MKT 4910 Internship 3 s.h.**

Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

Mathematics (MTH)**MTH 1040 Introduction to Algebra 4 s.h.**

Topics include order of operations, variable expressions, linear equations and inequalities in one variable, exponents, polynomial arithmetic, factoring, graphing and analyzing linear functions, radical and rational expressions, quadratic equations; applications and problem-solving. *This course does not satisfy Core Curriculum requirements and does not apply toward a mathematics major or minor.*

MTH 1050 College Algebra 4 s.h.

Topics include linear and nonlinear systems of equations, complex numbers, analyzing polynomial, rational, exponential and logarithmic functions, sequences and series, and counting principles; applications and problem-solving. Prerequisite: MTH 1040 or placement based on the mathematics sub-score of the SAT/ACT standardized test or departmental placement exam. *This course does not apply toward a mathematics major or minor.*

MTH 1060 Trigonometry 3 s.h.

Study of trigonometric functions, their properties, inverses and graphs; trigonometric ratios, the solutions of triangles; basic identities; the sum and difference formulas; trigonometric equations. Geometric vectors and operations with complex numbers are introduced. Prerequisite: MTH 1050 or equivalent. *Does not apply toward mathematics major or minor.*

MTH 1150 Contemporary Mathematics 3 s.h.

Designed to develop an understanding of and appreciation for the history, techniques, and applications of mathematics. Focus on a variety of real-world problems that can be solved by quantitative methods. Topics are selected from different branches of mathematics in order to bring the excitement of contemporary mathematical thinking to the non-specialist. Prerequisite: 1 year of high school algebra, or equivalent.

MTH 1210 Precalculus 5 s.h.

Topics include functions, zeros of polynomials, rational, exponential and logarithmic functions, trigonometric functions, complex numbers, analytic geometry and conic sections; applications and problem-solving. Prerequisite: MTH

1050 or placement based on the mathematics sub-score of the SAT/ACT standardized test.

MTH 2330 Learning and Teaching Number Concepts (EDU) 3 s.h.

Understanding and use of the underlying principles of key mathematical concepts to solve problems. Focus on number sense and numeration, whole number operations, fractions and decimals, computational algorithms, patterns, relations, functions, and informal algebra. Focus on the use of materials, activities, and strategies appropriate to teaching school mathematics. Prerequisite: placement test or MTH 1040.

MTH 2340 Learning and Teaching Geometric and Statistical Concepts (EDU) 3 s.h.

Understanding and use of key mathematical concepts to solve problems. Focus on mathematical logic; properties of two- and three-dimensional geometric figures; similarity and congruence; motion geometry; common and metric measurement; statistical methods to describe, analyze, and use data; and probability applied in everyday life. Focus on using materials, activities, and strategies appropriate to teaching school mathematics are used. Prerequisite: MTH 2330.

MTH 2350 Probability and Statistics 4 s.h.

Topics include data collection and graphic presentation; measures of central tendency; measures of dispersion; normal and binomial distributions; regression and correlation; sampling methods; design of experiments; probability and simulation; sampling distributions; statistical inference including confidence intervals and hypothesis testing for one-sample and two-sample problems; chi-square distribution and test of significance; ANOVA. Prerequisite: MTH 1040 or placement based on the mathematics sub-score of the SAT/ACT standardized test or departmental placement exam.

MTH 2460 Discrete Mathematics 4 s.h.

Mathematical logic, sets, functions, mathematical induction, recursion, combinatorics, probability, relations, graph theory, trees, and Boolean algebra. Prerequisite: MTH 1050.

MTH 2510 Calculus with Analytic Geometry I 5 s.h.

Topics include a study of limits, continuity, derivatives of algebraic and transcendental functions, applications of derivatives, integrals, and the Fundamental Theorem of Calculus. Prerequisite: MTH 1210 or placement based on the mathematics sub-score of the SAT/ACT standardized test.

MTH 2520 Calculus with Analytic Geometry II 4 s.h.

Topics include a study of methods of integration, applications of integrals, sequences, series and power series, parametric curves, and polar coordinates. Prerequisite: MTH 2510.

MTH 2530 Differential Equations 3 s.h.

Solution techniques and applications of first-order differential equations, higher-order linear differential equations, Laplace transforms, and linear systems. Prerequisite: MTH 2520.

MTH 3300 Abstract Algebra 3 s.h.

Topics include groups, subgroups, isomorphism, cosets and Lagrange's Theorem, group homomorphisms, rings, and integral domains. Prerequisite: MTH 2460.

MTH 3330 Algebraic Thinking and Proportional Reasoning 4 s.h.

Focus on building algebraic thinking through examination of patterns and relationships, logic, and functions, as well as developing appropriate symbolic forms to represent and

analyze mathematical situations and structures. Multiple representations and the interrelationships of these representations are stressed. Attention given to developing proportional reasoning by investigating number theory, ratio and proportion, and decimals and percents as extensions of the whole number system. Prerequisite: MTH 2330 and MTH 1210

MTH 3340 Geometry for Teachers 4 s.h.

Introduction to a variety of materials, activities, and physical models and manipulatives, and dynamic software as learning tools. Focus on analyzing characteristics and properties of two- and three- dimensional geometric objects and their measurement using different representational systems, recognizing the usefulness of transformations and symmetry in analyzing mathematical situations, and using visualization and spatial reasoning to solve problems both within and outside mathematics. Prerequisite: MTH 2330.

MTH 3410 Linear Algebra 3 s.h.

Use of multiple representations of linearity, solution of systems of linear equations, organizing data using matrices, performing matrix operations, using determinants, study of algebraic and geometric structures of vector spaces, recognizing subspaces and spanning sets, finding eigenvectors and eigenvalues, using technology to explore ideas, developing logical proofs, and applying concepts to real-life situations. Prerequisite: MTH 2460.

MTH 3510 Calculus with Analytic Geometry III 4 s.h.

A study of vectors, vector-valued functions, differential calculus of functions of several variables and applications, multiple integrals, vector fields, and line and surface integrals. Prerequisite: MTH 2520.

MTH 4330 Reasoning and Proof in the Mathematics Classroom 2 s.h.

Engage preservice and in-service teachers in mathematical reasoning and proof. Emphasis on making and investigating mathematical conjectures, developing and evaluating mathematical arguments and proofs, selecting and using various types of reasoning and methods of proof. Grade-appropriate ways to foster systematic thinking, conjecturing, and marshaling of evidence are also explored. Prerequisite: MTH 1210 and MTH 3330.

MTH 4340 Technology in the Mathematics Classroom 2 s.h.

Focus on the appropriate use of electronic technologies to help teach mathematics. Calculators, graphers and computers are used in a laboratory setting to investigate patterns; test conjectures; explore and analyze data, connect numerical, symbolic, and graphical representations; visualize geometric concepts; and investigate and solve real-world problems. Hands-on experience using and evaluating Internet resources appropriate for use in a mathematics classroom. Prerequisite: MTH 2330.

MTH 4510 Introduction to Real Analysis 3 s.h.

Logic, set theory, methods of mathematical proof, relations and functions, cardinality and study of the properties of the real number system. Emphasis is on rigorous proofs of mathematical statements. Prerequisites: MTH 2460.

MTH 4650 Foundations of College Geometry 3 s.h.

To broaden the understanding of Euclidean geometry; study finite geometries, geometric transformations and non-Euclidean geometries; write geometric proofs; apply geometric concepts to real-world situations; and explore

geometric concepts and relationships using interactive software. Prerequisite: MTH 2460

MTH 4950 Senior Seminar 2 s.h.
Designed to help students develop oral and written communication within the context of the mathematics major. An essential component of the course is the preparation and presentation of a research paper. *Taken by mathematics students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

MTH 4960 Senior Seminar: Social Contexts in Mathematics Education 2 s.h.
Students seeking mathematics teacher certification in the 7-12 grade band research and discuss issues and evolving practice related to the teaching and learning of mathematics. Research will focus on the social contexts of mathematics teaching and learning; examining issues related to access, equity, and empowerment from a current and historical perspective. Prerequisite: senior status

Medical Laboratory Science (MLS)

MLS 4001 Professional Development I 1 s.h.
Introduces the student to the profession of medical laboratory science. The various professional, accrediting and certifying organizations are discussed. Students learn about the profession from experienced medical laboratory scientists. The past, present and future of the profession are discussed, including present and future trends in education and employment. Prerequisite: departmental permission.

MLS 4002 Professional Development II 1 s.h.
Students undertake a professional enrichment project and participate in laboratory science related community activities. The project involves the investigation of alternative sites in which medical laboratory scientists work, e.g., local clinics, health centers, nursing homes, research facilities, and various industrial firms. Community activities include making presentations to different groups and attending various local or national professional group association meetings. Prerequisite: MLS 4001.

MLS 4900 Introduction to Research Methods 1 s.h.
Quantitative and qualitative of research methods used in medical, scientific, and social sciences. Areas of discussion include: formulation of research hypothesis, literature review, statistical methods used, components of the IRB (institutional review board), and interpretation of published research findings in recognized peer reviewed journals.

Medical Technology (MTE)

MTE 1010 Medical Terminology 2 s.h.
Development of medical vocabulary with emphasis on anatomical terms, diseases, symptoms, treatments, and acceptable medical abbreviations.

MTE 1020 Medical Terminology 1 s.h.
An introduction to medical vocabulary with an emphasis on foundational work building with a focus on body systems through anatomical terms, diseases, symptoms, treatments and medical abbreviations.

MTE 2010 Introduction to Health Care Professions 2 s.h.
An investigation of the range of health care professions, including careers involving direct patient care, support services, and community-based services. The course is

designed to familiarize students with what it means to work as part of an interdisciplinary team, the ethical responsibilities of health care professionals, and types of communication in health care settings.

MTE 3050.00 Hematology I 2 s.h.
Introduction to clinical hematology with emphasis on identification and classification of red blood cells, white blood cells, and platelets in human disease. Focus on normal conditions and non pathological changes in human blood. Examination of the cellular elements found in blood as they pertain to the pathology of disease. Use of laboratory data in the diagnosis of hematological disorders. Prerequisites: BIO 2450.00.00, BIO 2450.LB, BIO 2460.00, BIO 2460.LB; recommended: BIO 3010.00, BIO 3010.LB Co-requisite: MTE 3050.LB.

MTE 3050.LB Hematology I Lab 1 s.h.
Development of entry level skills needed to perform commonly available Hematology diagnostic tests in a hospital laboratory. Prerequisite/Co-requisite: Completion or concurrent enrollment in MTE 3050.00.

MTE 3060 Hematology II 3 s.h.
Lecture course that focuses on specialized areas of clinical hematology, including advanced hemostasis, leukemia, including differentiations based on WHO and FAB classifications, and bodily fluids, with a focus on advanced theory, and current practice and methodologies. Core content topics include analysis and clinical interpretation. Prerequisite: MTE 3050.00 and MTE 3050.LB.

MTE 3070.00 Clinical Immunohematology 2 s.h.
Immunologic principles as they relate to the study of blood transfusion science for the medical laboratory scientist. Blood banking testing procedures in collection, testing, storing, and transfusing whole blood and its components are discussed. Prerequisite: BIO 3280.00, BIO 3280.LB. Co-requisite: MTE 3070.LB.

MTE 3070.LB Clinical Immunohematology Lab 1 s.h.
Development of entry level skills needed to perform commonly available Immunohematology diagnostic tests in a hospital laboratory. Laboratory practice in antibody/antigen ABO typing, Rh typing and compatibility testing. Prerequisite: BIO 3280.00, BIO 3280.LB. Co-requisite: MTE 3070.00.

MTE 3280 Clinical Immunology and Serology (BIO*) 4 s.h.

MTE 3640.00 Clinical Chemistry (CHM) 2 s.h.
Introduction to clinical chemistry topics focusing on acid base balance, carbohydrates, enzymes, proteins and non-nitrogen compounds. Areas of laboratory calculations and automation will also be covered. Students will be expected to apply concepts learned in organic chemistry and biochemistry to (laboratory) chemistry exercises. Co-requisite: MTE 3640.LB.

MTE 3640.LB Clinical Chemistry Lab (CHM) 1 s.h.
Development of entry level skills needed to perform commonly available chemistry diagnostic tests in a hospital laboratory. Co-requisite: MTE 3640.00.

MTE 3700 Clinical Laboratory Operations 2 s.h.
Concepts of laboratory management and supervision, including human resources, fiscal considerations, and quality measures. Regulatory issues facing health care organizations. Educational outcomes as they pertain to laboratory

continuing education are discussed and practiced.
Prerequisite: admission to 3000-level MTE courses.

MTE 4020 Parasitology, Mycology, and Virology (BIO) 3 s.h.
Provides clinical background in mycology, parasitology and virology. Students analyze disease characteristics and comprehend diagnostic medical laboratory procedures.
Prerequisites: BIO 2260.00, BIO 2260.LB.

MTE 4030.00 Medical Microbiology 2 s.h.
Focuses on the diagnostic procedures employed in the clinical bacteriology laboratory, such as specimen collection and the isolation and identification of medically important bacteria, parasites, molds, and yeasts. Mechanisms of antimicrobial activity and antibiotic susceptibility testing are analyzed.
Prerequisite: MTE 4020. Corequisite: MTE 4030.LB.

MTE 4030.LB Medical Microbiology Lab 2 s.h.
Development of entry level skills needed to perform commonly available microbiological diagnostic tests in a hospital laboratory. Laboratory activities will familiarize the student with the colony morphology of clinically important bacteria, molds, and yeasts. Students identify isolates, including the gram stain and various biochemical assays, and analyze disease characteristics and perform relevant diagnostic medical laboratory procedures. Co-requisite: MTE 4030.00.

MTE 4960 Senior Seminar and Practicum 2 s.h.
Comprehensive review of all major didactic content: hematology, hemostasis, body fluids, clinical chemistry, immunology, immunohematology, and medical microbiology. At the conclusion of the course, students take a comprehensive computerized examination modeled after the national board examination. Students must achieve passing scores on all sections of the comprehensive examination in order to complete the course. Prerequisites: senior standing and program director approval; to be taken in the final six hours of the program. *Remediation will be available to students who do not achieve a 70% success rate. Content area may be repeated until 70% competency is reached.*

Merchandising and Retail Management (MRM)

MRM 3550 Consumer Behavior (NFS) 3 s.h.

MRM 3650 Market Field Study 2 s.h.
An in-depth study of a wholesale market district emphasizing history, creation, production, and distribution of consumer goods. On-site visit for a three-to-five day period.

MRM 3750 Human Shelter and Environment (FCS*) 4 s.h.

Military - Military Science and Leadership (MSL)

Military courses are only for students enrolled in local-area Reserve Officer Training Corps (ROTC) programs.

MSL 1010 Introduction to the Army 3 s.h.

Introduces students to the U.S. Army, and the critical issues, leadership skills, and competencies used by a commissioned officer. Includes physical fitness training.

MSL 1020 Foundations of Agile and Adaptive Leadership 3 s.h.

Introduces principles of effective leadership. Includes physical fitness and time management training. Prerequisite: MSL 1010.

MSL 1030 Officer Foundations and Basic Leadership 3 s.h.
A combination of MSL 1010 and MSL 1020. Designed for students who begin the program during the summer semester to allow for transition into MSL 2010 in the fall.

MSL 2010 Leadership and Decision Making 3 s.h.
Focus on successful military leadership through observation of others and self-reflection. Participate in discussions of the moral dimensions of conflict and ethical reasoning and situational ethics. Includes physical fitness training. Prerequisite: MSL 1010 and MSL 1020, or MSL 1030.

MSL 2020 Army Doctrine and Team Development 3 s.h.
Examines the development of a successful team. Includes the study of the philosophy of ethics and military service, the law of land warfare, and codes of conduct. Includes physical fitness training. Prerequisite: MSL 2010.

MSL 3010 Training Management and the Warfighting Functions 3 s.h.
Students participate in exercises and self-assessment related to leadership, personal fitness, and tactical training. Direct feedback of performance is provided. Includes physical fitness training. Prerequisite: MSL 2020.

MSL 3020 Applied Leadership in Small Unit Operations 3 s.h.
Examines the use of motivational and influential techniques, managing conflict, and counseling exercises. Includes instruction in squadron and platoon operations and fire operations. Includes physical fitness training. Prerequisite: MSL 3010.

MSL 4010 The Army Officer 3 s.h.
Practical applications in planning and executing complex operations. Examines the role of the officer, including mentoring subordinates. Includes physical fitness training. Prerequisite: MSL 3020.

MSL 4020 Company Grade Leadership 3 s.h.
Analysis of, and practical exercises in, military law, leadership, and ethical command. Designed to transition the student/cadet to service in the Army or for government service. Includes physical fitness training. Prerequisite: MSL 4010.

Music (MUS)

See also Music/Applied (MUAP)

MUS 1005 Fundamentals of Music 2 s.h.
Designed for the non-music major, this course is for those without extensive formal music training (e.g., self-taught) or those whose musical learning experiences were primarily aurally based (e.g., learning music by ear). Introduction to the visual symbols and terminology of music notation and links them to aural understandings of music. Prior knowledge of music notation and music theory not required.

MUS 1130 Theory I	3 s.h.	Fundamental harmonic, rhythmic, and melodic practices of the 18 th and 19 th centuries, including major and minor keys, intervals, cadences, primary triads in root and inverted positions, through an integrated visual/aural/compositional approach. Must be taken concurrently with MUS 1140.
MUS 1140 Sight-singing and Ear Training I	1 s.h.	Basic aural, visual, and vocal experiences in dictation and singing at sight; includes major and minor scalar and diatonic chordal outlines, rhythms in simple meter, and major and minor triads. Must be taken concurrently with MUS 1130.
MUS 1330 Theory II	3 s.h.	Continuation of Theory I, including secondary, diminished, augmented triads, non-chord tones, melodic composition, and secondary dominants, through an integrated visual/aural/compositional approach. Must be taken concurrently with MUS 1340.
MUS 1340 Sight-singing and Ear Training II	1 s.h.	Continuation of basic aural, visual, and vocal experiences in dictation and singing at sight; includes melodies constructed of primary triads, rhythms in compound meter, and major, minor, and diminished triads in inversion. Must be taken concurrently with MUS 1330.
MUS 1800 Introduction to Music Technology	2 s.h.	Includes basic computer operations, study of hardware (including MIDI) and software for aural skill study, music notation and scoring, and music instruction. Basic knowledge of music fundamentals, piano keyboard, and personal computers is recommended.
MUS 2020 Music Through the Ages	3 s.h.	Introduction to music designed especially for the non-musician to increase understanding and enjoyment of music through intelligent listening habits. Includes music literature together with life and thought during major historical eras; contemporary composers and new trends. <i>General education course for non-majors; credits do not apply to music majors.</i>
MUS 2030 Musical Encounters	3 s.h.	An introductory course in music based on the study of compositional principles, such as melody, harmony, rhythm, texture, and form, as applied to major works of art music and twentieth century American music. <i>General education course for non-majors; credits do not apply to music majors.</i>
MUS 2130 Theory III	3 s.h.	Continuation of Theory II, including fundamental harmonic, rhythmic, and melodic practices of the 18 th and 19 th centuries, including secondary chords, modulation, mode mixture, through an aural/visual/compositional approach. Must be taken concurrently with MUS 2140.
MUS 2140 Sight-singing and Ear Training III	1 s.h.	A continuation of aural, visual, and vocal experiences in sight singing and dictation; includes modulations to closely related keys, compound intervals, rhythmic subdivisions, chromatic chords. Must be taken concurrently with MUS 2130.
MUS 2330 Theory IV	3 s.h.	Continuation of Theory III, including fundamental harmonic and melodic practices of the 18 th , 19 th , 20 th , and 21 st centuries through an integrated visual/aural/compositional approach. Must be taken concurrently with MUS 2340.
MUS 2340 Sight-singing and Ear Training IV	1 s.h.	A continuation of Sight-singing and Ear Training III; includes the study of unusual and mixed meters, syncopation, chromatic inflection, remote modulation, and modal scales. Must be taken concurrently with MUS 2330.
MUS 3090 Music for the Classroom Teacher (EDU)	2 s.h.	Development of the basic knowledge of the melodic, rhythmic, and harmonic elements of music; introductory experiences in reading and playing music using the autoharp, guitar, piano, and recorder. The course is particularly designed for but not limited to, the elementary school teacher. Prerequisite: EDU 2000.
MUS 3110 Diction 1: English and Italian	1 s.h.	The basics of English and Italian lyric diction, designed for singers and teachers of singing, including the use of the International Phonetic Alphabet.
MUS 3120 Diction 2: German and French	1 s.h.	The basics of German and French lyric diction, designed for singers and teachers of singing, including the use of the International Phonetic Alphabet. Prerequisite: MUS 3110 or department approval.
MUS 3330 History of Music Literature I	3 s.h.	Development of music from pre-Christian beginnings through the Baroque period with emphasis on music form, style, literature, and composers.
MUS 3340 History of Music Literature II	3 s.h.	Development of music from the Classical period to the present with emphasis on musical form, style, literature, and composers.
MUS 3540 Piano Pedagogy I	2 s.h.	Intensive study of methods and materials in piano teaching as applied to beginning and intermediate students.
MUS 3550 Piano Pedagogy II	2 s.h.	Continuation of MUS 3540 as applied to the advanced student.
MUS 3630 String Pedagogy	2 s.h.	Group study of strings; technical differences, capabilities, peculiarities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.
MUS 3650 Woodwinds Pedagogy	2 s.h.	Group study of winds: technical differences, capabilities, ranges, etc., sufficient to teaching beginning students effectively in groups. Designed for the middle and secondary school teacher.
MUS 3660 Brass Pedagogy	1 s.h.	Group study of brass: technical differences, capabilities, ranges, etc., sufficient to teaching beginning students effectively in groups. Designed for the middle and secondary school teacher.
MUS 3670 Percussion Pedagogy	1 s.h.	Group study of percussion: technical differences, capabilities, ranges, etc., sufficient to teaching beginning students effectively in groups. Designed for the middle and secondary school teacher.

MUS 3910, 4910 Music Management Cooperative Education I, II **1-4 s.h.**

Specialized learning experiences related to music management, under supervision of authorized personnel. Prerequisite: approval of advisor.

MUS 4020 Contrapuntal Techniques **2 s.h.**

Aural and visual acquaintance with contrapuntal music of the 17th and 18th centuries; writing of music involving techniques characteristic of the period.

MUS 4030 Form and Analysis **2 s.h.**

Structural elements of musical composition as applied to form, from the simple song forms to the sonata-allegro form; melodic, harmonic, and structural analysis of representative works.

MUS 4040 Conducting and Performing Techniques **2 s.h.**

Integrated course with emphasis on baton technique, score reading, and arranging. Lecture 1 hour, laboratory 2 hours.

MUS 4070 Choral Techniques **2 s.h.**

Integrated course in development of choral tone, blend, balance, articulation, and appropriate baton techniques, score preparation, style, and rehearsal procedures.

MUS 4170 Church Music (RST) **2 s.h.**

The practice of church music in Catholic and Protestant traditions; a survey of music literature for liturgical purposes; principles of church music administration and program organization.

MUS 4750 Special Topics in Music **2 s.h. (max. 8 s.h.)**

Special topics in music involving material of timely, special, or unusual interest not contained in the regular course offerings.

MUS 4800 Teaching of Music at the PK-Elementary Level **2 s.h.**

Methods and materials of teaching general music in the classroom, as well as the study of standards, methods, materials, and rehearsal techniques for the prekindergarten through elementary vocal and instrumental programs.

MUS 4850 Teaching of Music at the Secondary Level **2 s.h.**

Study of standards, repertoire, techniques, and materials of choral and instrumental music for the middle and high school music programs.

MUS 4950 Music Management Seminar **2 s.h.**

Through class discussion, presentations, and directed projects, students acquire information and skills pertinent to their particular interests and goals, as well as an overview of the entire music management field.

MUS 4960 Senior Seminar in Music **1 s.h.**

Capstone course for all music concentrations. In-depth consideration of issues related to the senior music major's concentration. *To be taken in the student's senior year.*

Music/Applied (MUAP)

MUAP 1010, 1020, 1030, 1040 Applied Music for the Adult Beginner **2 s.h. each (max. 14 s.h. each)**

Basic course with emphasis on fundamental technique and musicianship. Includes theory, technique, reading, and repertoire designed to meet the needs of the individual student. *Credit not applicable toward performance major nor toward major applied music electives.*

MUAP 10x0.05 – Piano for the Adult Beginner

MUAP 10x0.10 – Improvisational Piano for the Adult Beginner

MUAP 10x0.15 – Voice for the Adult Beginner

MUAP 10x0.24 – Organ for the Adult Beginner

MUAP 10x0.26 – Violin for the Adult Beginner

MUAP 10x0.28 – Guitar for the Adult Beginner

MUAP 10x0.29 – Bass Guitar for the Adult Beginner

MUAP 10x0.31 – Flute for the Adult Beginner

MUAP 10x0.41 – Clarinet for the Adult Beginner

MUAP 10x0.45 – Cello for the Adult Beginner

MUAP 10x0.51 – Trumpet for the Adult Beginner

MUAP 10x0.55 – Saxophone for the Adult Beginner

MUAP 10x0.65 – Low Brass for the Adult Beginner

MUAP 1080 Chorale **1 s.h. (max. 14 s.h.)**

Study and performance of sacred and secular choral literature; development of a discriminatory taste in music through experience in actual participation.

MUAP 1090 Voice Class I **2 s.h. (max. 14 s.h.)**

Practical approach to fundamentals of good singing techniques: support, vowel formation, concepts of resonance. Emphasis is on establishment of good vocal habits and exercises for development of the singing and speaking voice.

MUAP 1100 Voice Class II **2 s.h. (max. 14 s.h.)**

Continuation of Voice Class I.

MUAP 1110 Coaching for the Singer **1 s.h. (max. 14 s.h.)**

For the classical and musical theatre singer, a private lesson with a professional collaborative coach/pianist. Lesson will focus on the varying artistic needs for the singer: foreign languages, style, emotional relationship to the lyric/poem, understanding of song's piano accompaniment, and working collaboratively with a pianist. Prerequisite: Completed two semesters of applied voice.

MUAP 1150, 1160, 2150, 2160, 3150, 3160, 4150, 4160 Voice **2 s.h. each (max. 14 s.h. each)**

The study of vocal technique including placement/resonance, vowel formation, intonation, breath control, and tone production. Emphasis on repertoire, musicianship, and artistry through vocal literature of art songs and arias in varying languages.

MUAP 1210, 1220, 2210, 2220, 3210, 3220, 4210, 4220 Piano **2 s.h. each (max. 14 s.h. each)**

Study of keyboard theory, techniques and repertoire designed to meet needs of individual students.

MUAP 1240, 1250, 2440, 2250, 3240, 3250, 4240, 4250 Organ **2 s.h. each (max. 14 s.h. each)**

Organ technique; application to basic materials; congregational, accompaniment, repertoire designed to meet needs of individual students.

MUAP 1260, 1270, 2260, 2270, 3260, 3270, 4260, 4270 Violin
2 s.h. each (max. 14 s.h. each)

MUAP 1280, 1290, 2280, 2290, 3280, 3290, 4280, 4290 Guitar
2 s.h. each (max. 14 s.h. each)

MUAP 1310, 1320, 2310, 2320, 3310, 3320, 4310, 4320 Flute
2 s.h. each (max. 14 s.h. each)

MUAP 1360, 1370, 2360, 2370, 3360, 3370, 4360, 4370 Saxophone
2 s.h. each (max. 14 s.h. each)

MUAP 1410, 1420, 2410, 2420, 3410, 3420, 4410, 4420 Clarinet
2 s.h. each (max. 14 s.h. each)

MUAP 1430, 1440, 2430, 2440, 3430, 3440, 4430, 4440 Viola
2 s.h. each (max. 14 s.h. each)

MUAP 1450, 1460, 2450, 2460, 3450, 3460, 4450, 4460 Cello
2 s.h. each (max. 14 s.h. each)

MUAP 1470, 1480, 2470, 2480, 3470, 3480, 4470, 4480 Harp
2 s.h. each (max. 14 s.h. each)

MUAP 1510, 1520, 2510, 2520, 3510, 3520, 4510, 4520 Trumpet
2 s.h. each (max. 14 s.h. each)

MUAP 1560, 1570, 2560, 2570, 3560, 3570, 4560, 4570 Low Brass
2 s.h. each (max. 14 s.h. each)

MUAP 1580, 1590, 2580, 2590, 3580, 3590, 4580, 4590 French Horn
2 s.h. each (max. 14 s.h. each)

MUAP 1650, 1660, 2650, 2660, 3650, 3660, 4650, 4660 Jazz Piano
2 s.h. each (max. 14 s.h. each)

The study of jazz keyboard skills, theory, and repertoire designed to meet the needs of the individual student. Prerequisite: 2 semesters of applied. Does not replace the applied instrument/voice requirement of any concentration.

MUAP 2150, 2160, 3150, 4150, 4160 Voice
2 s.h. each (max. 14 s.h. each)

Continuation of MUAP 1150, MUAP 1160; more advanced repertoire.

MUAP 2610 Lyric Theater 1 s.h. (max. 14 s.h.)
The study and public performance of staged productions from the operatic, light opera, and Broadway genres. Open to all students and community members.

MUAP 3620 Ensemble: Instrumental Chamber Music 1 s.h. (max. 14 s.h.)

Study and performance of duos, trios, quartets, and other combinations; open to all students by audition.

MUAP 3720 Ensemble: Orchestra/Band 1 s.h. (max. 14 s.h.)
Rehearsal, membership, and performance in an orchestra, band, or jazz ensemble; open to all students by audition.

MUAP 4010 Orchestration 2 s.h.
Fundamentals of orchestration and arranging for instruments and voices, with an emphasis on the application of 18th to 21st century techniques. Prerequisite: four semesters of theory or departmental approval.

MUAP 4050 Conducting 2 s.h. (max. 6 s.h.)
Continued integrated course to refine skills on baton technique, score reading, and arranging. Attention centered

on individual specialist concentration in choral or instrumental music. Prerequisite: MUS 4040.

MUAP 4100 Applied Composition 2 s.h. (max. 14 s.h.)
Study of music composition for acoustic and electronic media: methods; forms; orchestration; and performance techniques. Private lesson format. Prerequisites: MUS 2130, MUS 2140, MUS 2330, MUS 2340, and MUAP 4010. Does not replace the applied instrument/voice requirement of any concentration.

MUAP 4770 Film Scoring I 2 s.h.
First semester of a three-term sequence, beginning with study and utilization of computer software and hardware for composition for film and video. Prerequisites: MUS 1800, MUS 1130, MUS 1140, MUS 1330, MUS 1340, and basic keyboard skills demonstrated by proficiency examination. Some experience in musical composition is recommended.

MUAP 4780 Film Scoring II 2 s.h.
Continued study of methods of composing, arranging, and orchestrating music for film and video, using music technology. Prerequisite: MUAP 4770.

MUAP 4790 Film Scoring III 2 s.h.
Studies leading to composition of a feature-length film score, in collaboration with Broadcast and Cinema Arts senior seminar students. Prerequisite: MUAP 4770 and MUAP 4780.

MUAP 3800, 4800 Recital 1 s.h.
Students will prepare for and perform a public recital of memorized repertoire appropriate for their instrument or voice.

MUAP x800.05 – Recital: Piano

MUAP x800.15 – Recital: Voice

MUAP x800.24 – Recital: Organ

MUAP x800.26 – Recital: Violin

MUAP x800.28 – Recital: Guitar

MUAP x800.31 – Recital: Flute

MUAP x800.41 – Recital: Clarinet

MUAP x800.45 – Recital: Cello

MUAP x800.51 – Recital: Trumpet

MUAP x800.55 – Recital: Saxophone

MUAP x800.65 – Recital: Low Brass

Natural Science (NSC)

NSC 1250 Health Problems (FCS) 4 s.h.
Biological approach to health and disease in man. Study of drugs, smoking, alcohol, venereal disease, sex education, nutrition, heredity, and topics of current interest. (For non-science majors.)

NSC 3080 The Nature and Scope of Inquiry 3-4 s.h.
Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems or dilemmas of contemporary life. Utilizing the different modes of

inquiry which characterize the various disciplines, the course involves students in readings, discussions, works of art, lectures by experts, team collaboration, and independent research. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of Madonna University.

NSC 3250 The Ascent of Man 4 s.h.

Presentation of interrelationships of science and humanities throughout history. Discussion of the role of science and technology on the course of human events; course based on TV series. (For non-science majors.)

NSC 3730.00 Science Foundations I: Chemistry and Life Science (EDU) 3 s.h.

An introduction, for preservice elementary teachers, to the basic concepts of matter: atoms, molecules, its changes, properties, and reactions. Plant and animal life, genetics, food cycle, changes in digestion, and ecosystems. Lecture 3 hours. laboratory 3 hours. Prerequisite: MTH 1040 or equivalent. Co-requisite NSC 3730.LB (For non-science majors)

NSC 3730.LB Science Foundations I: Chemistry and Life Science (EDU) Lab 1 s.h.

An introduction, for pre-service elementary teachers, to the basic concepts of matter: atoms, molecules, its changes, properties, and reactions. Plant and animal life, genetics, food cycle, changes in digestion, and ecosystems. Lab will meet for 3 hours per week. Prerequisite: MTH 1040 or equivalent. Co-requisite NSC 3730.00. (For non-science majors.)

NSC 3740.00 Science Foundations II: Astronomy, Earth Science, and Physics (EDU) 3 s.h.

A continuation of basic science concepts of preservice elementary teachers: study of the solar system, the earth's structure, and the laws and forces which govern our planet and the universe as a whole. Lecture 3 hours, laboratory 3 hours. Prerequisite: MTH 1040 or equivalent. Co-requisite: NSC 3740.LB (For non-science major.)

NSC 3740.LB Science Foundations II: Astronomy, Earth Science, and Physics Lab (EDU) 1 s.h.

This lab course is designed for students preparing for teaching science in elementary schools. The course serves as an introduction to scientific inquiry in the sciences of Physics, Meteorology, Astronomy, geology, and oceans. Learning through inquiry in the laboratory means that students will be provided weekly with scientific instruments and given instructions for conducting scientific experiments and demonstrations. The goal of this course is to provide practice with basic skills for doing science. This course will help students develop an understanding of science as an active and creative process and an evidence-based way of thinking. Lab will meet for 3 hours per week. Co-requisite: NSC 3740.00.

NSC 4050 Science and Social Responsibility 2 s.h.

Introduces students to interdisciplinary thinking, analysis, and research in the natural sciences. Examines the role of science in a rapidly changing society. Theories and methodologies of the natural sciences are explored, as well as the ethical dimensions of science in the 21st century. Students integrate knowledge of significant social and scientific developments that determine public policies and which in turn affect society at large. *Enrollment limited to international students in specific programs.*

NSC 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by Natural Science and Integrated Science students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Nursing (NUR)

NUR 2820 Introduction to Professional Nursing 4 s.h.

Provides an overview of the role of the professional nurse and addresses the nature of the nursing profession. Foundational concepts of dynamics of systems, holistic caring, and professional practice are explored. Includes an academic service-learning experience and foundational skills lab. Prerequisite: admission to the nursing major. Corequisite: NUR 2830.

NUR 2830 Health Assessment and Promotion 3 s.h.

Focuses on the role and activities of a professional nurse in collecting a health history and performing a physical assessment of an adult. The process of health assessment utilizes previous knowledge from Anatomy and Physiology and Pathophysiology. The relationship of health assessment to evidence based health promotion is explained. A supervised laboratory practicum focuses on cognitive, affective, and psychomotor skill development. Prerequisite or corequisite: NUR 2820.

NUR 3010 Transitions in Professional Nursing 3 s.h.

Required introductory course designed to introduce the registered nurse (RN) to the foundations of baccalaureate nursing education. RNs focus on professional nursing roles within the context of complex practice settings across the care continuum. Exploration of concepts relevant to the contemporary health care system and skills necessary for academic and professional success. Prerequisite: Admission to the Nursing for RNs program.

NUR 3420 Pharmacology 3 s.h.

Focuses on the principles of pharmacology while incorporating the nursing process with an emphasis on clinical judgement to provide safe and quality care to the patient receiving medications. Prerequisites or Corequisites: NUR 2820 and NUR 2830.

NUR 3460 Holistic Mental Health Nursing Care 4 s.h.

Introduces the student to a holistic perspective of psychiatric-mental health nursing. The student identifies evidence to support clinical decision making and application to the nursing process. This course includes a supervised practicum. Prerequisites: NUR 2820, NUR 2830. Prerequisite or corequisite: NUR 3420, NUR 3480

NUR 3470 Evidence Based Nursing Practice 3 s.h.

Analyze components of the research process and methodologies relative to nursing practice with an emphasis on the bridge between theory, nursing research, and clinical decision making. Examines the implications of an evidenced based practice approach in nursing. Prerequisite: Admission to the Nursing for RNs program.

NUR 3480 Holistic Nursing Care Adults and Families I 5 s.h.

This course focuses on the professional nursing role in the care of adult patients experiencing acute and chronic health problems addressing the physiological and psychosocial needs within the framework of the nursing process. This course includes a supervised practicum in an adult health care setting and supervised laboratory practicum. Prerequisites: NUR 2820, NUR 2830. Prerequisites or corequisites: NUR 3420, NUR 3460, MIS 3350. Corequisite NUR 32480.LB.

NUR 3510 Health and Technology in Nursing 3 s.h.

Focus on informatics processes used to provide patient care, gather data and drive decision making. The role of the nurse in health information technology analysis, planning, implementation and evaluation will be examined. Prerequisite: Admission to the Nursing for RNs program.

NUR 3800 Health Promotion, Risk Reduction, and Disease Prevention 3 s.h.

Focus on the application of nursing strategies to enhance optimum wellness across the lifespan. Integrates health promotion, risk reduction, and disease prevention principles into the care of individuals and families across the care continuum. Prerequisite: Admission to the Nursing for RNs program.

NUR 3850 Evidence-Based Scholarship and Practice I 2 s.h.

Evidence-based practice serves as the basis for making clinical judgments and fulfilling professional nursing responsibilities. This course introduces the role of research in improving clinical practice, strategies to evaluate research and evidence, and the integration of research into practice. Prerequisites: NUR 2820 and NUR 2830. Prerequisites or corequisites: NUR 3420, NUR 3460 and NUR 3480.

NUR 3975 Population Focused Older Adult and Family 4 s.h.

Addresses theories related to physical, psychological, legal, and social aspects of aging for individuals and families. Issues including chronicity, palliative, and end of life care are analyzed. Includes a supervised practicum. Prerequisites: NUR 3420, NUR 3460, NUR 3480. Prerequisites or corequisites: NUR 3850, NUR 3985.

NUR 3985 Holistic Nursing Care of Adults and Families II 5 s.h.

Focuses on the care of adult patients with acute and/or chronic health problems with an emphasis on evidence-based clinical practice guidelines. Patients and their families are cared for in a holistic manner utilizing the nursing process and clinical judgement. Includes a supervised acute care practicum. Prerequisites: NUR 3420, NUR 3460, NUR 3480. Prerequisites or corequisites: NUR 3850, and NUR 3975.

NUR 4120 Issues in Gerontological Nursing and Palliative Care 3 s.h.

Focuses on the care of older adults across the care continuum. Current theories are examined with an emphasis on the physical, psychological, legal, and social aspects of aging. Normal aging changes, common acute, chronic, and complex health problems, community resources, interdisciplinary team management, and quality of end of life care for older adults and their families are explored. Prerequisite: Admission to the Nursing for RNs program.

NUR 4310 Population Based Care 3 s.h.

Focuses on the synthesis of community, public health, and nursing principles and concepts as applied to the promotion and preserving of the health of populations. Attention is given

to the complexity of systems of care across the continuum through frames of increasingly culturally, ethnically, and socially diverse populations. Environmental, epidemiological, social, economic, political, ethical/legal, disaster, and global factors are examined as influences on the health of aggregates. Utilizing the nursing process, population-based interventions are explored. Prerequisites: Admission to the Nursing for RNs program. Includes 30 hours of clinical practicum.

NUR 4330 Critical Care Nursing 3 s.h.

Foundational knowledge and clinical skills necessary to care for adult patients impacted by critical illness will be explored. Emphasis is placed on advanced assessment, prioritization, and management of patients with life-threatening conditions. Students will study key concepts in hemodynamics, ventilatory support, pharmacological therapies, and interdisciplinary collaboration in high acuity settings. Evidence-based practices, ethical decision making, and compassionate care is integrated to prepare students for the complexities of critical care environments.

NUR 4410 Holistic Nursing Care of Children and Families 4 s.h.

Focuses on wellness and illness management, clinical decision making, and holistic care of children and their families. The course emphasizes evidence-based practice in providing care for children and their families. Includes a supervised practicum. Prerequisites: all 3000-level NUR courses. Corequisite: NUR 4870 and NUR 4450

NUR 4450 Holistic Nursing Care of Women and Families 4 s.h.

Focuses on clinical decision making while providing holistic care for women and families across the lifespan. The course includes evidence-based practice to guide health promotion and disease prevention for women and families. This course includes a supervised practicum. Prerequisites: all 3000-level NUR courses. Corequisites NUR 4410 & NUR 4870

NUR 4720 Health Assessment and Promotion for the RN-BSN 3 s.h.

The comprehensive assessment of adult patients and the development of focused assessments as related to specific pathology, based on holistic appraisal of the adult patient. Evidence based health promotion will be integrated into the health assessment process. Includes a supervised practicum. Prerequisite: Admission to the Nursing for RNs program.

NUR 4840 Dynamic Nursing Leadership 3 s.h.

Analysis of an understanding of the dynamics of the ever-changing health care environment as foundational to professional nursing practice. The course examines knowledge of leadership principles and dynamics of systems coupled with professional roles and responsibilities in promoting quality and safety. Prerequisites: NUR 4410, NUR 4870, and NUR 4450 corequisites: NUR 4970 & NUR 4860

NUR 4860 Holistic Care Immersion 6 s.h.

Focuses on the integration and application of evidence-based practice, wellness and illness management, clinical decision making, and holistic caring in professional nursing practice. Includes an acute care clinical component. Prerequisites: NUR 4410, NUR 4870, and NUR 4450. Corequisite: NUR 4970 and NUR 4840

NUR 4870 Population-Focused Professional Nursing 5 s.h.

Addresses population-focused nursing by identifying the social determinants of health and analyzing the contemporary issues impacting population health. The course focuses on health beliefs and evidence-based practice to guide health promotion and disease prevention in individuals, families, and communities. This course includes a supervised practicum. Prerequisites: all 3000-level NUR courses. Prerequisites: all 3000-level NUR courses. Corequisites: NUR 4410 & NUR 4450

NUR 4970 Research and Evidence-Based Practice II 2 s.h.

Students apply research and evidence-based processes by creating a project that reflects current perspectives on nursing or of nursing practice as articulated in the nursing literature. Students use their experiences and ways of knowing about nursing as context for improving their professional nursing practice and enhancing their professional development. Prerequisites: NUR 4410, NUR 4870, and NUR 4450. Corequisites: NUR 4860 and NUR 4840.

NUR 4980 Nursing Leadership for Promoting Quality and Safety 3 s.h.

Examines leadership roles and responsibilities for nursing within organizations and communities. Concepts and principles of management, health policy, finance, interdisciplinary collaboration, and transitional care are studied through the context of quality and safe patient care. Prerequisites: Admission to the Nursing for RNs program, NUR 3510, and NUR 3470.

NUR 4990 Emerging Issues in Nursing Profession 2 s.h.

Focuses on contemporary issues and trends affecting the nursing profession, healthcare system, and healthcare team. Influence of these issues on the role of the professional baccalaureate nurse will be analyzed. Prerequisite: Admission to the Nursing for RNs program. NUR 4980, NUR 4310. *To be taken in the student's final semester in the Nursing for RNs program. Includes 30 hours of clinical practicum.*

Nutrition and Food Science (NFS)

NFS 2220 General Nutrition for the Health Professional 2 s.h.

A study of nutrients in foods and their involvement in the function of human body systems. Health and nutrition throughout the lifespan are discussed. *May not be used toward the Dietetics, Nutrition and Wellness, and Nutritional Sciences major electives or the Nutrition minor electives.*

NFS 2230 Therapeutic Nutrition for the Health Professional 2 s.h.

The application of basic nutrition knowledge to diet modification as a preventative or therapeutic aid in specific disease states is discussed. Prerequisites: NFS 2220 or equivalent, and approval of advisor.

NFS 2260.00 Food Science and Sanitation (FCS) 2 s.h.

Examination of the basic composition, structure and properties of foods and the chemistry of changes occurring during preparation and storage. Analysis of the physical, chemical and biological contaminants, risk factors, and unsafe practices that can cause foodborne illnesses and how to prevent them. Co-requisite: NFS 2260.LB.

NFS 2260.LB Food Science and Sanitation Lab (FCS) 1 s.h.

Practical application of the principles of food science related to food, food safety and methods of food preparation. Introduction of culinary techniques, terminology and laboratory equipment. Co-requisite: NFS 2260.00.

NFS 2270 Human Nutrition (FCS) 3 s.h.

Study of nutrients in foods and their involvement in the function of human body systems. Problems in and programs for meeting personal, family, national, and world nutritional needs.

NFS 2290 Topics in Food and Nutrition 1 s.h. (max. 3 s.h.)

An overview of current scientific information about contemporary topics in food and nutrition. Students explore how issues related to the topic affect the consumer. Topics vary by semester. *Students may take the course up to three times, provided the content is distinct.*

NFS 2360 Child Nutrition 2 s.h.

Exploration of factors that influence nutrition and food intake from infancy through childhood: healthy attitudes toward food, healthy food environments, and nutritional concerns related to childhood. Includes creation of healthy snacks and planning educational activities for children. *May not be used toward Dietetics, Nutrition and Wellness, and Nutritional Sciences major electives or the Nutrition minor electives.*

NFS 2420 Nutrition for the Older Adult (AGE) 2 s.h.

Practical problems of meeting nutritional needs of older adults considering economic, physical, and psychological changes that occur with age. Study of agencies and programs concerned with meal delivery systems for the elderly.

NFS 2470 Sports Nutrition 3 s.h.

Examines the essentials of human nutrition that improve and sustain optimal performance for sport and exercise. Includes an emphasis on the nutritional concerns and common practices of recreational and competitive athletes.

NFS 2760 Food Service Sanitation 2 s.h.

Control of foodborne illness in the food service industry. Specifics of Food Service Sanitation Law and the inspection report form. Most common violations and means for training and motivating employees.

NFS 2910 Cooperative Education 1-4 s.h. (max. 4 s.h.)

Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 2930 Practicum 1-4 s.h.

Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 3120 Nutrition and Human Development 3 s.h.

The study of changing nutrient needs throughout the life cycle. Study of each phase from pre-conception through the elderly years includes key nutrition concepts, physiological principles, and nutritional recommendations. Prerequisite: NFS 2270.

NFS 3220 Nutrition Assessment 2 s.h.

An examination of the process of obtaining and interpreting nutritional data. Students gain experience with medical documentation and explore appropriate uses for nutrition support. Prerequisites: BIO 2250 and NFS 2270.

NFS 3250 Medical Nutrition Therapy I 3 s.h.
Physiological basis for modification of the normal diet as a preventive measure or therapeutic aid in certain diseases and disorders of the body. Prerequisites: BIO 2250 and NFS 3220.

NFS 3290 Topics in Food and Nutrition 1 s.h. (max 3 s.h.)
Specialized study of contemporary topics in food and nutrition. Students explore concepts related to food intake and nutrition, enabling them to better serve the consumer. Topics vary by semester. *Students may take the course up to three times, provided the content is distinct.*

NFS 3312 Introduction to Sustainable Food Systems and Nutrition (ENV) 2 s.h.
Study of the issues related to the current U.S. food system and its effects on human health and the environment. Topics include sustainable food system approaches, community food security, and social justice. Students taking the course for 3 s.h. participate in service-learning in a sustainable agriculture setting.

NFS 3390 Nutrition Education and Counseling 2 s.h.
Designing instructional units and materials for teaching nutrition and health principles to children and adults. Counseling theories, motivational interviewing, and behavior modification are covered. Prerequisite: NFS 2220 or NFS 2270.

NFS 3550 Consumer Behavior (MKT*) 3 s.h.

NFS 3910 Cooperative Education 1-4 s.h. (max. 4 s.h.)
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 3930 Practicum 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

NFS 4260 Nutrient Metabolism 3 s.h.
Biochemical principles involved in the metabolism of macro and micro-nutrients, as well as the consequences of over and under nutrition. Students will critique current nutrition research and study techniques for assessing basal metabolic rate. Prerequisites: CHM 1610.00 and CHM 1610.LB, or CHM 3610.00 and CHM 3610.LB; and BIO 2250; and NFS 2270.

NFS 4380 Public Health Nutrition 2 s.h.
Examination of food and nutrition knowledge, policy, and research to improve the nutrition status and health of the population. Approaches to prevent and alleviate diet related conditions including programs for vulnerable groups will be covered. Special emphasis on the barriers to improving the nation's health, such as structural bias in health care. Prerequisite: NFS 2270.

NFS 4390 Performance Nutrition Assessment and Education 1 s.h.
An opportunity to pursue practical work directly related to educating athletes about nutrition and improving healthy food choices of athletes. The experiences include assisting with the fuel station, completing nutrition assessments, observation of nutritional counseling sessions, presenting nutritional education sessions to sports teams and

promoting healthy food choices in university dining centers. Prerequisites: NFS 3390 and permission of instructor.

NFS 4395 Advanced Nutrition Counseling 1 s.h.
Application of counseling theories, motivational interviewing, and behavior modification in nutritional counseling simulations in complicated nutrition conditions. Evidence-based strategies and counseling skills to promote behavior change in patients/clients are emphasized. Prerequisite: NFS 3390.

NFS 4420 Medical Nutrition Therapy II and Professional Issues 3 s.h.
A study of stress in the critically ill and diseases of the hematological, neurological, respiratory, and musculoskeletal systems together with appropriate nutritional interventions. Professional issues and issues related to healthcare delivery in nutrition and dietetics will be covered. Prerequisites: BIO 2250, NFS 3220.

NFS 4460 Management of Food and Nutrition Services 3 s.h.
Principles of management applied to food and nutrition services. Purchasing standards, buying procedures, storage principles, and factors affecting quality, efficiency, sustainability, and economy in quantity food production and services. Topics include personnel management, cost control, leadership, and safety standards. Prerequisites: MGT 2360, and NFS 2260.00 and NFS 2260.LB.

NFS 4910 Cooperative Education 1-4 s.h.
Supervised work experience in a professional situation related to the student's specialization area. Prerequisite: approval of advisor.

NFS 4950 Senior Seminar 2 s.h.
Senior research and presentation of research thesis. Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.

NFS 4960.00 Experimental Foods and Research 2 s.h.
Investigation of chemical and physical properties of water, proteins, lipids, carbohydrates, and other food components and their functional roles in foods. Principles involved in food quality, spoilage and preservation, and control of foodborne illnesses. Quantitative and qualitative research design in food and nutritional sciences. Lecture 2 hours. Prerequisite: BIO 2260.00 and BIO 2260.LB. or BIO 2270; CHM 1610.00 and CHM 1610.LB, or CHM 2210.00 and CHM 2210.LB; NFS 2260.00 and NFS 2260.LB. Co-requisite: NFS 4960.LB.

NFS 4960.LB Experimental Foods and Research Lab 1 s.h.
Practice standard methods of food preparation with emphasis on quality, ingredient modification, nutrient retention, and safety. Students will conduct a formal food demonstration and an original food science experiment. Laboratory 3 hours. Prerequisite: BIO 2260.00 and BIO 2260.LB. or BIO 2270; CHM 1610.00 and CHM 1610.LB, or CHM 2210.00 and CHM 2210.LB; NFS 2260.00 and NFS 2260.LB. Co-requisite: NFS 4960.00.

Occupational Safety and Health (OSH)

OSH 1020 Standards and Regulations 3 s.h.
OSHA/MIOSHA/NFPA standards, codes, and regulations. Rationale for the Williams-Steiger Occupational Safety and Health Act of 1970. Evolution of standards, record-keeping, compliance, and enforcement.

OSH 2150 Building Construction (FS) 3 s.h.

Study of fundamental concepts of building design and construction; site selection, code compliance, architectural plans, incorporation of mechanical and power devices; terminology.

OSH 2910 Cooperative Education I 1-3 s.h.

Field placement in either municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Preservice students only.

OSH 2930 Internship I 1-3 s.h.

Field placement in either municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Preservice students only.

OSH 3020 Field Experiences 1-3 s.h.

Credit awarded individuals for evidence of full-time employment of two or more years in the field of occupational safety. Documentation of competencies required.

OSH 3110 Industrial Safety and Health (FS) 3 s.h.

A study of numerous job-related safety and health hazards associated with a wide range of occupations in industrial work environments.

OSH 3210 Construction Safety 2 s.h.

Study of factors in building structures and in use of tools and materials that cause accidents. Applications of regulations and standards of Michigan Department of Labor—Construction Division. Development of safety awareness to prevent or reduce accidents on construction sites.

OSH 3220 Inspection and Survey of Facilities (FS) 3 s.h.

Safety and health hazards, both common and unique to various kinds of occupancies, including residential, industrial, and commercial. Includes surveying procedures, hazard recognition and evaluation, and the application of appropriate measures to assure maximum life and property safety. Prerequisite: OSH 2150 or consent of advisor.

OSH 3310 Safety Program Management 3 s.h.

Examination of the organizational concepts of a safety program with emphasis on organizational safety programs, objectives, responsibilities, and implementation; accident control and reports; motivation and incentives.

OSH 3500 Hydraulics and Water Supply (FS*) 3 s.h.**OSH 3520 Industrial Hygiene I 3 s.h.**

Familiarization with irritating or toxic substances and various occupational stress factors causing employee discomfort or illness; emphasis on sources and the control of environment pollution, concepts of industrial hygiene; hazard evaluation, and elimination of related problems. Prerequisites: CHM 1110.00, CHM 1110.LB; BIO 2250, or BIO 2450.00 and BIO 2450.LB and BIO 2460.00 and BIO 2460.LB, or NSC 1250.

OSH 3680 Fire Protection Systems I (FS*) 3 s.h.**OSH 3690 Fire Protection Systems II (FS*) 3 s.h.****OSH 3910 Cooperative Education II 1-3 s.h.**

Advanced semi-professional level assignments in on-the-job application of occupational health and safety principles in an industrial, commercial, institutional setting. Preservice students only.

OSH 3930 Internship II 1-3 s.h.

Advanced semi-professional level assignments in on-the-job application of occupational health and safety principles in an industrial, commercial, institutional setting. Preservice students only.

OSH 3980 Industrial Hygiene II 3 s.h.

Techniques of instrumentation and sampling. Hands-on training in use of instruments to measure and evaluate occupational health hazards by taking samples or surveying noise level, heat exposure, oxygen deficiency, combustible vapors, ventilation, as well as toxicology and radiation sources, along with protective measures to cope with hazards for their prevention and control. Prerequisites: OSH 3520, CHM 1110.00, CHM 1110.LB; BIO 2250, or BIO 2450.00 and BIO 2450.LB and BIO 2460.00 and BIO 2460.LB, or FSC.

OSH 4250 Fire and Arson Investigation (FS*/EM) 4 s.h.**OSH 4300 Employee Occupational Health Maintenance and Medical Care Program 3 s.h.**

Study of drugs, smoking, alcohol, nutritional, and substance abuse in relationship to lost time, morale, accident frequency, and security. Medical care aspects deal with pre-employment, return to work, and work limitations as well as periodic physical re-examination; providing administrative and operational guidelines for designing and implementing a health maintenance program as well as emergency and pre-hospital medical care.

OSH 4400 Tactics and Strategy (FS*) 3 s.h.**OSH 4510 Hazardous Materials I (EM/FS) 3 s.h.**

Detailed knowledge for the emergency service professional: (a) identification, storage, handling, disposal, and identifying products of combustion of hazardous materials, including flammables, explosives, oxidizing, and corrosive materials; (b) methods of contingency planning for hazardous materials incidents, culminating with the use of current software to conduct table top exercises to assist in planning, mitigating, and responding to hazardous materials emergencies. Prerequisites: CHM 1110.00 and CHM 1110.LB or equivalent.

OSH 4520 Hazardous Materials II (EM/FS) 3 s.h.

Preparation and certification at the technician level (40 hour) for emergency service professionals responding to hazardous materials incidents. Emphasis on the development of hazardous materials regulations, transportation placards, labels and markings, and hazard communication requirements. Prerequisite: EM 4510.

OSH 4900 Fire Service Management (FS*) 3 s.h.**OSH 4950 Senior Seminar 2 s.h.**

Preparation and presentation of a library research paper that integrates knowledge gained in the major discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Paralegal Studies (LAW)**LAW 1000 Introduction to Paralegal Studies 3 s.h.**

Introduction to the various roles of the paralegal, with an emphasis upon job functions, ethics, and skills, legal terminology, and the court system.

LAW 1010 Legal Research and Writing I 3 s.h.

An introduction to the law library and the use of legal references; the techniques of legal research as used in writing letters, instruments, pleadings, briefs, and memoranda. Emphasis on State law. Prerequisite: WRT 1020.

LAW 2100 Law, Society, and Politics (PSC/SOC) 3 s.h.

This core curriculum law course examines the social, political, and historical contexts of law as a social institution. Students will examine historical, political, and societal perspectives on why law is made, how it is made in legislatures and the courts, and how it shapes what individuals do on an everyday basis. Students focus on legal institutions and resolution processes including historical and recent case law, institutional political science, resultant social policy, and its impact on society through mixed media and an examination of case studies. This is not a legal specialty course and permission to use it for major credit must be obtained from the Program Director prior to enrolling in the course.

LAW 2220 Domestic Relations 3 s.h.

Divorce law, including interviewing, determination of jurisdiction, counseling, investigation; drafting, serving and filing of legal papers; Friend of the Court Act and property settlements. Prerequisite: must be admitted to the Paralegal Studies major.

LAW 2350 Real Estate 3 s.h.

Interviewing and data collection, title work, mortgage work, taxation, drafting of purchase and sale agreements, closing, liability, insurance.

LAW 2410 Contractual and Commercial Relations 3 s.h.

Fundamentals and theory of the law of contracts. Sales transactions, the Uniform Commercial Code, banking transactions, consumer law, analysis of standard commercial contracts.

LAW 2550 Computer Assisted Legal Research 3 s.h.

Proprietary legal research technology using Westlaw and Lexis. Introduction of new litigation databases for investigating civil and criminal cases. Prerequisite: LAW 1010.

LAW 2560 Legal Research on the Internet 3 s.h.

Introduction to concepts for performing legal and factual research on the Internet (except Westlaw and Lexis) for use in legal applications. Students analyze information retrieved using information literacy principles. Federal legal research as well as factual research is undertaken. Corequisite: LAW 1010.

LAW 2570 Litigation 3 s.h.

Pre-trial, trial, appeal, and enforcement/compliance procedures for civil cases. Data collection and analysis; calendar control and scheduling; organization and coordination of exhibits; drafting of interrogatories, complaint, answer, and other pleadings.

LAW 2580 Electronic Discovery 3 s.h.

This course will explore the rapidly developing role of software in the area of legal data, eDiscovery, and information governance. We will take an in-depth look at the role of software in the litigation lifecycle from data collection and document review to production and presentation at trial. Exploration of technology used in the litigation support

department and by litigation teams in the acquisition of data and eDiscovery processing.

LAW 3210 Legal Research and Writing II 3 s.h.

Further development of research and writing skills, including analyzing a fact situation and following the evolution of a typical lawsuit. Emphasis on Federal law. Prerequisites: LAW 1010 and LAW 2570.

LAW 3450 Business Associations 3 s.h.

Pre-incorporating and incorporation procedures, directors' meetings, stockholders' meetings, public sales of securities, foreign jurisdictions, amending Articles of Incorporation and Bylaws, partnership agreements, and dissolution.

LAW 3560 Intellectual Property 3 s.h.

An overview of the law of patents, trademarks, and copyrights. Focus is on the unique intellectual property problems facing inventors, writers, musicians, and artists. Prerequisite: LAW 1010.

LAW 3770 Law Office Management 3 s.h.

The study of how a law firm functions, including ethics, communication, technology, training, human resources, accounting, profitability, case management, marketing and professional development. Prerequisites: LAW 1000.

LAW 3780 Law Office Technology 3 s.h.

Law firm utilization of computers and specialized legal software to achieve the economic practice of law, including Time and Billing, Accounting, Case Management, Litigation Support, and more. Students in this course will complete training in legal technology and software as a part of the class. Prerequisite: LAW 1000.

LAW 3860 Probate Estates 3 s.h.

Probate administration: Michigan Probate Code; gift taxes; decedents' estates, including determination of assets, federal and state death returns; fiduciary income tax returns; transfer of securities; closing documents.

LAW 3880 Will and Trust Drafting 3 s.h.

An introduction to the items to be considered in drafting wills and trusts. Inter vivos and testamentary trusts are introduced. Role playing for the initial client interview. Students draft a sample will and participate in a will contest mock trial. Prerequisite: LAW 1010.

LAW 4100 Special Problems in Law 1-3 s.h. (max. 10 s.h.)

Study of selected areas of paralegal practice on a seminar basis.

LAW 4220 Torts: An Overview of Negligence 3 s.h.

The fundamentals of tort law with emphasis on application to fact situations encountered in legal practice. Areas covered are intentional interferences and defenses, negligence and defenses, strict liability, product liability, misrepresentation, defamation, wrongful death, medical malpractice, and auto negligence.

LAW 4230 Medical-Legal Concepts and Medical Records 3 s.h.

Practical applications of legal concepts to medical-legal records. Medical terminology and review of medical records are covered.

LAW 4270 Evidence 3 s.h.

Practical use of evidentiary rules in terms of case development and the trial process, including pre-trial discovery plans, trial preparation, and trial assistance.

LAW 4560 Case Preparation and Trial 3 s.h.

An advanced course in the litigation process. An actual case is developed for trial presentation. Drafting of opening statement, closing statements, and jury instructions are covered. Prerequisites: LAW 1010.

LAW 4580 Alternative Dispute Resolution 3 s.h.

An advanced course in the pretrial litigation process which involves pretrial settlement of lawsuits through facilitated settlement, including such methods as: self-help, agency intervention, arbitration, mediation, negotiation, mini-trials, summary jury trials, and court-ordered ADR. Investigation into a career as a mediator is addressed. Prerequisite: LAW 1010. Prerequisite or corequisite: LAW 2570.

LAW 4930/4940 Internship 1-3 s.h.

Demonstration of professional paralegal skills in an employment situation (arranged by the student). Permission of department required. 1 s.h.= 180 hours of work experience; 2 s.h.= 225 hours of work experience; 3 s.h.= 270 hours of work experience. Prerequisite: completion of 24 s.h. of Paralegal classes. (Note: registration for an unpaid situation is LAW 4930; and for a paid situation is LAW 4940.) Corequisite: LAW 4950.

LAW 4950 Legal Seminar 3 s.h.

Capstone course for students with a paralegal or nurse paralegal program. Typically taken the last semester for a student's course of study. Students conduct a legal research and writing assignment, take a pre- and post- ethics quiz, self-assess their current paralegal skills, provide an evaluation of personal and program curriculum, and develop a strategy for continuing legal education. Prerequisite: completion of 24 s.h. of Paralegal classes. Corequisite: LAW 4930 or LAW 4940.

Philosophy (PHL)

PHL 1010 Introduction to Philosophy 3 s.h.

Introduces students to the practice, meaning, and purpose of the discipline that "originates in wonder." Explores questions, concepts, arguments, and schools of thought characteristic of the philosophical tradition.

PHL 1050 Philosophy of Person 3 s.h.

Explores questions about human identity, authenticity, meaning, love, purpose, and freedom. Examines a variety of schools of thought, including those categorized as "personalist."

PHL 1550 Introduction to Ethics 3 s.h.

Examination of the field of ethics, values, and tools for ethical decision making. Overview and analysis of significant philosophical approaches to ethical questions as a basis for the study of contemporary ethical issues.

PHL 2010 Logic 3 s.h.

Study of the three acts of the mind: understanding, judgment, and reasoning. Covers both inductive and deductive reasoning, the traditional syllogism and the basics of symbolic logic, a study of informal fallacies, the connection between

bias (in its various forms) and the performance of logic, especially as the former interferes with understanding and with making reasonable judgments (either through induction or deduction).

PHL 2210 Person and Society 3 s.h.

Exploration of the meaning, role, rights, and responsibilities of the human person as a member of society. Examines how various anthropologies (accounts of the human person) impact the understanding of the relationship between person and society.

PHL 2850 Philosophy of Law (RST) 3 s.h.

A critical survey of the three basic questions of the philosophy of law, via ontology (What is law?), epistemology (How do we know about law?), and ethics (Why should we obey the law?). Entails a study of what makes a legal system legitimate, the difference between (religious) morality and the law, legal theory, penology, and police ethics.

PHL 3150 Existentialism 3 s.h.

Study of the major themes of the philosophical approach of existential phenomenology which forms the intellectual foundation of much of modern thought and literature.

PHL 3210 Philosophy of Beauty 3 s.h.

Philosophical analysis of the theories of beauty; meanings of art objects; the creative process; art as form, expression, symbol, imitation; art in relationship to truth and morals.

PHL 3310 Philosophy of Science 3 s.h.

Study of the philosophy of science, reflecting on the philosophical presuppositions of modern scientific inquiry and a philosophical consideration of the nature of the world in which we live.

PHL 3650 Philosophy of Knowledge 3 s.h.

Examination of the philosophical problems connected with the questions of how human beings know what they know, and how they know whether the knowledge is true or not.

PHL 3750 Special Topics in Philosophy 1-4 s.h. (max. 9 s.h.)

Focus on specialized topics of philosophical inquiry. Topics vary; may be repeated for credit with a new topic. PHL 1010 may be a prerequisite in some cases.

PHL 4080 Ethical Issues in Business 3 s.h.

Reviews traditional philosophical theories of ethics, including those reflecting a Catholic perspective; investigates elements of business practices and the market paradigm that raise ethical concerns, such as injustices in the US economic system.

PHL 4090 Environmental Ethics (RST*) 3 s.h.

(Recommended for students interested in science.)

PHL 4110 Medical Ethics (RST*) 3 s.h.

(Recommended for students interested in health care and aging studies.)

PHL 4150 Philosophy of Religion (RST) 3 s.h.

Beginning with the question, "What is (a) religion?" examines the meaning of religion from etymological, philosophical, and socio-cultural perspectives. Exploration of: 1) the meaning of "God" in the context of arguments for the existence of God; 2) common or universal features of the doctrine of God; 3) the relationship between reason and faith; and 4) conceptions of

ultimate reality and of ultimate human fulfillment characteristic of religions.

PHL 4230 Metaphysics (RST) 3 s.h.

Study, from a philosophical perspective, of the core issues of reality: the fundamental constituents of existence; the nature of God, truth, goodness, and the beautiful; discussion of solutions to metaphysical problems that have been proposed throughout the course of human history.

Physical Education (PED)

Physical education activity courses may be repeated, with instructor permission, up to 4 s.h., for a single course. A maximum of 6 s.h. for all such courses may be counted toward the 120 s.h. of a baccalaureate degree.

PED 1200 Introduction to Athletic Training 2 s.h.

The application of theory and principles of athletic training. Topics include prevention, assessment, and intervention of emergency, acute, and chronic medical conditions of athletes involving impairment, limitations, and disabilities. Injury treatment and rehabilitation, pharmacology, and general medical considerations will also be addressed.

PED 1710 Introduction to Hatha Yoga 2 s.h. (max. 4 s.h.)

Introduction to the general philosophy and principles of Hatha Yoga. Students learn the value of yoga postures, relaxation techniques and breathing. Students learn how health and mental function can be positively influenced by regular yoga practice. Particular attention is given to health needs of individual students.

PED 2010 History of Physical Education and Health 2 s.h.

Survey of the history of Physical Education and Health and how they relate to individuals with diverse needs and cultural values. Emphasis is placed on the promotion of life-long health and wellness. Students learn strategies for planning instruction in physical education and health within the K-12 setting.

PED 2100 Health Fitness Assessment 3 s.h.

A comprehensive survey of the exercise-health relationship and framework for attaining health and fitness goals. This course explores the physiology and benefits of fitness while also providing information and tools for improving health and wellness.

PED 2150 Health and Wellness 3 s.h.

Study of health and wellness and the tools to take responsibility for one's own level of fitness. Emphasis is placed on exercise, proper nutrition, and in dealing with stress in a positive way. Students learn strategies for planning and organizing proper fitness and nutrition programs. Prerequisites: PED 2010 and BIO 2250.

PED 2280 First Aid and Safety 2 s.h.

The cognitive and practical skills required for basic first aid, artificial respiration, and CPR; including accident and safety awareness and understanding the liability aspects of administering these skills. Extensive "hands-on" laboratory skills are emphasized to prepare for CPR (adult, infant, and child) and First Aid certification through the American Red Cross.

PED 2350 Kinesiology 2 s.h.

Study of human movement based on anatomical and structural foundations. Emphasis on the musculoskeletal system

and specific neural structures as they relate to patterns of movement and specific sport skills. Basic biomechanical principles and their applications to the field of physical education are also addressed. Prerequisite: BIO 2250 or BIO 2450.

PED 2410 Concepts: Nutrition, Mental, Social and Emotional Health 3 s.h.

Examination of mental, social and emotional health and its relation to overall health. Topics include appropriate activities for optimal fitness, as well as nutritional needs for optimal health.

PED 2420 Concepts: Communicable and Non Communicable Diseases/Sexual Health 3 s.h.

This course addresses human sexuality, as well as prevention methods for communicable and non-communicable diseases. Emphasis is placed on how to promote healthy lifestyles.

PED 2430 Concepts: Drug Use and Abuse, Consumer Health and Safety 3 s.h.

Students in this course examine the historical impact of drug use, as well as social, psychological and physiological factors related to drug abuse. Consumer health and prevention of injuries are also addressed.

PED 2710 Coaching Principles (SM) 3 s.h.

Examination of conceptual frameworks and topics related to the coaching of child and youth athletes including sociology, psychology, motor skills learning and acquisition, and administration. Analysis of the social context, responsibilities, and risks associated with the role of a professional coach and the coaching profession.

PED 3040 Physical Education and Health for the Elementary Classroom Teacher (EDU) 3 s.h.

Designed to prepare elementary classroom teachers to teach Physical Education and Health. Topics include knowledge of PE and health curriculum, state and national standards, assessment, motor development, skills, fitness development, risk behaviors, instructional strategies and technologies. Prerequisites: EDU 2000 and EDU 3460.

PED 3650 Motor Development and Movement Education 3 s.h.

Survey of motor development and movement education theory and application as they relate to self-expression, development, and learning. Emphasis is placed on basic principles of physical, cognitive, and emotional development with attention to individual differences. Students learn strategies for planning, instructing, assessing, and evaluating motor skill development and fundamental movement patterns. Issues of safety are also addressed. Prerequisites: PED 2010; and BIO 2250 or BIO 2450.

PED 3300 Psychological Aspects of Fitness 3 s.h.

Introduction to key concepts in the field of sport and exercise psychology. Personal factors that affect performance and psychological development in sport, physical education, and exercise settings. Situational factors that influence behavior, group interaction and processes, and use of psychological techniques to help people perform more effectively, as well as roles psychological factors play in health and exercise. Prerequisite: PSY 1010.

PED 3350 Adapted Physical Education 2 s.h.

Basic survey of the philosophy and goals of adapted physical education, emphasizing the needs and characteristics of

students with disabilities. Students learn strategies for planning and instructing activities for the disabled student. Prerequisites: PED 2010 and BIO 2250.

PED 3370 Cardio and Strength/Conditioning Training 3 s.h.
In depth study of the effects of cardio training and strength training on the body. Modern techniques and training principles for cardio and strength training are discussed.

PED 3400 Physiology of Exercise 3 s.h.
Muscular, metabolic, and cardio-respiratory adaptations of the human body to acute and chronic exercise. Includes laboratory exercises designed for examining physiological response to exercise. Prerequisite: BIO 2250 or BIO 2450.

PED 3520 Curriculum and Instruction in Physical Education and Health 3 s.h.
An in depth study of curriculum development with emphasis on K-12 Physical Education and Health. Students learn to develop, implement, assess, and modify the curriculum in a manner consistent with best practices. Students explore their roles as advocates for health and wellness as it relates to the community and diverse learners. Prerequisite: PED 2010.

PED 3700 Exercise Prescription for All Populations 3 s.h.
Outlines why exercise is significant in the treatment and prevention of disease, advises students in considering proper exercise prescription protocols. Provides evidence-informed guidance on devising individual exercise programs for older adults, those with chronic diseases and other disabilities. Provides framework to help students understand and create wellness programs for weight control. Prerequisites: BIO 2450.00, BIO 2450.LB, BIO 2460.00, BIO 2460.LB.

PED 3750 Basic EKG 3 s.h.
The assessment and interpretation of an electrocardiogram (ECG). Students learn the characteristics of common ECG rhythms with 12-lead tracings to form an understanding of a normal ECG at rest and during exercise. Prerequisites: BIO 2450.00, BIO 2450.LB, BIO 2460.00, BIO 2460.LB.

PED 3810 Assessment: Team Sports 2 s.h.
The teaching, performance, analysis, and evaluation of selected traditional and non-traditional team activities. For those seeking K-12 Physical Education endorsement. Prerequisite: PED 2010.

PED 3820 Assessment: Individual Sports 2 s.h.
The teaching, performance, analysis, and evaluation of selected fundamental individual and team activities. For those seeking K-12 Physical Education endorsement. Prerequisite: PED 2010.

PED 4620 Instructional Methods of Teaching Secondary Physical Education 3 s.h.
The theory of instruction, methods, and materials for providing physical education for secondary students. The application of effective instructional theory, planning and practice of physical education, as well as sound decision making and multicultural approaches are emphasized in the field-based context. Observation of classroom procedures, participation in simulation, and teaching. Students participate in both lecture and laboratory experiences. Prerequisites: PED 3520 and acceptance to the Teacher Education Program.

PED 4630 Instructional Methods of Teaching PK - Elementary

Physical Education and Health 3 s.h.

The theory of instruction, methods, and materials for providing physical education and health for PK-elementary school children. The application of effective instructional theory, planning and practice of physical education and health, as well as sound decision making and multicultural approaches are emphasized in the field-based context. Observation of classroom procedures, participation in simulation, and teaching. Students participate in both lecture and laboratory experiences. Prerequisites: PED 3520 and acceptance to the Teacher Education Program.

PED 4640 Instructional Methods of Teaching Secondary Health 3 s.h.

The theory of instruction, methods, and materials for promoting health for secondary students. The application of effective instructional theory, planning and practice of health, as well as sound decision making and multicultural approaches are emphasized in the field-based context. Observation of classroom procedures, participation in simulation, and teaching. Students participate in both lecture and laboratory experiences. Prerequisites: PED 3520 and acceptance to the Teacher Education Program.

PED 4670 Measurement and Evaluation in Physical Education and Health 3 s.h.

The application of tests and measurements in the evaluation process in physical evaluation and health; evaluations of cognitive and affective learning, motor ability, health-related fitness, physical performance, and healthy behaviors. Prerequisites: PED 3520 and acceptance to the Teacher Education Program.

PED 4930 Practicum in Exercise Science 2 s.h.
Hands-on work experience in the exercise science arena. Application of practical knowledge of exercise science principles in an approved, supervised assignment. Final project. Prerequisite: Permission of program director.

Physics (PHY)

PHY 2530.00 General Physics I 3 s.h.
Fundamental methods of mechanics, molecular physics, heat, and sound. Opportunity for experiments at Argonne National Laboratory near Chicago. Lecture 3 hours, laboratory 3 hours. Prerequisites: MTH 1050 and MTH 1060, or MTH 1210, or the equivalent; or departmental approval. Co-requisite: PHY 2530.LB

PHY 2530.LB General Physics I Lab 1 s.h.
Experiments in the fundamental methods of mechanics, molecular physics, heat, and sound. Lab will meet for 3 hours per week. Prerequisites: MTH 1050 and 1060, or 1210, or the equivalent; or departmental approval. Co-requisite: PHY 2530.00.

PHY 2540.00 General Physics II 3 s.h.
Fundamental methods and principles of magnetism, electricity, optics, light, and atomic physics. Opportunity for experiments at Argonne National Laboratory near Chicago. Lecture 3 hours, laboratory 3 hours. Prerequisites: MTH 1050 and MTH 1060, or MTH 1210, or the equivalent; or departmental approval. (Offered Winter Semester.) Co-requisite: PHY 2540.LB

PHY 2540.LB General Physics II Lab 1 s.h.

Carry out experiments that would strengthen the fundamental methods and principles of magnetism, electricity, optics, light, and atomic physics. Lab will meet 3 hours per week.

Prerequisites: MTH 1050 and MTH 1060, or MTH 1210, or the equivalent; or departmental approval. Co-requisite: PHY 2540.00.

PHY 2630.00 Physics for Scientists and Engineers I 3 s.h.

For students planning to major in engineering, pre-medicine, chemistry, mathematics, and computer science. Motion and Newton's laws, energy, momentum, rigid-body mechanics, gravitation, simple harmonic motion, waves and sound, and thermal physics. Lecture 3 hours, laboratory 3 hours.

Prerequisite or corequisite: MTH 2510, PHY 2630.LB

PHY 2630.LB Physics for Scientists and Engineers I Lab 1 s.h.

This is the first of two calculus-based physics sequence for students planning to major in engineering, pre-med, chemistry, Mathematics and computer science. This course covers motion and Newton's laws, energy, momentum, rigid body mechanics, gravitation, simple harmonic motion, waves and sound and thermal physics. Lab will meet for 3 hours per week. Co-requisite: MTH 2510; PHY 2630.00.

PHY 2640.00 Physics for Scientists and Engineers II 3 s.h.

For students planning to major in engineering, pre-medicine, chemistry, mathematics, and computer science. Electricity, magnetism, electromagnetic waves, geometrical and wave optics, and the essence of modern physics. Lecture 3 hours, laboratory three hours weekly. Prerequisites: MTH 2510 and PHY 2640.LB

PHY 2640.LB Physics for Scientists and Engineers II Lab 1 s.h.

Experiments in electricity, magnetism, and optics. Nature of electric charges, electric field, magnetic field and concept of electromagnetic waves. Understanding wave interference, reflection and refraction of light waves. Fundamentals of mirrors and lenses and optical instruments. These would all be explored through experiments. Lab will meet 3 hours per week. Prerequisites: MTH 2510 and PHY 2630.00 and PHY 2630.LB. Co-requisite: PHY 2640.00.

PHY 2710.00 Fundamental Electronics 3 s.h.

Study of power and energy of A.C. and D.C. circuits; introduction to diodes, transistors, transducers, and their applications in circuits and modern instruments. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB or departmental approval. Corequisite: PHY 2710.LB

PHY 2710.LB Fundamental Electronics Lab 1 s.h.

Study of power and energy of A.C. and D.C. circuits; introduction to diodes, transistors, transducers, and their applications in circuits and modern instruments. Lab will meet 3 hours per week. Prerequisite: PHY 2540.00 and PHY 2540.LB or departmental approval. Co-requisite: PHY 2710.00.

PHY 3510.00 Modern Physics: Atomic and Nuclear 3 s.h.

Investigation of properties of atoms and the nucleus, the changes under the influence of relativity, and the impact of the quantum theory. Applications of instruments in studying nuclear reactions. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB or departmental approval. Corequisite: PHY 3510.LB

PHY 3510.LB Modern Physics: Atomic and Nuclear Lab 1 s.h.

Study of power and energy of A.C. and D.C. circuits; introduction to diodes, transistors, transducers, and their applications in circuits and modern instruments. Lab will meet 3 hours per week. Prerequisite: PHY 2540.00 and PHY 2540.LB or departmental approval. Co-requisite: PHY 3510.00.

PHY 4510.00 Electronics: Digital Techniques 3 s.h.

Number systems, digital codes, and Boolean algebra used in analysis of digital logic circuits; logic gates, encoding and decoding; Flip-flops, counters, register and integrated circuits. Introductions to interfacing: Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540.00 and PHY 2540.LB or PHY 2640.00 and PHY 2640.LB or equivalent; PHY 2710.00 and PHY 2710.LB recommended. Corequisite: PHY 4510.LB

PHY 4510.LB Electronics: Digital Techniques Lab 1 s.h.

Number systems, digital codes, and Boolean algebra used in analysis of digital logic circuits; logic gates, encoding and decoding; Flip-flops, counters, registers and integrated circuits. Introduction to interfacing. Lab will meet 3 hours per week. Prerequisite: PHY 2540.00 and PHY 2540.LB or equivalent; PHY 2710.00 and PHY 2710.LB recommended. Co-requisite: PHY 4510.00.

Political Science (PSC)**PSC 1010 World Problems (HIS*) 3 s.h.****PSC 1510 American Government 3 s.h.**

American political structure to include the organization, powers, functions, and services of national, state, and local government and their interdependence in seeking solutions to contemporary social, economic, and political issues.

PSC 2100 Law, Society, and Politics (LAW*/SOC) 3 s.h.**PSC 2350 American Judicial Process (CJ*) 3 s.h.****PSC 3030 International Relations 3 s.h.**

Analysis of world politics, sources of foreign policy, dynamics of the existing international system, systematic theorizing about future developments.

PSC 3410 Comparative Politics 3 s.h.

Comparative analysis of political phenomena, emphasizing the dynamics of power, governmental institutions, social-economic-cultural configurations, and patterns of values and ideologies among various countries.

PSC 3770 State and Local Government 3 s.h.

Analysis of state and local governments, local forces, trends in metropolitan and suburban politics, problems in planning in an age of urbanization and governmental relations.

PSC 3860 Public Policy and Advocacy in Aging (AGE*) 3 s.h.**PSC 3970 Research Methods in the Social Sciences (SOC*) 3 s.h.****PSC 4010 Political Parties and Elections 3 s.h.**

Examination of United States political parties and elections and their roles in the American system of government with a focus on the debates, controversies, and paradoxes implicit to political parties and elections.

PSC 4050 Constitutional Law (CJ*) 3 s.h.

PSC 4310 Political Theory 3 s.h.

Examination of the historical, theoretical, and qualitative explanations for basic concepts in the formation of government such as justice, liberty, political authority, and the public good. Through careful readings of primary texts, students are introduced to the body of philosophical thought on politics and governing that has developed over 2500 years.

PSC 4633 Global Studies: Modern Latin America (HIS*) 3 s.h.**PSC 4930 Political Science Internship 3 s.h.**

An internship that synthesizes course knowledge and applies it in an authentic workplace. Students work a minimum of 240 hours during the semester in an approved governmental, non-profit, or criminal justice position under the guidance of an on-site supervisor. Students write weekly journal entries that demonstrate integrated knowledge of the practical (in the field) experience and connections to course material covered. Students meet with a political science professor during the semester to discuss journal entries and progress toward course objectives. Students are evaluated on performance by the site supervisor upon conclusion of the internship hours.

PSC 4950 Senior Seminar 3 s.h.

Theoretical and philosophical foundations of social sciences, including a paper reflecting research skills and ability to synthesize discipline-specific content. Prerequisite: Senior standing in the major.

Population Health (POPH)**POPH 3500 Navigating the U.S. Health Care System 3 s.h.**

Examines current health care policies in the United States. Includes the analysis of how health care policy affects clients and health professionals. Critiques the structure, organization, and financing of the system and how to inform clients about options for care. Case studies provide an opportunity for application of what is learned in the classroom.

POPH 3610 Safety Across Health Care Settings 3 s.h.

The multifaceted dimensions of health systems which impact safety in a variety of care settings. Students learn to identify areas of risk, assess its severity, and communicate their findings so as to positively impact a culture of quality and safety. Prerequisite: POPH 3500.

POPH 3650 Quality and Clinical Transformation 4 s.h.

The processes involved in assessing and promoting quality care. Active identification, collection, and reporting of meaningful data so as to influence improvements in health care practice and outcomes. Prerequisite: POPH 3500.

POPH 4700 Health Promotion 3 s.h.

Examines the context of wellness and health promotion in health care in the United States. Several models and a variety of strategies for effective health promotion and disease prevention are examined. Emphasis is placed on designing and selecting evidence-based interventions to effect social and environmental change in mutual collaboration with individuals and families throughout the lifespan. Prerequisite: PSY 2450.

POPH 4900 Professional Role Seminar 2 s.h.

Using the first internship experience, students apply principles of professional values, ethics, communication, and

professional relationships. Students explore concepts in teamwork, leadership, ethical practice, social justice, and professional communication in the context of their field experience. Prerequisite: permission of department. Corequisite: POPH 4930.

POPH 4930 Population Health and Aging Internship I (AGE) 3 s.h.

An initial field experience to allow students to gain professionally supervised, practical experience in a health care or community service setting appropriate for their area of concentration and major. Students acquire knowledge and understanding of professional roles and practices, the network of resources and services, and the coordination required for effective continuity of care and delivery of programs and services. Prerequisite: Permission of department. Corequisite: MGT 3260.

POPH 4940 Population Health and Aging Internship II (AGE) 3 s.h.

A second field experience in a health care or community service setting appropriate to the student's area of concentration and major, providing a different or deepened level of care or practice, to allow students to gain professionally supervised, practical experience. Students acquire knowledge and understanding of professional roles and practices, the network of resources and services, and the coordination required for effective continuity of care and delivery of programs and services. Prerequisite: permission of department.

POPH 4950 Population health and Aging Senior Seminar (AGE) 2 s.h.

An in-depth examination and synthesis of the theoretical concepts, issues, and trends in population health and aging. Students present final projects that demonstrate integrated knowledge of their concentration and major as well as their achievement of program outcomes. Prerequisite: permission of department.

POPH 4960 Senior Seminar 2 s.h.

An in-depth examination and synthesis of the theoretical concepts, controversial issues, and trends in the Health Sciences major. Students present final projects that demonstrate integrated knowledge of the major and their achievement of program outcomes. Prerequisite: permission of department. Corequisite: POPH 4940. *(To be taken in the student's last semester.)*

Psychology (PSY)**PSY 1010 General Psychology 3 s.h.**

The science of behavior and mental processes: sensation and perception, learning and cognition, motivation, emotion, personality development, adjustment, and maladjustment.

PSY 1020 Controversies in Psychology: A Critical Thinking Approach 4 s.h.

Developing a critical thinking approach to reading, discussing, and writing about psychological literature. Recognition and evaluation of assertions, arguments, and evidence, and development in the expression of ideas verbally and in writing. Reading and discussion material on major controversies in the field, such as the role of nature vs. nurture, intelligence testing, repressed memory, continuity vs. change in personality, and the effectiveness of psychotherapy. Prerequisite: PSY 1010.

PSY 1030 Tools for Success in Psychology 1 s.h.

For psychology majors and individuals considering psychology major. Introduction to the American Psychological Association writing style, library research skills, portfolio requirements in the psychology major, career options in the field of psychology, and ethical principles in psychology. Prerequisite or corequisite: PSY 1010 or PSY 1020.

PSY 2450 Life-Span Developmental Psychology 4 s.h.

Study of the maturational and experiential influences on physical, emotional, intellectual, social, and personality development of the individual, from the prenatal period through late adulthood. Developmental tasks and theories of developmental change related to life stages. Prerequisite: PSY 1010.

PSY 2660 Social Psychology 3 s.h.

Focus on the complex ways in which human beings comprehend themselves and their social environment from psychological and sociological perspectives. Emphasis on social cognition, personality behavior, interpersonal attraction, aggression, attitude formation; the influence of culture and society on prosocial behavior, prejudice, conformity, power, and dynamics of the group. Examines the various research methodologies used in both disciplines. Prerequisite: PSY 1010.

PSY 2700 Child Psychology (FCS) 4 s.h.

Principles of growth, maturation, and learning relating to child development. Interaction of hereditary and environmental factors influencing the social, cognitive, and personality development of the child. Theories and research relative to the psychology of the child from the prenatal period through late childhood. Prerequisite: PSY 1010.

PSY 2760 Psychological Testing and Measurement 3 s.h.

Focus on the key concepts of psychological testing and measurement, including standardization, normative samples, types of reliability and validity, and item analysis. Coverage of psychometric considerations in test construction, different types of tests and their application, the meaning and limitations of test scores, historical background for the uses and misuses of testing. Ethical, professional, and social considerations in testing are also considered. Prerequisite: PSY 1010.

PSY 3010 Current Topics in Psychology 1 s.h. (max. 2 s.h.)

Reading and discussion of current research articles, focusing on topics in a different area of psychology each week. Topics change each time the course is offered, so it may be re-elected. Prerequisite: PSY 1010.

PSY 3020 Introduction to Motivational Interviewing 1 s.h.

Fundamentals of an evidence-based method of promoting change and growth by examining ambivalence and strengthening people's own motivation and commitment. Areas of application include behavioral change for health, wellness, and wellbeing, and successful adaptation to social environments. Useful for students in psychology, social work, addiction studies, education, management, corrections and in all health care disciplines. Prerequisites: PSY 1010.

PSY 3070 Psychology of Midlife and Aging (AGE*) 3 s.h.

PSY 3100 Health Psychology 3 s.h.

Study of the theory and research on the intersection between mind and body; stress, depression, and physical illness; the psychological impact of illness; empirically supported ways to change habits, such as smoking, overeating, or reluctance to

exercise; effective coping mechanisms; placebo effects; mindfulness and relaxation techniques; the impact of class and culture on health, and psychological interventions for pain. Useful for students in health care disciplines and in psychology. Prerequisite: PSY 1010.

PSY 3130 Adolescent Psychology (FCS) 4 s.h.

Nature of pre-adolescent and adolescent behavior and its underlying dynamics; systematic study of modern concepts of understanding and dealing with adolescent and pre-adolescent in our society. Emphasis on normal behavior development as it relates to the physical, emotional, social, and intellectual growth of adolescents. Prerequisite: PSY 1010.

PSY 3330 Psychological Issues in Child Abuse and Neglect 1 s.h.

From a psychological perspective, examination of why child maltreatment occurs and who commits such acts, the short- and long-term effects of child abuse/neglect, the various treatment strategies employed with abused children and their abusers, and the broad legal and societal issues raised by this phenomenon.

PSY 3340 Self-Destructive Behavior in Adolescent Girls 1 s.h.

The psychological bases for self-destructive behaviors in adolescent girls, including deliberate cutting of the skin, eating disorders, suicide and para-suicide, sexual promiscuity, gang membership, and substance abuse. Avenues for treatment and prevention also discussed.

PSY 3390 Addiction Studies: Dual Diagnosis (AS*) 1 s.h.

PSY 3420 Abnormal Psychology 4 s.h.

Nature of abnormal and deviant behavior and its underlying dynamics; systematic study of modern concepts of diagnosis, understanding, treatment and prevention of abnormal behavior patterns. Emphasis on normal behavior development as delineated by psychopathology. Prerequisite: PSY 1010.

PSY 3480 Psychosocial Domains of Palliative/End-of-Life Care (HSP*) 3 s.h.

PSY 3490 Psychology of Traumatic Experiences (EM) 1 s.h.

Discussion of risk factors, consequences, and interventions associated with traumatic events, such as abuse, developmental trauma, violence, moral injury, and other adverse circumstances. Useful for students in psychology, social work, addiction studies, education, emergency management, criminal justice, and in all health care disciplines. Prerequisite: PSY 1010.

PSY 3520 Industrial/Organizational Psychology (BUS) 3 s.h.

Application of concepts, theories, and methods from psychology to issues in the workplace. Topics include research methods, employee selection and assessment, performance appraisal, training and development, leadership, motivation, job satisfaction, job involvement, organizational structure, and organizational change and development. Prerequisite: PSY 1010.

PSY 3720 Introduction to Clinical Psychology 3 s.h.

An overview of current issues in the mental health field and an introduction to important skills needed by professionals in their day-to-day work. Students become familiar with diagnostic approaches, interviewing and clinical data gathering, types of psychological intervention, legal and ethical considerations, and how to recognize, understand, and minimize

psychologically inevitable gender and cultural biases often encountered in mental health settings. Prerequisite: PSY 3420.

PSY 3750 Mental Health Treatment Theories 3 s.h.

An intensive introduction to the most influential and prevalent treatment methods in the mental health field. Treatment approaches as discreet theoretical systems containing their own philosophical views of the person, conceptualizations of disorder, definitions of cure, and technical prescriptions. Problems in determining the efficacy of treatment approaches also addressed. Prerequisite: PSY 1010.

PSY 3820 Forensic Psychology (CJ) 3 s.h.

How the science of psychology is used by our legal system to better understand situations where an individual's state of mind or psychological functioning may have an impact on the legal process, the distinction between forensic and clinical work, conceptual underpinnings of forensic psychology, and the role of psychology in the legal system and controversies surrounding its use. Career paths and training issues also discussed. Prerequisites: PSY 1010.

PSY 3830 Research and Quantitative Methods I 4 s.h.

Developing basic knowledge and skills in conducting scientific research in psychology. Emphasis on the scientific method, research ethics, research design. Development of a research proposal. Prerequisite: PSY 1010 and PSY 1030; prerequisite or corequisite: MTH 2350 or equivalent.

PSY 3840 Research and Quantitative Methods II 4 s.h.

Developing basic knowledge and skills in conducting scientific research in psychology. Emphasis on measurement, descriptive and inferential statistics, and hypothesis testing. Development of an original research paper. Prerequisite: PSY 3830.

PSY 3870 Neurobiology of Drug Addiction (AS*) 1 s.h.

PSY 4100 Introduction to Clinical Theory I: Psychoanalytic Approaches 3 s.h.

An introduction to contemporary psychoanalytic theory that will provide an historical review of the development of the theory, grounding in its philosophical underpinnings, and an appreciation for areas of current debate. Overview of the main schools of psychoanalytic thought, including drive, object relations, ego psychology and self-psychology approaches. Focus on psychoanalytic concepts of special relevance to clinicians conducting assessments and treatment with child and adult patients: developmental theory, defense mechanisms, transference and countertransference, and brief psychodynamic treatment. Current empirical research concerning psychoanalytic treatment and concepts will be considered. Prerequisite: PSY 4770 and PSY 4775.

PSY 4220 Theories of Personality 4 s.h.

An overview of the major theories of personality, the role of personality theories in development, how various personality theories can be distinguished from one another, and an evaluation of these theories. Prerequisites: PSY 1010, junior or senior standing.

PSY 4300 Cognitive Psychology 4 s.h.

All aspects of human thinking, including attention, perception, memory, knowledge, language, problem solving, creativity, decision making, and intelligence. Attention given to current

research in areas such as mood-dependent memory, the power of suggestion in creating false memories, speed reading, and learning vocabulary, as well as the application of cognitive principles in everyday life. Course includes an on-line laboratory component in which students participate in a variety of experimental studies in various areas of cognitive psychology. Prerequisite: PSY 1010.

PSY 4400 Psychological Assessment I 3 s.h.

The fundamental issues and concepts within assessment, including test validity and reliability, with a focus on the adult patient. Students learn the administration, scoring, and interpretation of those instruments used to assess cognitive and intellectual functioning. Emphasis on the development of sophisticated, multi-level interpretations of assessment data, awareness of professional and ethical issues inherent in assessment, and the need for special considerations in assessing diverse groups. Prerequisite: PSY 4770 and PSY 4775.

PSY 4500 Behavioral Neuroscience (BIO) 4 s.h.

Scientific explanations of the neurobiological basis of behavior and evolution of the brain. Examination of nervous system structure and function; neuron biochemistry and neurotransmission; psychopharmacology; sensory and motor systems, physiological mechanisms influencing circadian rhythms, emotion, learning and memory, neurological disorders, psychological disorders, stress, and drug abuse. Prerequisite: PSY 1010.

PSY 4600 Psychopathology in Adults 3 s.h.

An introduction to the nature of psychopathology in adults and an in-depth study of the major diagnostic categories. Issues that arise in the definition of psychopathology in adults will be explored, followed by an explication of several approaches to clinical diagnosis of psychopathological syndromes and instruction in their use. Clinical syndromes will be studied by focusing on their major symptoms, courses and prognoses. In addition, current understanding of the disorder's etiology and phenomenology will be discussed, using biological, psychodynamic and social/cultural frameworks. The impact of multicultural factors upon diagnosis and the clinical presentation of the various syndromes will be considered. Prerequisite: PSY 4770 and PSY 4775.

PSY 4760, 4770 Mental Health Field Placement I,II 2, 2 s.h.

An intensive field placement experience in a clinical setting to develop students' clinical interaction skills and prepare them for jobs in the mental health field. Students will develop the ability to understand clinical material, document interactions, and prepare case reports and assessments. PSY 4760: Pre- or co-requisite PSY 3720; Corequisite: PSY 4765; and permission of the instructor. PSY 4770: Prerequisites: PSY 4760 and PSY 4765; Corequisite: PSY 4775.

PSY 4765, 4775 Mental Health Seminar I,II 3, 3 s.h.

An integrative seminar which augments supervision provided at the mental health field placement sites and provides additional support for students. Students engage in introspection regarding their experiences and hurdles encountered during field placement, and further develop, through an emphasis on case analysis and clinical observation presentations, the knowledge, skills, and values necessary to be successful in the field of clinical psychology. PSY 4765: Pre- or co-requisite: PSY 3720; Corequisite: PSY 4760 and permission of the instructor. PSY 4775: Prerequisites: PSY 4760 and PSY 4765; Corequisite: PSY 4770.

PSY 4840 Ethical Professional Practices (AS*/SW) 1 s.h.

PSY 4850, 4860 Advanced Research and Quantitative Methods I, II 3, 3 s.h.

In preparation for graduate studies, students develop advanced knowledge and skills in conducting scientific research in psychology. Emphasis placed on critical review and analysis of the scientific method, research ethics, research design, and measurement. Descriptive and inferential statistics are reviewed; multivariate statistical techniques are introduced. Application and synthesis for each student involving the development of a research proposal that qualifies as original research. Prerequisite: PSY 3840.

PSY 4950 Seminar in Psychology 2 s.h.

The capstone of the Psychology Major. A review and consolidation of material covered throughout the major. Preparation of a portfolio, including refining work completed for courses in the major and reflective writing on the departmental goals for the major. Includes focus on graduate school preparation and continued professional development. Prerequisite: senior standing.

Quality and Operations Management (QOM)

QOM 4230 Quality and Process Improvement Techniques 3 s.h.

Study of continuous process improvement, process management, and quality management systems. Includes case studies and group work which explore data analysis tools and methods, including SPC, flowcharting, and root-causes analysis. Students define, analyze, and evaluate a process in a workplace setting, preparing a final report outlining the process and recommending process improvement. Prerequisite: QS 2500.

Quantitative Systems (QS)

QS 2500 Principles of Data Analytics 3 s.h.

Explores the foundations of data analytics and the major concepts of descriptive, predictive, and prescriptive analytics in business organizations. Introduces and compares various types of data analytics models and methods, and explores the impact of data analytics on the creation of new initiatives, complex problem solving, and improving an organization's competitive advantage. Students have some hands-on experience in the use of a data analytics tool and its application to business problem solving. Prerequisite: MTH 2350.

QS 2550 Foundations of Data Analytics I 3 s.h.

Students will learn the basic concepts of data inference and analysis using actual data and will be able to analyze large data sets and present their findings. Prerequisite: QS 2500.

QS 2610 Foundations of Data Analytics II 3 s.h.

Exploration of how Data Analytics are applied within the workforce. Particular attention will be paid to the role of the Data Scientist or Analyst, machine learning, and the applications of Big Data. Prerequisite: QS 2500.

QS 3120 Data Mining and Business Intelligence 3 s.h.

Explores the theories and concepts of data analytics for business intelligence and the techniques, skills, and tools used in predictive analytics. Introduces and compares various types of data mining models and methods and explores the implications of using those methods and skills in business analysis, monitoring, prediction, and alert. Students gain hands-on experience with the use of these data mining tools for business problem analysis, planning, and forecasting. Prerequisite: QS 2500.

QS 3220 Prescriptive Analytics for Managerial Decisions 3 s.h.

Explores the models and methods of prescriptive analytics. Introduces the theories, concepts, and models in prescriptive analytics and discusses how these models are used to solve complex problems and provide decision analysis recommendations and insights for business managers performing business planning, supply chain optimization, customer acquisition, sales and marketing. Some hands-on experience with the use of machine learning and prescriptive analytics tools is given. Prerequisite: QS 2500.

QS 3300 Business Analytics I 3 s.h.

Students learn how to use the most common business analytics tools, and build foundational skills in SQL and Tableau to extract, analyze, and visualize data. Content includes database design, hypothesis testing, and big data nuances. Prerequisites: QS 2610, MTH 2350.

QS 3310 Business Analytics II 3 s.h.

Students use spreadsheets for more advanced analyses and data manipulations. Learning Python programming will help students solve a wider range of data problems by expanding their data analytics toolbox. Predictive models are also introduced in this class. Prerequisites: QS 3300.

QS 3500 Applied Business Statistics 3 s.h.

In this course, students will learn how Data Analytics combines data, computation and inferential thinking to solve challenging problems and understand their intricacies. This class examines key principles and techniques of data science, and teaches students how to create informative data visualizations. It also explores particular concepts of linear algebra, which are central to Data Science. Prerequisites: QS 2500, QS 2610.

QS 3550 Applied Business Statistics 3 s.h.

Applied study of computerized statistical analyses as they relate to general business operations. Statistical procedures include descriptive statistics, t-test, ANOVA, two-way ANOVA, chi-square, simple correlation. Case study methodology is heavily employed. A computerized data analysis project which uses a minimum of two statistical tests is required. Prerequisites: MTH 2350, and junior standing.

QS 3570 Principles and Techniques of Data Analytics II 3 s.h.

This course builds on the principles and techniques of Data Analytics-I, to provide students with a more robust understanding of the tools of a Data Scientist. Data Analytics combines data, computation, and inferential thinking to solve challenging problems to thereby better understand the world. This class explores key principles and techniques of data science, including quantitative critical thinking and algorithms for machine learning methods. Healthcare marketing, political science, and criminal justice are a few of the fields that use data analytics. Prerequisites: QS 2500, 2610, 3500.

QS 4150 Social Media Analytics and Web Mining 3 s.h.

Teaches the basic techniques and skills in social media analytics, web mining, and social network analysis. Explores the methods and tools of data acquisition from social media platforms and internet pages and introduces the text analysis steps and methods for opinion mining, event classification, and clustering. Explains the techniques and skills of sentiment analysis, statistical analysis, social network analysis, cluster segmentation and classification, and cause-and-effect analysis. Students gain hands-on experience with using text mining tools and social media analytics tools. Prerequisite: QS 2500.

QS 4240 Big Data Analytics and Visualization 3 s.h.

Introduces the fundamental concepts of big data analytics and explores the integrated use of different data analytics methods such as data mining, text mining, machine learning, and social media analytics, for business analysis, innovation and insights creation. It discusses big data visualization methods such as networks, graphics, multidimensional data, linkages, clustering and augmented visual and auditory for efficient communication of data results, relationships and hierarchies for innovative creation and market insights analysis. It will also discuss the innovative solutions of big data analytics in business, finance, healthcare, sales and marketing sectors. Hands-on experience using big data analytics and visualization tools is provided. Prerequisites: QS 2500.

QS 4910 Internship 3 s.h.

Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

Religious Studies (RST)**RST 1330 Survey of Christianity 3 s.h.**

A survey of Christianity, its origins, teachings, customs, and rituals, as well as its historical highlights and impact on world beliefs, with special emphasis on how the life of St. Francis of Assisi exemplifies Franciscan values.

RST 1450 Survey of Western Religions 3 s.h.

A survey of religions of the Western hemisphere, with particular focus on Judaism, Christianity, and Islam, their historical backgrounds, religious beliefs, liturgies, customs, and values.

RST 1460 Survey of Eastern Religions 3 s.h.

A survey of the major religious traditions of Asia, including Hinduism, Sikhism, Jainism, Buddhism, Inner Asian Shamanism, Confucianism, Taoism, And Shinto; their historical backgrounds, cultural contexts, beliefs, meanings, values, and customs.

RST 1500 Catholicism 3 s.h.

Study of the doctrines, practices, and persons formed by and reflective of the Catholic tradition in history and in the Vatican II ecumenical experience, and particularly as epitomized in St. Francis of Assisi and in Franciscan values.

RST 2150 History of the Church 3 s.h.

An examination of the history of the Church from its earliest beginnings in Palestine through the Second Vatican Council. All major and significant episodes of the history of the Church are covered, with more in-depth study of the Crusades and the Protestant Reformation. Students are also provided some

familiarity with Christian thinkers who have made significant contributions to Church doctrine and theology.

RST 2240 Theology of Ministry 3 s.h.

A study of the biblical foundations, theology, history, and development of the Christian concept of "ministry" or service with focus on the apostolate and contributions of the laity in the life of the Church, the priestly ministry, and lay ecclesial ministry.

RST 2560 Old Testament: Torah and Historical Writings 3 s.h.

An in-depth study of the Hebrew Scriptures, from the Pentateuch to the historical writings, with special focus on major historical events that form the foundation of Judaism, and Old Testament theological themes of creation, election, exodus, covenant, exile, monotheism, and fidelity.

RST 2570 Old Testament: Prophets and Wisdom Literature 3 s.h.

A study of the Books of the Prophets and the Wisdom and Deuterocanonical Literature, with an emphasis on their historical ground, role in the development of Judaism, and theological significance. Particular focus on Old Testament themes of election, covenant, exile, monotheism, faithfulness, and justice.

RST 2580 New Testament: The Four Gospels 3 s.h.

A study of the historical development and foundations of the four Gospels, with special focus on themes and theological perspectives unique to each and on the distinctive approaches of the four evangelists to the life, message, death, and resurrection of Jesus Christ.

RST 2590 New Testament: Acts, Epistles, and Revelation 3 s.h.

A study of the development of the Christian Church in the first century A.D., of the epistles that reflect its unique concerns, and of the historical background, symbolism, and theology of the Book of Revelation.

RST 2990 Catholic Social Teaching for the 21st Century 3 s.h.

Examination of significant themes of Catholic Social Teaching (including the dignity of the human person; social, political, and economic life; justice and peace; and care for the environment) and Franciscan values through a study of Church documents and the witness of St. Francis of Assisi. Focus on the implications of Catholic social justice teachings for the shaping of social institutions and policies.

RST 3030 Spirituality of Aging (AGE*) 1 s.h.**RST 3100 Franciscan Values, Social Justice, and Service 3 s.h.**

Study of the life and legacy of Francis of Assisi as a prism for exploring social justice issues and the key Franciscan values not only essential to the Catholic perspective on the world and human existence, but also relevant to the perspectives of other religious traditions of the world. Analysis of the implications for addressing ecological responsibility and the call to justice, peace, and respect for all persons.

RST 3150 Christian Spirituality 3 s.h.

Study of the Christian experience of the relationship between God and God's people as reflected in the history of the Christian religion. Examination of the major schools and figures that have contributed to Christian approaches to union with

God through the practice of the Christian life, prayer, mysticism, and contemplation.

RST 3220 Catholic Moral Theology 3 s.h.

Focus on Catholic moral decision making and the Catholic moral tradition. Examination of the scriptural and natural law foundation for morality, the freedom of the will, and the objective good, with an in-depth comparison of modern moral theories such as proportionate good, situation ethics, etc., with the school of moral absolutes. Consideration of such topics as sexual morality, contraception, abortion, the ethics of war and self-defense, truth-telling, and conscience and the formation of conscience.

RST 3310 Mary, the Madonna, Woman of Faith 3 s.h.

A study of Mary's role and significance in the covenant of redemption, with an examination of Mary in Scripture, Church teaching and tradition, prayer, liturgy, art, and music.

RST 3410 Sustainability: Vision and Values (HUM*/SOC) 3 s.h.

RST 3490 Worship and Sacraments 3 s.h.

Overview of the historical, theological, spiritual, and cultural aspects of the Christian worship of God with a focus on the meaning of Christian prayer, symbols, and ritual. Includes an examination of the biblical roots and development of the seven sacraments of the Church.

RST 3530 Marriage and the Family (FCS/SOC) 4 s.h.

Marriage and family studied from the Biblical, theological, economic, technological, and sociological aspects. (Interdisciplinary.) Prerequisite: junior or senior status.

RST 3610 Pastoral Counseling 3 s.h.

Introduction to the field of pastoral care and counseling. A presentation of theological, pastoral, and psychological foundations of pastoral care and counseling; investigation of skills and techniques for this special type of caregiving; and analysis of various areas of need typically encountered by those involved in pastoral ministry.

RST 3750 Special Topics in Religious Studies 1-4 s.h. (max. 6 s.h.)

Focus on specialized topics in the areas of religious studies, theology, or pastoral ministry. Prerequisites vary. Topics vary; may be repeated for credit with a new topic.

RST 3802 Palliative/End-of-Life Issues: A Lourdes Experience (HSP*) 3 s.h.

RST 4080 Moral Issues in Business (PHL) 3 s.h.

Review traditional philosophical theories of ethics; examine principles of Christian morality, particularly those dealing with ethics from a Catholic perspective; investigate areas in the American marketplace that raise ethical concerns (e.g., injustices in the American economic system).

RST 4090 Environmental Ethics (PHL) 3 s.h.

Study of moral/ethical dilemmas of equitable and responsible stewardship over creation. Judeo Christian/Franciscan, non-western perspectives of contemporary issues of war and peace, abundance and want, stewardship and domination, excess and poverty, etc., are explored.

RST 4110 Medical Ethics (PHL) 3 s.h.

Study of contemporary moral/ethical issues in modern health care, the life sciences, and future developments, including

from the perspectives of Judeo-Christian and other faith traditions. Prerequisite: junior or senior status.

RST 4140 Life/Death Issues 4 s.h.

Intensive study of death, bereavement, grief, and mourning. In addition to physical death, topics include alienation, aging, separation, personal violation, and social and phenomenological death. Prerequisites: junior or senior status.

RST 4150 Philosophy of Religion (PHL*) 3 s.h.

RST 4160 Ecclesiology 3 s.h.

Examination of the theology of Church: its nature, founding, authority, scriptural foundations and background, its communal structure, sacramental nature, salvific purpose, relation to the Incarnation, Mary, and the Eucharist, and the role of the laity.

RST 4170 Church Music (MUS*) 2 s.h.

RST 4230 Metaphysics (PHL*) 3 s.h.

RST 4240 Christology 3 s.h.

An exploration of the person of Christ and his salvific mission, tracing the development of Christological thought over the centuries, through the biblical materials, the work of theologians, conciliar decisions, modern and contemporary discussions, and ecumenical dialogue.

RST 4260 Mystery of God 3 s.h.

Exploration of the central issue in Christian faith, life, and theology – the question of God and God's relation with the world. Examination of: the biblical witness to foundational Jewish and Christian experiences of God; the development of dogma and of reflection on God in the Christian theological tradition; the resurgence of attention to the doctrine of the Trinity in contemporary theologies; how implications of beliefs about God influence human life, values, and ethics. Prerequisite: Permission of program director required.

RST 4930, 4940 Internship 1-3 s.h. each

Participation in a service-oriented capacity in an apostolate, ministry, or parish, usually lasting a semester. Written reflection on the experience. Prerequisite: permission from the department chair.

RST 4960 Capstone Project 1 s.h.

The capstone project of the Religious Studies major reflects the student's concentration and goals. It takes the form of a thesis in theology, a summary of reflection upon a ministry experience, or a synthesis of a significant focus/theme in the academic program. The project is selected in consultation with the student's RST advisor and is designed to integrate Religious Studies course content and achievement of program outcomes.

Sign Language Studies (SLS)

SLS 1000 Sign Language in Society 3 s.h.

A survey of American Sign Language and Deaf culture. Emphasis on Sign Language structure, history, and usage. Discussion of a sociocultural perspective of Deaf people, including readings from anthropology, sociology, linguistics, and education. Includes an examination of American attitudes toward Sign Language and Deaf culture.

SLS 1015: Beginning American Sign Language I 3 s.h.

Development of basic ASL communication skills with appropriate vocabulary and grammatical structures. Emphasis on communicative and linguistic functions. Prerequisite or corequisite: SLS 1000

SLS 1020.00 Beginning American Sign Language II 3 s.h.

Development of basic ASL communication skills with appropriate vocabulary and grammatical structures. Emphasis on communicative and linguistic functions. Prerequisite: SLS 1000 and SLS 1015.

SLS 1020.LB Beginning American Sign Language II Lab 1 s.h.

Guided laboratory practicum: Foundational activities building on basic receptive skills with application to real interactions along with reflection and research. Prerequisite: SLS 1020.00.

SLS 2010.00 Intermediate American Sign Language I 3 s.h.

Review of ASL grammatical features and further development of communication functions at the intermediate level. Prerequisites: SLS 1020.00 and SLS 1020.LB or placement. Corequisite: SLS 2010.LB

SLS 2010.LB Intermediate Sign Language 1 Lab 1 s.h.

Guided laboratory practicum: Continuation of foundational activity building on basic receptive skills with increased use of visual spatial space. Corequisite: SLS 2010.00

SLS 2020.00 Intermediate American Sign Language II 3 s.h.

Review of ASL grammatical features and further development of communication at the intermediate level. Prerequisites: SLS 2010.00 and SLS 2010.LB or placement. Corequisite: SLS 2020.LB

SLS 2020.LB Intermediate Sign Language II Lab 1 s.h.

Guided laboratory practicum: Students will begin modeling ASL discourse and make applications to mock settings and real world settings. Corequisite: SLS 2020.00

SLS 2110 Orientation to Deafness 3 s.h.

A survey of clinical and developmental aspects of hearing and deafness. Includes discussion of basic audiology, deaf education, and communicative implications of hearing loss. Prerequisite: SLS 1000.

SLS 2310 Deaf Culture 3 s.h.

Examination of Deaf culture through the lens of intersectionality and exploration of how various social, cultural, and identity factors intersect within the Deaf community. Analysis of how hearing society shapes and influences Deaf culture, both historically and in contemporary contexts. Investigation of the global diversity of Deaf experiences through the use of literature, media, and narratives from Deaf communities around the world, with an emphasis on cross-cultural perspectives. Prerequisite: SLS 1000.

SLS 2450 Deafness and Community Resources 3 s.h.

History and evolution of community resource development as a contributing force behind social change within a Deaf Community. Covers topics such as education, vocational rehabilitation services, community mental health programs for Deaf persons, and community service agencies (national, state, and local). Prerequisite: SLS 1000.

SLS 3010.00 Advance American Sign Language I 3 s.h.

Advanced American Sign Language development with a focus on text analysis of English and ASL content to increase

student vocabulary and understanding of ASL syntactical patterns. Communicative dialogues will highlight the socio-cultural and historical aspects of ASL etymology. Prerequisite: SLS 2020.00.

SLS 3010.LB Advanced American Sign Language I Lab 1 s.h.

Guided laboratory practicum: Students will continue modeling ASL discourse and make applications to mock settings and real world settings along with analysis of distinctive ASL features seen in ASL storytelling. Prerequisite: SLS 2020.00.

SLS 3020.00 Advanced American Sign Language II 3 s.h.

Advanced American Sign Language development utilizing increased grammatical complexity through continued emphasis on ASL syntactical patterns through different scenarios and nuances. Prerequisite: SLS 3010.00.

SLS 3020.LB Advanced American Sign Language II Lab 1 s.h.

Guided laboratory practicum: Increased complexity of ASL discourse in a variety of real word settings. Prerequisites: SLS 3010.00 and SLS 3020.00.

SLS 3290 Fingerspelling and Numbers in ASL 2 s.h.

Concentrated instruction in practice of fingerspelling, numbering, and loan signs at increasing levels of complexity. Corequisite: SLS 2020.00.

SLS 3410 Fundamentals of Interpretation and Transliteration 3 s.h.

Introduction to the theory, practice, and criticism of interpretation and transliteration: simultaneous and consecutive. Study of various models of the interpreting and transliterating processes, problems of linguistic and communicative equivalence, historical foundations, and professional issues. Prerequisite: cumulative GPA of 3.0 in SLS courses: departmental approval.

SLS 3470 Deaf People and the Law 2 s.h.

Presents the history and evolution of civil rights laws affecting individuals in the Deaf Community and the impact on integration into society. Details federal laws, such as the Americans with Disabilities Act, as well as state special education laws, laws governing interpreters, housing, employment and other related laws and regulations that affect the daily lives of Deaf citizens. Prerequisite: SLS 1000.

SLS 3810 American Sign Language: Registers 3 s.h.

Exploration of the structure and use of discourse in American Sign Language (ASL), with a focus on the transliteration process of converting English into ASL while preserving context, meaning, and cultural nuances. Examination of ASL Expansions and English Compression strategies to aid students in the transliteration process while considering the goals, units, and details of each translation. Prerequisite: SLS 3810.

SLS 4010 American Sign Language: Discourse 3 s.h.

Ongoing interaction in Sign Language. Students are required to prepare lectures, presentations (informative, descriptive, etc.), and conduct interviews in American Sign Language. Prerequisite: SLS 3020.00

SLS 4020 American Sign Language: Structure 3 s.h.

Analysis of the symbolic and linguistic structure of American Sign Language and English. Includes aspects of phonology, morphology, syntax, and semantics. Examination of bilingual practices and related research. Prerequisites: SLS 3010.00 and SLS 3010.LB.

SLS 4040 ASL Literature and Drama 3 s.h.

The use of American Sign Language as a form of story-telling, poetry, and drama. ASL literature is analyzed and incorporated as part of receptive/expressive language development and advanced skills enhancement. Includes exploration of the canons of Deaf literature and drama. Prerequisite: SLS 3020.00 or departmental approval.

SLS 4250 Contrastive Text Analysis: ASL and English for Interpreters 3 s.h.

Analysis of various texts in ASL and English to identify structures unique to one language or the other. Problems of translation and/or interpretation. Includes discussion of cross-cultural communication between deaf and hearing cultures. Prerequisite: SLS 4850.

SLS 4450 Simultaneous Interpretation for Interpreters 3 s.h.

A practical course in the process of interpreting from ASL to English and from English to ASL. Emphasis is on a sociolinguistic model of interpretation. Related linguistic processes are examined. Prerequisites: SLS 3410

SLS 4610 English to ASL: Interpreting Laboratory 3 s.h.

Development of skills in spoken English to ASL interpreting. Audio- and videotaped discourse is interpreted into ASL, and recorded and analyzed with the instructor. Prerequisite: SLS 4450.

SLS 4710 Selected Seminar Topics 1 s.h. (max. 4 s.h.)

Workshops or seminars include topics related to the Deaf community, Deaf culture, Sign Language, education, and related issues. *(May be repeated for credit, as topics vary.)*

SLS 4750 Interpreting in Specialized Settings 1-3 s.h. (max. 6 s.h.)

Emphasis on specialized settings in which interpreters are expected to function. A range of interpreting settings and situations is examined, such as: deaf/blind, hospital/ medical, religious, and community-based situations. Prerequisite: SLS 3410.

SLS 4810 ASL to English: Interpreting Laboratory 3 s.h.

Focus on ASL to spoken English interpreting. Videotapes and in-class speakers provide interpreting exercises for the student. ASL to English interpreting techniques discussed and put into practice. Prerequisite: SLS 4450.

SLS 4850 Advanced Interpreting Laboratory 2 s.h.

A targeted, in-depth synthesis of English to ASL/ASL to English skills for both interpreting and transliterating. Includes individual and peer assessment through analysis of weekly laboratory assignments. Discussion and practice of specialized techniques and settings, such as team interpreting, video relay interpreting, and sight interpreting. Prerequisites: SLS 4610 and SLS 4810.

SLS 4900 Interpreter Assessment and Credentialing 2 s.h.

Preparation for state and national certification examinations for professional interpreters. Exposure to the written and performance testing experience. Requires successful completion of state written examination and completion of national written qualifying examination. (Examination fees include membership in the Michigan Registry of Interpreters for the Deaf and the Registry of Interpreters for the Deaf.) Includes opportunities for students to experience simulated examinations. Prerequisite: SLS 4850.

SLS 4930 Field Observation: ASL Interpreting 2 s.h.

Observation of sign language interpretation within the community in a variety of settings including educational, religious, medical, legal, corporate, and others. Prerequisites: SLS 4850 and departmental approval.

SLS 4940 Field Practicum: ASL Interpreting 2 s.h.

Practicum conducted in settings equipped to provide application of interpreting/transliterating principles. Includes in-depth experiences in delivering interpreting services within the confines of state and national law. Provides experiences with various age groups, language preferences, and interpreting models reflective of current practices in the profession. Requires guided reflection with instructor on regular basis. Prerequisite: SLS 4930.

SLS 4941 Field Placement: Deaf Community Studies 3 s.h.

Observation and practicum in community-based service organizations and agencies, educational programs, vocational rehabilitation, or related areas. Documentation of placement-related experiences with on-site personnel. Requires guided reflection with instructor on regular basis. Prerequisite: SLS 2450 and SLS 3470, and departmental approval.

SLS 4950 Senior Seminar 2 s.h.

Capstone course for senior-level students in the Department of Sign Language Studies. Students construct electronic/video portfolios of their academic and professional work in the respective areas of concentration (either Deaf Studies or Interpreting). After passing a written comprehensive examination, the culminating demonstration of students' program accomplishments is made through a presentation to peers and faculty. *To be taken in the student's final academic year of the program.*

Social Science (SSC)

SSC 3070 Social Studies Foundations (EDU) 3 s.h.

This course will prepare the future elementary Michigan teacher to be competent and confident in the basics of social studies curriculum and teaching. Candidates will demonstrate knowledge for teaching the major concepts and modes of inquiry from across social studies domains to promote all elementary student's abilities to make informed decisions as citizens of a culturally diverse, democratic society and interdependent world. Prerequisites: SOC 1020, and PSC 1510 or GEO 3050.

SSC 3080 The Nature and Scope of Inquiry 3-4 s.h.

Theme-based, highly interactive interdisciplinary course designed to enable students to explore the different approaches and ways of knowing that contribute to understanding and resolving complex issues, problems, or dilemmas of contemporary life. Utilizing the different modes of inquiry which characterize the various disciplines, the course involves students in readings, discussions, works of art, lectures by experts, team collaboration, and independent research. The course focuses on a compelling theme and is designed to develop the commitment to intellectual inquiry, humanistic values, and service to others as embodied in the mission of Madonna University.

SSC 4960 Social Science Seminar 3 s.h.

Theoretical and philosophical foundations of social sciences, including a paper reflecting research skills and ability to synthesize discipline-specific content. Prerequisite: Senior standing in the major.

Social Work (SW)

SW 2140 Conflict Resolution (SOC*/EDU) 1 s.h.

SW 2160 Empathy Listening Skills (SOC) 1 s.h.
Instruction and practice in the establishment of rapport with individuals through the use of empathetic listening skills. The material is presented in the context of developing a helping relationship.

SW 2310 Introduction to Social Work 3 s.h.
Introduces the profession of Social Work, the roles of the generalist social work practitioner, and the profession's Code of Ethics. Emphasizes client systems from a strengths perspective and the positive value of diversity and difference. Explores the profession's historical development, commitment to human rights and social and economic justice, current trends, and acquaints students with fields of practice. Stresses self-assessment and critical thinking skills to determine suitability for a career in social work.

SW 3010 Special Topics in Social Work 1-3 s.h. (max. 10 s.h.)
Specialized topics of interest related to social work practice. Open to majors and non-majors.

SW 3400 Human Behavior and the Social Environment I 3 s.h.
First of two courses examining biological, social, cultural, psychological, spiritual perspectives of human behavior, emphasizing interaction of these dimensions as they impact social functioning within the ecological systems framework. Introduces concepts of context and environment, diversity and difference, oppression, poverty, marginalization and alienation, privilege and power, as they shape human experience and identity. Includes reflection on developmental influences affecting student's own values, world view, and professional influences affecting student's own values, world view, and professional development. Prerequisites: BIO 1010.00 and BIO1010.LB, or BIO 2250; SOC 1020.

SW 3410 Human Behavior and the Social Environment II 3 s.h.
Second of two courses examining dimensions of human behavior and the social environment. Builds upon theories and approaches presented in SW 3400; HSBE I, with a focus on human behavior development across the life course and the social system's role in promoting or deterring health and well-being. Further explores intersection of diversity and difference, social justice and oppression as relates to a person's life experiences. Stresses positive value of human diversity in social work practice. Prerequisite: SW 3400; prerequisite or corequisite: PSY 1010 and SW 2310.

SW 3450 Practice Methods I: Individuals 3 s.h.
First in a sequence of four methods courses grounded in the generalist model of social work practice. Orients to the application of engagement, assessment, evidence-based intervention, and evaluation with individuals. Focuses on diversity, difference, and the utilization of knowledge, skills, and values in social work with individuals. Prerequisites or corequisite: SW 2310 and SW 3400.

SW 3750 Practice Methods II: Groups and Families 3 s.h.
Second in a sequence of four methods courses grounded in the generalist model of social work practice. Applies knowledge, skills, and values in working with families and groups. Interprets human behavior within the context of a family's or group's culture, ethnicity, worldview, strengths,

developmental stages, and challenges within a systems theory framework. Develops practice skills and methods of engaging, assessing, intervening, and evaluating with families and groups. Prerequisite: SW 3450 with a grade of C (2.0) or better.

SW 3850 Program Planning in Community-Based Agencies 3 s.h.

Examines the processes of strategic planning and program development in human service organizations. Identify social problems, research best practices, design new programs, budget, allocate resources, implement, and evaluate new programs. Develops the analytical and interpersonal skills necessary for program planning and management. Explore the politics of planning in an organizational, inter-organizational, and community context. Practice problem formulation and program planning related to an area of specialization, and design a social services program addressing a real-world social problem.

SW 3960 Social Research Methods 4 s.h.
Prepares students to become educated consumers of evidence-based social work and social science research to inform and improve practice, policy, and social service delivery. Orients to scientific and ethical approaches to building knowledge through the use of quantitative and qualitative research processes. Emphasizes importance of understanding ethical considerations when conducting research with human subjects. Prerequisite: SW 2310.

SW 4040 Proposal Writing and Grant Administration (AGE*/EM/SOC/SW) 3 s.h.

SW 4260 Social Welfare History and Policy 4 s.h.
Explores the profession's social welfare system from a philosophical and historical basis examines the characteristics of contemporary social welfare policy in the United States. Critically analyzes major social policies and identifies how international, federal, state, local, and agency-based policy influences social work practice and delivery. Examines strategies for changing policy with particular emphasis on social justice, human rights, and vulnerable populations. The course includes a mandatory policy-focused field day. Prerequisites: PSC 1510 and admission to the Social Work Program.

SW 4320 Social Work and Services 3 s.h.
Prepares students to perform managerial functions in public, nonprofit, and faith-based human service organizations. Specific attention is given to the topics of leadership, human resources, fund development, structure and governance, resource management, and efforts to link human service organizations through a comprehensive system of care.

SW 4500 Practice Methods III: Organizations and Communities 3 s.h.

Methods course grounded in the generalist model of social work practice. Analyzes organizational characteristics and behavior in preparation for advancing effective service delivery. Develops practice skills and methods for engaging, assessing, and intervening in organizations, agencies and communities. Examines macro level perspectives focusing on oppression, discrimination, poverty, marginalization, alienation, factors of diversity and difference as well as being sources of privilege and power as they impact social wellbeing. Focuses on effective, ethical, and professional practice within human service agencies, organizations and at the community level.

Prerequisites: SW 3410, SW 3750, and admission to the Social Work Program.

SW 4760 Interpersonal Violence 3 s.h.

Focuses on context and dynamics of interpersonal violence, with a focus on theories for prevention and intervention in addressing interpersonal violence. It emphasizes using an ecological systems perspective to assess and engage the multiple influences that contribute to interpersonal violence, including social, psychological, biological, cultural, and institutional. A variety of forms of interpersonal violence, the dynamics of those social relationships will be explored. The impacts of abuse on victims, perpetrators, families, communities and the most common forms of prevention and intervention in interpersonal violence.

SW 4770 Animal-Assisted Therapy and the Human/Non-Human Animal Bond (ANS*) 3 s.h.

SW 4800, 4900 Field Practicum I, II 4, 4 s.h.

Field education component involving 200 clock hours per term of direct service taken concurrently with Field Seminar (SW 4850 and SW 4950). This is the "signature pedagogy" of social work education. Working under social work supervision, students apply the knowledge, skills, and values of generalist social work practice with client systems of all sizes. Refining of skills to engage, assess, intervene, and evaluate within the profession's values and ethics. Provision of a structured learning opportunity to integrate theory and practice in the role of social work practitioner. Prerequisites: all junior-level social work courses. Prerequisites or corequisites for SW 4800: SW 4260, SW 4500; corequisite for SW 4800: SW 4850. Prerequisites or corequisite for SW 4900: SW 4960; corequisite for SW 4900: SW 4950. Formal admission to Field Practicum is required.

SW 4810 Leadership in Community-Based Social Work Settings 3 s.h.

Provides an introduction to community-based organizations from an eco-systems perspective. Explores the external and internal forces that impact the performance of community-based organizations; major theories of organizational management and leadership for effective social work administration and planning. Examines personal values; develop, demonstrate and promote the values of the profession. Analyzes ethical dilemmas and how these affect practice in a variety of community-based settings. Promotion of self-determination, equity, social and economic justice in community-based settings are emphasized.

SW 4820 Community Action Strategies 3 s.h.

Provides students with a structured overview of community action strategies. Defines and characterizes power and leadership dynamics in community; economic and class issues; determinants of health that relate to community; community assessments; and approaches and tools to use when conducting and evaluating community-organizing initiatives. Prepares students to facilitate community involvement in decision-making systems with a focus on diverse communities.

SW 4840 Ethical Professional Practice (AS*/PSY) 1 s.h.

SW 4850, 4950 Field Practicum Seminar I, II 2, 2 s.h.

Integrative seminar taken concurrently with Field Practicum I and II (SW 4800 and SW 4900). Students reflect upon experiences and challenges of field practicum. Focus is on evaluating and supporting the integration and application of

knowledge, skills, and values of generalist social work practice from course work to field. Students demonstrate the professional use of self, self-awareness, appreciation for diversity and difference. Agency data, reports, and forms are reviewed to further develop skills in research and in program and practice evaluation strategies. Prerequisites: all junior-level social work courses. Prerequisites or corequisites for SW 4850: SW 4260, SW 4500; corequisite for SW 4850: SW 4800. Prerequisites or corequisites for SW 4950: SW 4960; corequisite for SW 4950: SW 4900.

SW 4960 Senior Integrative Capstone 3 s.h.

Using critical thinking to integrate social work knowledge, skills, theory, evidence, and values relating to person-in-environment. The course builds upon all previous courses and fields internships in the curriculum, using a multi-level analysis and reflection process on professional self and population of engagement. Taken concurrently with the second semester of field placement. Corequisites: SW 4900 and SW 4950.

Sociology (SOC)

SOC 1020 Introduction to Sociology 3 s.h.

Foundations and principles of social order, social control, social institutions, and social life in America and other cultures. Focus on how people's conditions, character, and life chances are influenced by organizations and institutions. Emphasis on critical thinking about practices and beliefs in a variety of social contexts.

SOC 1300 Introduction to Community Leadership 1 s.h.

Introduces the skills needed for active civic engagement with the goal of positive community transformation. Exploration of civic engagement, community involvement, advocacy, and planned change.

SOC 2020 Social Problems 3 s.h.

Analysis of major social issues/problems in the US and globally from a sociological perspective. Consideration of national and international implications. Focus on issues of stratification (social class, race, gender) deviance, industrial conflict, warfare, environmental pollution, and consumption. Analyses of specific social movements that respond to political and economic contradictions. Focus areas may include: media and public opinion; social inequality and justice; social control and deviance; and belief, religion, and science. May include an academic service-learning component.

SOC 2100 Law, Society, and Politics (LAW*/PSC) 3 s.h.

SOC 2140 Conflict Resolution (EDU/SW) 1 s.h.

Introduces students to 21st century non-violent conflict resolution skills and knowledge. The class addresses non-violence, attitudes towards conflict, conflict styles, macro and micro levels of conflict processes, diversity, and methods of conflict resolution. The focus is interpersonal conflict resolution in the home and work.

SOC 2160 Empathy Listening Skills (SW*) 1 s.h.

SOC 3120 Diversity, Discrimination, and Social Justice 3 s.h.

Issues of diversity, discrimination, and social justice with particular attention given to institutions that provide human services (sociology, criminal justice, nursing, gerontology, social work, psychology, education): how marginalized populations (e.g. race/ethnicity, religion, age, gender, sexual orientation, social class, medical/mental disability) are socially constructed; how these groups have been affected in the

contexts of social stratification; institutional and structural discrimination; how economic, political, and cultural systems pose challenges to these marginalized groups; exploration of possible solutions.

SOC 3130 Sociology of the Family 3 s.h.

Analysis of the family as a major social institution, with consideration of the way forms of the family vary cross-culturally. Examination of how political and economic developments affect the family. Topics include: ethnic and social class variations in structure, patterns of mate selection, parenthood, parent-child interactions, divorce, and changing gender roles.

SOC 3210 Principles of Criminology (CJ*/FOR) 3 s.h.

SOC 3230 Juvenile Justice (CJ*) 3 s.h.

SOC 3410 Sustainability: Vision and Values (HUM*/RST) 3 s.h.

SOC 3530 Marriage and the Family (FCS/RST*) 4 s.h.

SOC 3620 Society and Health: Sociological Perspectives 3 s.h.

Individual and group responses to the meaning of the sick role and well-being, provider-patient relationships, structure of health care organizations, and issues of inequality within health care institutions. Topics include the effects of age, race, gender and socioeconomic status on health and wellness; the interrelationships between healers, patients, and social institutions. Topics are examined through the sociological perspectives of conflict theory, functionalism, and symbolic interactionism.

SOC 3710 Special Topics in Sociology 1-3 s.h. (max. 3 s.h.)

Analyses of current issues and topics from a sociological perspective. *Normally offered in a weekend format.*

SOC 3950 Social Theory 3 s.h.

An examination of classical contemporary sociological theory as related to understanding social changes and research methodology. Focus on how theory provides the basis for interpreting the human condition, addressing social problems, and conducting empirical research regarding human behavior. Students examine and evaluate strategies for the improvement of society. Prerequisite: SOC 2020.

SOC 3970 Research Methods in the Social Sciences (PSC) 3 s.h.

Prepares students to become educated consumers of evidence-based social science research. Provides an understanding of how sociologists, political scientists, and other social scientists in related disciplines use quantitative and qualitative research to analyze, interpret, and make sense of the social world. Emphasizes importance of understanding ethical considerations when conducting research with human subjects. Prerequisite: SOC 2020 or PSC 1510.

SOC 4040 Proposal Writing and Grant Administration (AGE*/EM/SW) 3 s.h.

SOC 4300 Humane Studies (HUM*) 3 s.h.

SOC 4890 Seminar in Community Leadership 3 s.h.

Obtain skills needed for active civic engagement with the goal of positive community transformation. Analysis of civic

engagement and community involvement application in the role of community advocacy and planned change.

Prerequisites: SOC 1300 and SOC 3120.

SOC 4900 Applied Social Research Methods 2 s.h.

Application of qualitative and quantitative research methods in sociology and related social science disciplines utilizing the scientific method. Students have an opportunity to participate in the completion of a community-based research project and gain the practical experience needed in applied sociology. Major areas of sociological concern include the nature, scope, and logic of social changes. The course includes an exploration of specific strategies to improve society. Prerequisite: SOC 3970.

SOC 4930 Sociology Internship 2 s.h.

Professionally supervised practical experience (75 hours) in an approved setting, focusing on behavior of the individual, small groups, and community. Extends the student's sociological knowledge and skill base and provides an opportunity for students to synthesize theory with practice while gaining practical work experience. To be taken in the final academic year of the program.

SOC 4950 Sociology Seminar 2 s.h.

Theoretical and philosophical foundations of social sciences, including a paper reflecting research skills and ability to synthesize discipline-specific content. Prerequisite: Senior standing in the major.

Spanish (SPA)

SPA 1030, 1040 Elementary Spanish I, II 3, 3 s.h.

Basic skills for mastery of the Spanish language: listening, speaking, reading, and writing, with a focus on grammatical structures, and syntax. To be taken in sequence. Prerequisite for SPA 1040: SPA 1030.

SPA 1110 Spanish for Criminal Justice 3 s.h.

A combination of language and cross-cultural training to prepare students to communicate effectively with Hispanic populations in the U.S. Students develop a beginning level of fluency in Spanish and explore cross-cultural and socio-economic factors that influence the behavior of Hispanic communities across the United States. *No credit toward a major or minor in Spanish.*

SPA 2230, 2240 Intermediate Spanish I, II 3 s.h.

Development of the ability to communicate in Spanish with a focus on vocabulary building, grammar, reading, writing, and conversation. To be taken in sequence. Prerequisite for SPA 2230: SPA 1040. Prerequisite for SPA 2240: SPA 2230.

SPA 2710 Project: Written/Oral Spanish 3 s.h.

Spanish project allowing a student to strengthen written and oral skills for language proficiency. The project is designed to individual needs. In Spanish. Prerequisite or corequisite. SPA 2240.

SPA 3010 Business Spanish 3 s.h.

Prepares students with an intermediate level of Spanish to use Spanish in professional situations. Special attention to technical and commercial practices that require an advanced command of Spanish (e.g., business communications, public presentations, and cultural etiquette). Opportunity for shadowing in a Spanish-speaking business. In Spanish. Prerequisite: SPA 2240.

SPA 3250 Cultures of Spain and Spanish America 3 s.h.

Study of the cultures of the people of Spain, Latin America, and the Spanish-speaking Caribbean. Emphasis on their diversity, artistic manifestations, immigration, politics, and their shared cultural history. In Spanish. Prerequisite: SPA 2240.

SPA 3260 Cultures of Latinos in the U.S. 3 s.h.

Study of the cultures of Latinos living in the United States. Emphasis on their diversity, artistic manifestations, immigration, and politics. In Spanish. Prerequisite: SPA 2240.

SPA 3320 Oral and Written Composition 3 s.h.

Applied advanced grammar, giving practice in original composition with emphasis on developing skill in employing natural, everyday expressions in speaking and writing through the use of correct idiomatic Spanish. In Spanish. Prerequisite: SPA 2240.

SPA 3620 Special Topics 1-3 s.h. (max. 6 s.h.)

A specialized course dealing with a particular aspect of Spanish not usually included in other Spanish course offerings. Topics vary; may be repeated for credit with a new topic. In Spanish. Prerequisite: SPA 2240.

SPA 4100 Survey of Literature in Spanish 4 s.h.

A survey course of Peninsular and Latin American literature readings in Spanish: selected literary masterpieces from the Middle Ages to the present. Emphasis on the continued development of linguistic skills. In Spanish. Prerequisite: SPA 3320.

SPA 4300 Spanish Linguistics 3 s.h.

Study of aspects of the Spanish language: the structure of sounds, meanings of words, how words and sentences are organized, and how it is used in society. In Spanish. Prerequisite: SPA 3320.

SPA 4400 Spanish in the U.S. 3 s.h.

The sociolinguistics of the Spanish spoken in the United States. Study of formal linguistic structures and everyday social lives of Spanish speakers living in the United States. In Spanish. Prerequisite: SPA 3320.

SPA 4620 Independent Research 2 s.h.

Undergraduate research under faculty supervision. The student initiates and pursues a research project of an aspect of the Spanish language within the context of education and prepares a proposal to submit for presentation at the Michigan World Languages Association (MIWLA) annual conference or at another professional organization. Prerequisite: SPA 4300 and approval of the Spanish advisor.

SPA 4802 Study Abroad: Topics in the Community 2 s.h.

Focus on a selected topic from contemporary issues and constructs facing the people of Spain and Spanish America, such as family system, gender construct, indigenous resistance, immigration, religion, social class, and education, and on how these issues are influenced by cultural, political, historical, and economic contexts. Students participate in a short-term study abroad experience where they will have the opportunity to interact with Spanish speakers. In Spanish. Prerequisites: SPA 3320 and approval of Spanish advisor.

Speech Communication

See listings under Communication Studies (COM).

Sport Management (SM)**SM 1100 Introduction to Sport Management (BUS) 3 s.h.**

Exploration and analysis of sport and recreation from philosophical, historical, and organizational perspectives. Introduction to the field of sport management, examining professional opportunities available, resume writing, and professional networking in the field.

SM 1210 Introduction to the Gaming Industry 3 s.h.

Games sit at the intersection of technology, art, and culture, so success within the game industry requires the students to understand all three. This course explores why we love games, what role they play in society, and the industry that produces them. Students will also learn the basics of game development.

SM 1220 Career Exploration and Development in the Sport Industry 3 s.h.

Examination of various career paths in the sport industry and development of professional skills in order to be a competitive candidate for a career in sport. This course involves research into various career paths in the industry, an examination of interview techniques, networking with current industry professionals, and learning how to effectively navigate the sport industry. Prerequisite: SM 1100.

SM 1300 Introduction to Esports Management 3 s.h.

This course will introduce the students to the history of competitive gaming and will explore its environment. The students will learn to navigate Esports leagues, teams, players, publishers, tournament operators, media and affiliate organizations. The students will get firsthand experience of analyzing space. Prerequisite: SM 1210

SM 2100 Media Relations in Sport (JRN) 3 s.h.

The practical application of various techniques and strategies used in developing good public relations in and through sport. Communications and public relations theories and methods are presented and common public relations issues are analyzed in the professional, intercollegiate, and commercial sport industries.

SM 2300 Social Issues in Sport Management 3 s.h.

Analysis of critical issues and controversies in sport including the influences that social attitudes, media, politics, and the economy have on various sports institutions from childhood play to professional athletes. Includes perspectives on religion, deviance, violence, race, gender, and social class in sport.

SM 2710 Coaching Principles (PED*) 3 s.h.**SM 2930 Sport Management Internship I 1-3 s.h.**

Hands-on work experience in the sport or leisure industry. Application of practical knowledge of introductory sport management principles in an approved, supervised sport- or recreation-specific assignment. Prerequisite: SM 1100 and 24 semester hours in major completed.

SM 3100 Facility Design and Event Management 3 s.h.

The process for managing sport and event enterprises. Specific attention given to the design and management of a

sport facility as well as the skills and processes associated with administration of a sport event, whether it be participant-centered or spectator-centered. Prerequisite: SM 1100.

SM 3210 Convention, Event and Tradeshow Planning 3 s.h.

This course will prepare students how to turn a gaming convention into a big win. By the end of this course, the students will understand how to handle planning, marketing and logistics for a corporate presence at a major convention. Prerequisite: SM 1210.

SM 3300 Sport-Marketing (MKT) 3 s.h.

An in-depth analysis of the various techniques and strategies of marketing in the sport environment. Basic marketing concepts examined, with applications to the uniqueness of sport and leisure industry: event marketing, sponsorship, licensing, sport information, and public relations. Prerequisite: SM 1100.

SM 4100 Legal and Ethical Aspects of Sport 3 s.h.

An analysis of the legal and ethical aspects of the sport environment. Topics include negligence: Liability; control of amateur, professional, and school sport; violence/crowd control; product liability; risk management; and selected current issues. Prerequisites: SM 1100 and BL 3330.

SM 4210 Game Publishing and Distribution 3 s.h.

The role of a publisher in the game industry is to ensure that a game can get in front of its audience successfully. To do that, a publisher must consider a variety of distribution strategies and channels. This course will teach the students how publishers promote games and bring them to the market. By the end of this class, the students will be able to plan a game's launch and promotion. Prerequisite: SM 1210.

SM 4300 Budgeting and Financing of Sport (FIN) 3 s.h.

An analysis of financial concepts and theories and their application in the professional, intercollegiate, recreational, and commercial sport environments. Topics include revenues and expenses of professional, intercollegiate, and private sport industries; issues impacting these revenues and expenses; budgeting methods; economic impact; fundraising at the intercollegiate level; ownership in sport; and public and private funding for non-profit sport programs. Prerequisites: SM 1100 and ACC 2000.

SM 4500 Sport and Human Relations 3 s.h.

Socially constructed categories of class, race, and gender, and their influence on perceptions of the body. The impact these categories have on institutionalization, practice, and representation of sport and leisure is discussed, with an emphasis on promoting unbiased and non-prejudicial sport and leisure environments. Prerequisites: SM 1100 and SM 2300.

SM 4550 Sport Ticket Sales and Systems 3 s.h.

Introduces students to ticket operations by studying customer service, problem-solving, ticket technology, will-call, seat improvements and relocations, ticket transfers, and the processes of ticket and group sales. Prerequisites: SM 1100, SM 2100, SM 2300

SM 4930 Sport Management Internship II 3 s.h.

On-the-job experiences with the application of principles and techniques that have been presented in coursework in the sport management program. 240 clock hours, including periodic consultation with a university supervisor. Prerequisite: at least 12 credits in Sport Management.

SM 4950 Senior Seminar in Sport Management 2 s.h.

This capstone seminar focuses on preparing students for careers in sport management. Students synthesize their program coursework and field experiences, conduct self-assessments, and reflect critically on the field of sport management and their career potential within it.

Study Abroad

X802 Study Abroad 1-4 s.h. (max. 14 s.h.)

Study topics designed as the focus of international experiences shorter than three weeks. *May be repeated for credit. Course numbers may be used with any course rubric.*

X803 Study Abroad 1-4 s.h. (max. 14 s.h.)

Study topics designed as the focus of international experiences of more than three weeks, including but not limited to the offering of Madonna University courses at an international location. *May be repeated for credit. Course numbers may be used with any course rubric.*

Supply Chain Management (SCM)

SCM 2650 Operations and Supply Chain Management 3 s.h.

Fundamentals of operations and supply chain management. Introduces students to the major concepts, tools, and processes of operations and supply chain management and their impact on financial performance. Students learn how to create value in organizations through efficient local and global operations and supply chain management. Prerequisite: MGT 2360 and MTH 2350.

SCM 3500 Building Integrated Supply Chains 3 s.h.

Integrated approach to management of activities involved in supply chain, operations, and customer relationships. Students will learn how to successfully create ties and linkages in three key function areas: project management, problem solving, and decision making. Prerequisite: SCM 2650.

SCM 4100 Contemporary Logistics 3 s.h.

Covers logistics fundamentals and the challenges and opportunities for logistic managers in today's dynamic global landscape. Emphasis is on supply chain analytics, logistics, strategic and financial decision making. Achievement of operational and logistics efficiency and making managerial decisions in complex situations. Prerequisites: SCM 3500.

SCM 4300 Global Supply Chain Management 3 s.h.

Current trends and emerging issues in global supply chain management. Examination of the systems and methods of building and managing global supply chains. Emphasis is on sustainable supply chain management. Prerequisites: SCM 2650.

SCM 4700 Procurement Management 3 s.h.

In depth analysis of the dangers of inefficient supply chain management and its impact on an organization's overall

health and performance. Emphasis on effective decision making specific to scope and influence of supply chain procurement, supplier relationships, and legal and sourcing management leading to enhanced business performance.

SCM 4910 Internship 3 s.h.
Supervised professional work experience in the area of specialization. Completed in the last two semesters of the program.

Television and Video Communications

See listings under Broadcast and Cinema Arts (BCA).

Theater (TRE)

TRE 1010 Fundamentals of Acting 3 s.h.
An exploration of the basics of acting through exercises that build a process from script page to stage, including approaching a script, preparation and research, and how to work collaboratively in the professional world. Scripts used include monologues and scene work. Preparation and research of scripts include investigating not only the particulars of the script itself, but how it relates historically to the periods in which it is set, in which it was written, and to the history of theater.

TRE 2010 Musical Theatre Dance Styles I 2 s.h.
Explore the varying styles of dance as used in the musical theatre genre. Short segments of various styles of dance used in the musical theater genre, such as ballet, tap, ballroom, modern, jazz, contemporary, and others will be studied.

TRE 2020 Musical Theatre Dance Styles II 2 s.h.
Explore the varying styles of dance as used in the musical theatre genre. Short segments of various styles of dance used in the musical theater genre, such as ballet, tap, ballroom, modern, jazz, contemporary, and others.

TRE 3010 Production Technology 2 s.h.
A project based course involving in-depth study of the practical aspects of theater production. Students engage in the study of theoretical and practical perspectives of applied theater including technical production, stage management, and design that provide the framework for future productions.

University (UNV)

UNV 1020 Transition to Higher Education 2 s.h.
Interactive course designed to address transition issues first-year students might face when entering the University: introduce them to thought-provoking, challenging, and interesting ideas to enhance their critical thinking, research, writing, and presentation skills; engage them in a community of learners; and facilitate reflection on a service-learning-experience that fulfills the University's mission of service. The culminating assignment is a structured debate, which students prepare for throughout the course. Includes an academic service-learning experience. *Required of all students under age of 24 transferring in fewer than 13 s.h. of college credit (excluding Advanced Placement, dual enrollment, International Baccalaureate, and early college credit).* *Students who complete a semester of Intensive English as a Second Language are excused from this requirement.*

World Languages (WL)

WL 2100 Communication and Culture for Health Care Professionals 3 s.h.
Culturally based concepts of health and illness among diverse populations are studied to facilitate understanding of differences in global human health conditions for the purpose of providing culturally competent health care. Basic foreign language for health care is included.

WL 2710 Language Acquisition 2 s.h.
A survey course on the fundamentals of second language acquisition. Issues pertaining to syntax, semantics, and phonology; contrasts of first- and second-language acquisition as well as social and infrastructural factors that affect the learning process (monolingual vs bilingual societies, monoglossia vs diglossia, cultural capital).

WL 4900 Language Immersion Service-Learning 2 s.h.
Immersion experience (minimum 30 clock hours) in a community-based organization where use of the target language and cultural knowledge is required. Development of oral and written language skills in actual use. Reflective exploration of community service and civic responsibility in lifetime perspective. Prerequisite: higher-intermediate proficiency in the target language and permission of the department.

World Language Study

Madonna University offers majors and minors in American Sign Language and Spanish (see under listings). Students who wish to study a language not being taught at Madonna University should see their major advisor to arrange Consortium registration at the University of Detroit Mercy or see the Center for Study Abroad to discuss opportunities for international study.

Writing (WRT)

WRT 1000 Writing Workshop 3 s.h.
Individualized instruction for students developing college level writing skills. Working with tutors in the Writing Center for a prescribed number of hours per week is a requirement for this course. This course does not satisfy Core Curriculum requirements and does not apply toward any major.

WRT 1010 College Composition I 3 s.h.
Study and practice of strategies for academic writing, with a focus on writing and reading descriptive, narrative, and expository essays. Emphasis on writing as a process. Introduction to information literacy.

WRT 1020 College Composition II 3 s.h.
Study and practice of strategies for academic writing, with a focus on writing and reading persuasive and argumentative essays. Continued emphasis on writing as a process. Development of information literacy skills, as applied to writing a substantial research paper. An exit portfolio, to be scored by at least two Composition instructors, is required for successful completion of the course. Prerequisite: WRT 1010.

(Does not apply to any major or minor in the Broadcast and Cinema Arts, Communication, and Writing department.)

WRT 1320 News Reporting (JRN*) 3 s.h.

WRT 2050 Creative Writing 3 s.h.

Writing and study of poetry, fiction, and plays at an introductory level. Includes discussion, writers' workshops, and regular conferences with the instructor. Students contribute to the production of a class electronic publication. Prerequisite: WRT 1020.

WRT 2440 Technical Writing 3 s.h.

Theory and application of technical writing principles. Topics include an introduction to the technical communication environment, ethical and legal considerations, the basics of writing and analyzing technical documents, collaborative writing, and design principles for documents and Web sites. Students create a variety of technical documents for inclusion in their final e-portfolios. Prerequisite: WRT 1020 or equivalent.

WRT 3100 Advanced Composition 3 s.h.

Advanced study and application of the rhetorical elements of invention, form, and style in nonfiction writing. Emphasis on strategy and style in appealing to a variety of audiences. Class meetings include writers' workshop format. Prerequisite: WRT 1020.

WRT 3250 Writing Creative Nonfiction 4 s.h.

Exploration of the craft of creative nonfiction, concentrating on rhetorical features and borrowings from other literacy genres. Writing memoir, poetic essays, literary journalism, essays of place, or literary approaches to narrative in scientific writing. Students share work in progress and render feedback on the work in the progress of others. Prerequisite: WRT 2050

WRT 3260 Business and Professional Writing (BUS) 3 s.h.

A study of the strategies and stylistic devices which lead to clear, concise, and complete business writing. Various types of business letters, memoranda, proposals, and reports are examined and developed. Prerequisite: WRT 1020.

WRT 3440 Advanced Technical Writing 3 s.h.

Continued study and application of technical writing principles. Topics include communicating persuasively, designing documents and Web sites, using graphics, evaluating and testing documents and Web sites, and learning key applications for creating a variety of technical documents. Introduction to technical communication software. Students create a variety of technical documents for inclusion in their final e-portfolios. Prerequisite: WRT 2440 or equivalent.

WRT 3490 Publication Software for Technical Writers 3 s.h.

In-depth learning in the use of technical communication software with multi-channel, multi-device publishing capabilities: developing standard-compliant content, publishing this content in various formats, working collaboratively on writing projects, incorporating images, and adding demos and simulations. Students create a variety of technical documents, using principles and strategies learned

in the technical writing course sequence, for inclusion in their final e-portfolios. Prerequisite: WRT 3440.

WRT 4000 Rhetorical Theory and Criticism (COM) 4 s.h.

Survey of Western rhetorical theory from Classical times to the present; analysis and criticism of major theoretical and philosophical concepts concerning persuasion in speaking and writing. The influence of rhetoric on political, social, and individual thought and action.

WRT 4750 Topics in Writing 1-4 s.h. (max. 8 s.h.)

Advanced writing experience focusing on a single genre. Includes writing experience, the study of professional texts, participation in small-group writing workshops, and individual conferences with instructor. May be repeated in new topic for credit. Prerequisite: WRT 2050 or departmental approval.

WRT 4910 Cooperative Education in Writing 3 s.h.

On-campus or on-the-job experience (paid) with professional writing assignments. Includes bi-monthly discussion of co-op experiences with peers and regularly scheduled consultations with the instructor. Prerequisite: WRT 3440.

WRT 4930 Writing Practicum 3 s.h.

On-campus or on-the-job experience (unpaid) with professional writing assignments. Includes bi-monthly discussion of co-op experiences with peers and regularly scheduled consultations with the instructor. Prerequisite: WRT 3440.

WRT 4950 Senior Seminar: Writing for Publication 3 s.h.

Advanced course in freelance and literary writing for authors working on all types of manuscripts: fiction, nonfiction, and poetry. A guided but individualized study of the student's chosen literary form. Includes advanced study of effective writing techniques, marketing information, and strategies for publication. *Must be taken in final twenty hours of the degree program.*

Section IV:

Directories

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Maps

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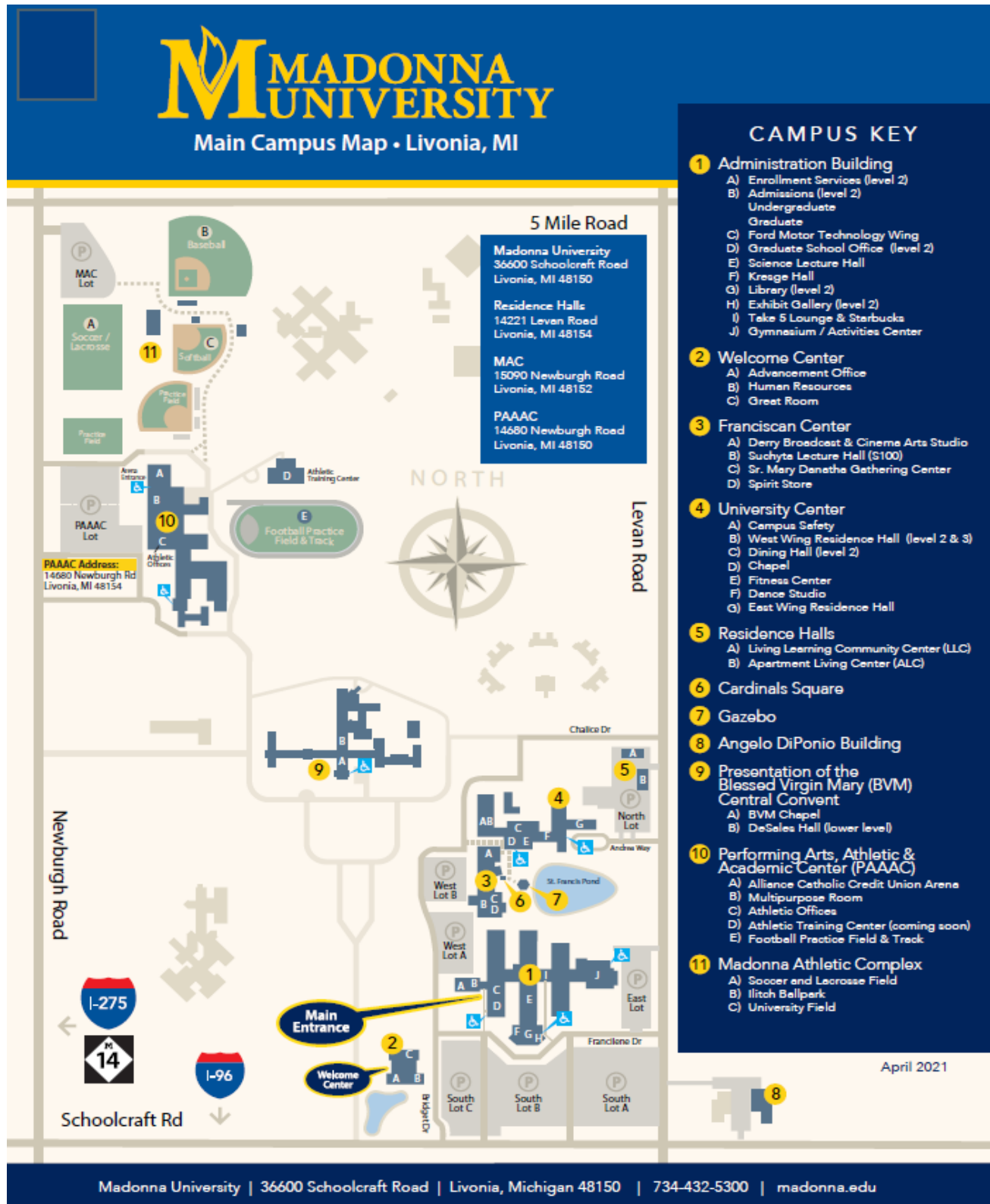
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Campus Maps

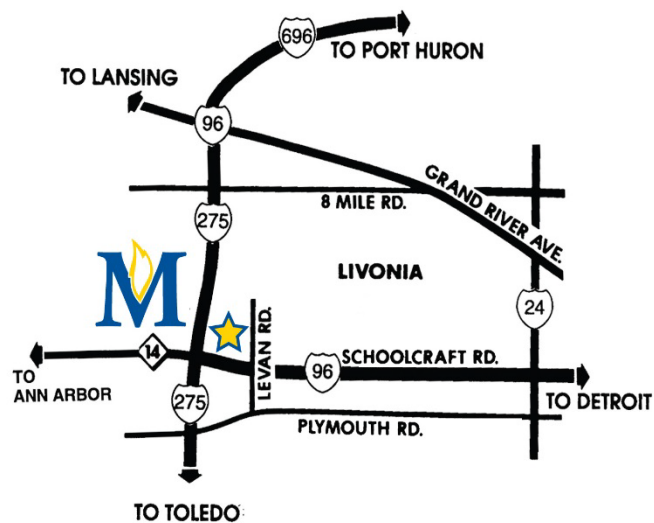


Driving Map

LIVONIA CAMPUS

Madonna University is located
east of the I-96 and I-275
intersection

36600 Schoolcraft Road
Livonia, Michigan 48150
(734) 432-5300



Telephone Directory

All phone numbers are preceded by area code 734, unless otherwise noted

Deans and Program Directors

GR = Graduate

UG = Undergraduate

College of Arts and Sciences **432-5543**

Dr. Ian Bell, Dean 432-5307
 Dr. Susan Toma, Associate Dean 432-5525
 Forensic Science (UG), Ms. Jessica Zarate 432-5523
 Forensic Science (GR),
 Dr. Stephanie Gladych-Julien 432-5521
 Humane Leadership, Dr. Andrew Domzalski 432-5420
 Nutrition Studies (GR), Dr. Karen Schmitz 432-5534
 Pastoral Ministry, Dr. Jane Linahan 432-5657
 TESOL, Dr. Andrew Domzalski 432-5420

College of Education & Human Development **432-5655**

Dr. Elena Qureshi, Interim Dean 432-5785
 Dr. Kenneth Thiel, Associate Dean 432-5776
 Ed.S., Ed.D., Dr. Anne-Marie Sladewski 432-5651
 Catholic School Leadership,
 Ms. Leisa Carzon 432-5483
 Clinical Psychology,
 Dr. Annamaria Silveri 432-5735
 Criminal Justice Graduate Studies,
 Mr. Victor Lauria 432-5438
 Early Childhood Education and Literacy
 Education, TBD 432-5536
 Educational Leadership,
 Dr. Anne-Marie Sladewski 432-5651
 Higher Education Administration,
 Mr. Cliff Camp 432-5736
 Social Work (MSW) Director, Dr. Irena Glover 432-5569

College of Nursing and Health **432-5717**

Dr. Roxanne Roth, Dean 432-5874
 Graduate Nursing Programs, Chair,
 Dr. Roxanne Roth 793-2464
 Nurse Practitioner, Dr. Jennifer Reynolds 432-5484
 Dr. Claude Lauderbach 432-5482
 Nursing Practice (DNP)
 Dr. Claude Lauderbach 432-5482
 Allied Health, Dr. Denise Brothers 432-5531
 Nursing Simulation Laboratory, Academic
 Building 432-5596

School of Business **432-5354**

Ms. Jessica Cummings, Dean 432-5369
 Graduate Studies, Dr. Andrew Malec 432-5378
 Undergraduate Studies, Mr. Frank Notturmo 432-5358

Central Switchboard

432-5300

Graduate Program

432-5667

Dr. Elena Qureshi, Assistant Vice President
 for Academic Affairs

432-5457

Service Offices

Admissions to Graduate Program 432-5352
 Alumni Office 432-5811
 Campus Ministry 432-5839
 Career Development 432-5623
 Center for Research 432-5666
 Center for Study Abroad 432-5669
 Director of English as a Second Language 432-5560
 Counseling and Disability Resources 432-5639
 Enrollment Center (registration and records) 432-5400
 Financial Aid, Student Financial Services 432-5663
 International Students Office 432-5791
 IT Help Desk (helpdesk@madonna.edu) 432-5800
 Library 432-5703
 Residence Life 432-5755
 Spirit Store 432-5613
 Student Accounts – Billing and Payments,
 Student Financial Services 432-5600
 Student Affairs, Office of the Vice-President 432-5881
 Technology Learning Center 432-5376
 Transcultural Nursing Society 432-5470
 Writing Center 432-5304

Fax Machines

Advancement (248) 479-1955
 Enrollment Center (248) 479-0585
 Human Resources (248) 479-0944
 Receiving (734) 432-5393