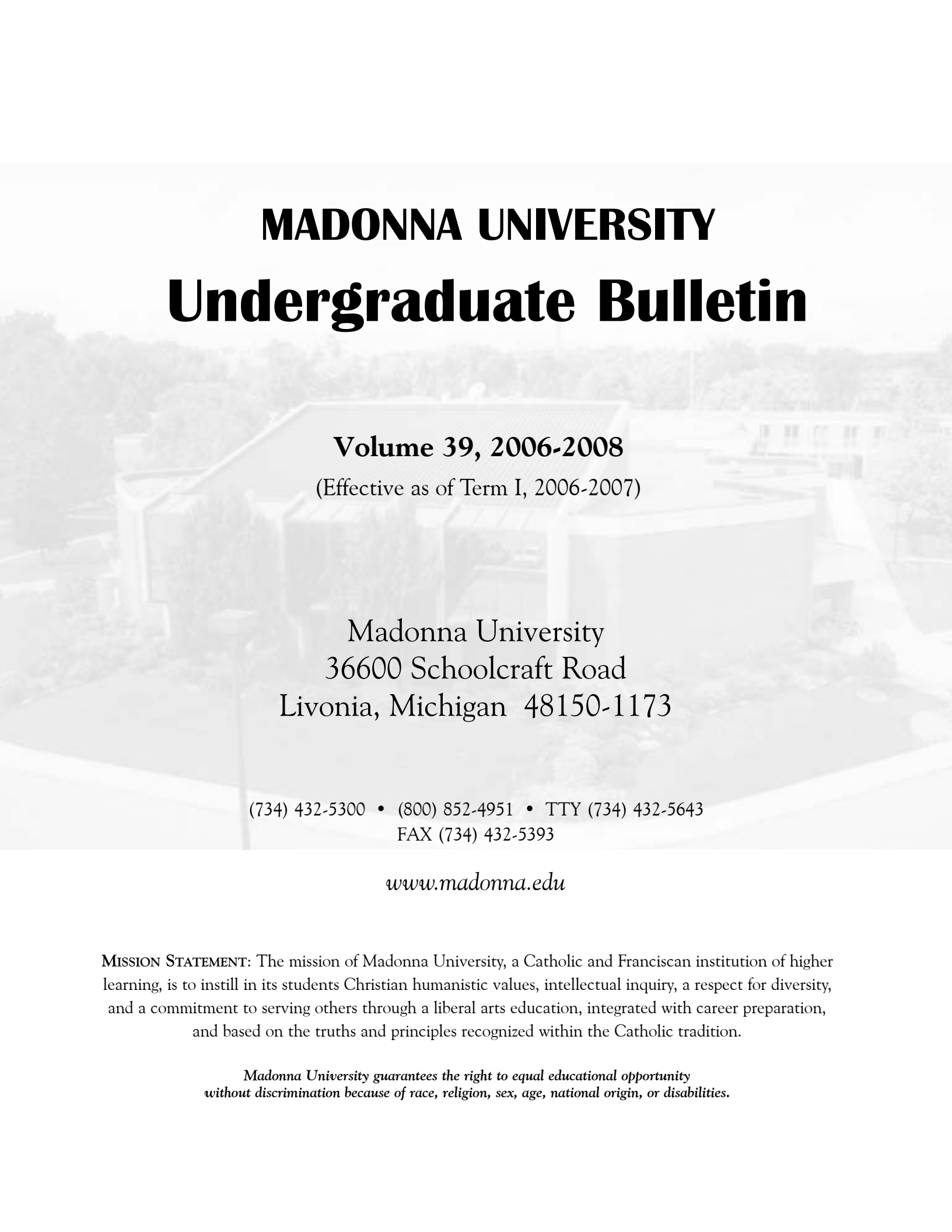




MADONNA UNIVERSITY

Undergraduate Bulletin

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MISSION STATEMENT: The mission of Madonna University, a Catholic and Franciscan 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 the Catholic tradition.

*Madonna University guarantees the right to equal educational opportunity
without discrimination because of race, religion, sex, age, national origin, or disabilities.*



We Invite You to Join Our Learning Community...

Regardless of what brought you to Madonna University for the first time, we are pleased that you are considering one or more of our many academic programs to prepare you for an enriching career, for graduate studies, or for the sheer joy of learning. In registering for classes here, you join over 4,500 students who are pursuing their studies in a Catholic Christian atmosphere, which also promotes respect for the dignity of all people, concern for the earth and environment, and peace among people of all countries and in our own blessed country, according to the Franciscan tradition.

As you proceed to graduation, you will join over 20,000 graduates who have completed degree and certificate programs and who have joined the ranks of productive citizens who work primarily in southeast Michigan in business, education, cultural, social service, technical, health, and legal fields. During the in-between years, we encourage you to take full advantage of the resources, faculty, library, computer, tutoring/mentoring, and other services available to our students.

Campus clubs, service learning, athletic opportunities, internship, lectures, book and film discussions, retreats, and other opportunities continue to expand. You are invited to participate in these activities to enhance your educational experiences. We have also expanded our geographical outreach with two new centers in Orchard Lake and in Southgate (Downriver) for your convenience.

Madonna University is on the move, planning for the future -- for your future and for the future of younger students still preparing to engage in the wonderful enterprise of higher education. We trust that this Bulletin will assist you in engaging more fully in your college education. We are committed to promoting your "intellectual, spiritual, and personal growth."

Sincerely,

Sister Rose Marie Kujawa, CSSF

Sister Rose Marie Kujawa, CSSF, Ph.D.
President

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MADONNA UNIVERSITY ACADEMIC CALENDAR

TERM I — FALL

Faculty Conference
Community Gathering
Final Registration
Classes Begin
Course Add Period
Deadline Removal of "I" grade from Spring/Summer term
Filing Deadline—Application for Graduation: Winter Term, May
Web Registration Begins—Winter Term
Final Date, Election of S Grade
In Person/Open Registration Begins—Winter Term
Final Date, Withdrawal from Courses
**Thanksgiving Recess
Final Examinations
End of Fall Term
Grades Due by 12:00 noon
<i>**Thanksgiving Recess begins at 4:00 p.m. on the Wednesday before Thanksgiving.</i>

<u>2006-2007</u>	<u>2007-2008</u>	<u>2008-2009</u>
Aug. 28	Aug. 27	Aug. 25
Aug. 30	Aug. 29	Aug. 27
Sept. 1	Aug. 31	Aug. 29
Sept. 5	Sept. 4	Sept. 2
Sept. 5-11	Sept. 4-10	Sept. 2-8
Sept. 8	Sept. 7	Sept. 5
Sept. 29	Sept. 28	Sept. 26
Oct. 23	Oct. 22	Oct. 20
Oct. 27	Oct. 26	Oct. 31
Nov. 13	Nov. 19	Nov. 10
Nov. 17	Nov. 16	Nov. 14
Nov. 23-26	Nov. 22-25	Nov. 27-30
Dec. 11-16	Dec. 10-15	Dec. 8-13
Dec. 16	Dec. 15	Dec. 13
Dec. 19	Dec. 18	Dec. 16

TERM II — WINTER

Faculty Conference
Final Registration
Classes Begin
Course Add Period
Deadline: Removal of "I" grade from Fall term
Filing Deadline—Application for Graduation Spring/Summer Term, July
Web Registration Begins—Spring/Summer Term
Final Date, Election S Grade
Spring Vacation
Final Date, Withdrawal from Courses
In Person/Open Registration Begins—Spring/Summer Term
*Easter Recess
Web Registration Begins—Fall Term
Final Examinations
End of Winter Term
Grades Due by 12:00 noon
Graduation Liturgy
Commencement
<i>*Easter Recess begins at 4:00 p.m. on the Thursday before Easter.</i>

<u>2006-2007</u>	<u>2007-2008</u>	<u>2008-2009</u>
Jan. 12	Jan. 11	Jan. 9
Jan. 5	Jan. 4	Jan. 2
Jan. 8	Jan. 7	Jan. 5
Jan. 8-13	Jan. 7-12	Jan. 5-10
Jan. 26	Jan. 25	Jan. 23
Feb. 2	Feb. 1	Jan. 30
Feb. 26	Feb. 25	Feb. 23
Mar. 2	Feb. 29	Feb. 27
Mar. 5-10	Mar. 3-8	Mar. 2-7
Mar. 23	Mar. 21	Mar. 20
Mar. 26	Mar. 31	Mar. 30
Apr. 6-8	Mar. 21-23	Apr. 10-12
Apr. 9-Aug. 3	Apr. 7-Aug. 1	Apr. 6-July 31
Apr. 23-28	Apr. 21-26	Apr. 20-25
Apr. 28	Apr. 26	Apr. 25
May 1	Apr. 29	Apr. 28
May 3	May 1	Apr. 30
May 5	May 3	May 2

TERM III — SPRING-SUMMER

Final Registration
Classes Begin
Course Add Period
In Person/Open Registration Begins—Fall Term
Memorial Day—No Classes
Filing Deadline—Application for Graduation Fall Term, December
Deadline: Removal of "I" grade from Winter term
Final Date, Withdrawal from courses
Independence Day—No Classes
Final Examinations
End of Spring/Summer Term
Grades Due by 12:00 noon

<u>2006-2007</u>	<u>2007-2008</u>	<u>2008-2009</u>
May 4	May 2	May 1
May 7	May 5	May 4
See Tuition and Fees Section		
May 14	May 26	May 26
May 28	May 26	May 25
June 2	May 30	May 29
June 8	June 6	June 5
No later than 2/3 of Complete Course Work		
July 4	July 4	July 4 (Sat)
Last Class Session		
July 28	July 26	July 25
July 31	July 29	July 28



Section I:

University

Overview

Madonna University

Vision for the New Century

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 men and women 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 committed to meeting the educational needs of traditional and nontraditional students as they pursue associate, baccalaureate, and master's degrees and lifelong learning. The University's strong foundation of liberal arts education combined with career preparation is acknowledged for its relatedness to the quality of life and economic growth and development of southeastern Michigan. 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 distance education instruction.

Mission

Madonna University expresses its mission in the following statement:

Mission Statement

The mission of Madonna University, a Catholic and Franciscan 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 the Catholic tradition.

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 authority of the Catholic Church through its academic curriculum and student life activities;
- promotes an appreciation for and openness to other religious traditions;
- 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, interreligious dialogue, and intellectual freedom.

Through undergraduate, graduate, and continuing professional study, Madonna University provides men and women with opportu-

nities 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 reverence for the dignity of each person;
- a love of God translated into assisting all people, especially the poor, minority groups, and individuals challenged with disabilities;
- an appreciation of nature and all creation; and
- 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 men and women 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.

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:

- **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.
- **Respect**
Madonna University recognizes that each individual's contribution is vital to achieving society's goals and, therefore, values each person's special 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.

- **Community**

Madonna University fosters a spirit of belonging, interdependence, and solidarity based on principles of mutual trust, respect for each individual, and social justice. The University strives to be an agent of transformation that, through the power of liberal arts education integrated with career preparation, educates men and women to create positive change in the lives of individuals and the global community.

- **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.

- **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.

- **Integrity**

The University practices honesty in all matters, including how it presents itself to its various publics and 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.

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 the 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. **Communication:** Develop effective communication skills.
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 and social environment.
6. **World Citizenship:** Develop a facility for international and national citizenship skills.
7. **Personal and Professional Development:** Achieve individual educational goals for personal enrichment and/or career development.
8. **Significant Content Knowledge:** Master a significant body of content knowledge.

Madonna University Alumni

Upon graduation, the designation of alumna(us) is granted each graduate. Alumni are challenged to imbue their life work with the values of service to others that were a part of their academic work.

The Alumni Office is part of the **University Advancement** Department. In meeting the demands of its educational trust, Madonna University conducts ongoing development and public relations programs which seek to engage alumni in a broad variety of social activities and encourage financial support for encourage financial support for University scholarships, professorships, capital improvements, and operations. Visit www.alumni.madonna.edu for details.

Financial assistance in the form of gifts and grants from alumni, parents, friends, corporations, and foundations enables the University to keep tuition at a reasonable level and, at the same time, to implement innovative programs and improve facilities. Gifts may be made in a number of ways: cash, stocks and bonds, bequests, annuities, trust funds, property, life insurance, and others. Gifts are tax deductible and also qualify for a Michigan tax credit. All gifts are handled through the University Advancement Department.

The University

Madonna University History

Madonna University is proud of its long-standing commitment to quality liberal arts education and 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 programs in 1982, and achieved University status in 1991. In 2003, Madonna University absorbed the students and selected programs of St. Mary's College of Orchard Lake.

Celebrating nearly 70 years of academic excellence, Madonna University maintains its tradition as an independent Catholic Franciscan University. 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.**

The Livonia Campus

The wooded forty-nine acre 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), with easy access to downtown Detroit, the Detroit Metropolitan Airport, Ann Arbor, and important state highways.

The **Academic Building** accommodates a variety of purposes, from administrative offices and the University Bookstore to classrooms and laboratories. The University remains committed to advanced technology in its delivery of instruction, increasing opportunities for learning on an "anywhere, anytime" basis. In addition to face-to-face classroom instruction, course offerings use a blend of technologies to reach students at off-campus sites, at work, or at home using Blackboard for online courses, e-mail, telecourses, audio tapes, video tapes, and interactive (two-way) television. As a result of a major classroom upgrade project, Madonna has a newly constructed Ford Motor Company Technology Wing and interactive video classroom with recording facilities, two-way live interactive television, and satellite video conferencing capabilities.

The **Angelo DiPonio Building**, which was acquired by Madonna University through a \$1.2 million donation from the Angelo and Margaret DiPonio Foundation, houses the College of Nursing and Health. It contains the Ray A. and Jean S. Shapero Nursing Demonstration Center and the Helene Fuld Computer Assisted Instruction Center, faculty offices, and classrooms.



The **Maertens Building** was acquired through the donation of \$1 million by John and Elizabeth A. (DeSeranno) Stevens and Aline DeSeranno in memory of Aline's father. The 12,000-square-foot building houses the University's School of Business, the Outreach Office, faculty offices and classrooms.

The **Ford Motor Company Technology Wing** provides state-of-the-art learning resources in computing and multimedia and includes a traditional PC computer lab, collaborative computer lab, computer classroom, faculty multimedia authoring lab, and a Macintosh-based computing and multi-media lab that supports student writing, graphics design, video, and journalism. The Informational 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 and e-mail access provides immediate communication with faculty, support offices, other students, and the global community. The Online Learning and Advising Center provides web-based services, such as class registration, payment of accounts, academic advising, and access to student information.

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. The University uses *Blackboard* as its primary electronic learning management system and sponsors an ongoing certification program to ensure that faculty members are prepared to use the features of the system to its full potential.

The **Activities Center**, attached to the academic building, seats 1000 spectators and provides facilities for sports activities, stage productions, convocations, and lectures. The Madonna University Athletic department has grown to an eleven sport program recognized by the National Association of Intercollegiate Athletics (NAIA), and competes as a member of the Wolverine-Hoosier Athletic Conference (WHAC).

The **Career Services Office** provides assistance to students seeking work experience, part-time or full-time employment, on-campus student employment, and career counseling, testing, and advising. Co-op students gain academic credit and paid job experience directly related to their field of study. Annually, over 100 employers participate in the co-op program, giving students a head start in their careers.

Students and alumni are invited to participate in job fairs, the resume referral service, and workshops in resume writing, job search techniques, and interviewing. Individuals seeking assistance in developing their career plans may meet with a counselor and utilize DISCOVER, an interactive computer career guidance system that facilitates self assessment.

The **Center for International Studies (CIS)** was established in 1991 as a clearinghouse for all international education programs. The focus of the Center is to promote and facilitate a wide range of study, work, and travel abroad opportunities for both students and faculty, as well as to assist in the recruitment of and services for students coming from abroad. In addition, the Center offers, through selected departmental courses of the University, a Certificate of Achievement in International Studies designed so that all students, regardless of major, can add an international dimension to their credentials without adding appreciably to the number of courses required for graduation.

The **Center for Personalized Instruction (CPI)** coordinates the university-wide tutorial program. Services include basic skills assessment and assistance, one-on-one or group tutoring in specific and general subjects, supplemental instruction in designated classes, and print and video resources. The CPI houses the federally funded TRiO Program.

The **Center for Research** coordinates Human Subject reviews and provides consultation for research, data analysis, and student assessment to faculty, staff, and students.

The **Library**, built in 1984, is a focal point for the academic life of the campus. Housing more than 110,000 books and other print and non-print materials, the library provides comfortable study and reading areas, in addition to group study and conference rooms.

MAC, Madonna's online catalog, is an electronic record of all library holdings that offers the user a variety of search options. The library enhances its print resources by subscribing to an array of electronic database collections, including FirstSearch, ProQuest, InfoTrac, LEXIS-NEXIS, and WebSPIRS, which have partial full-text capabilities. Faculty librarians can assist students in finding books, abstracts, monographs, articles, research, and technical reports not held at the Madonna Library. The library participates in the Southeastern Michigan League of Libraries Infopass system and maintains reciprocal borrowing agreements with several area academic libraries. Through such consortial arrangements, students can take advantage of the extensive research and library resources in the Detroit-Ann Arbor region. Additional library resources include card-operated photocopiers, as well as microfilm and microfiche readers.

The library's ethnic heritage study alcoves contain a variety of artifacts relating to the cultural backgrounds of Madonna University's multiethnic student body. The library wing also houses the University Archives and Kresge Hall, a 300-seat auditorium for lectures and special events.

The **Technology Learning Services** department assists faculty and students in the effective use of media for teaching and learning, through classroom support and assistance from media specialists in the preparation of media for presentation or instruction. Services and facilities include a TV Studio, editing, streaming media, podcasting, satellite video conferences, cable TV, distance learning, and interactive television classroom where courses are offered through two-way video to off campus sites. Madonna Magazine, a regionally syndicated public service program, is produced and crewed by Television and Video Communications students and watched by 40,000 people throughout Detroit. Technology Learning Services has daytime, evening, and Saturday hours.

The **Office of Service-Learning (OS-L)**, located in the Maertens Building, supports and promotes academic service-learning opportunities across all fields of study through programs and services offered to students, faculty, and the wider community. Academic service-learning is an experiential teaching and learning methodology that facilitates a deeper understanding of course objectives through engagement in relevant and meaningful community service. The OS-L also coordinates the Community Leadership Certificate of Achievement, which enhances student leadership potential through selected service-learning courses in sociology, management, and Franciscan ethics.

The **University Center/Residence Hall**, renovated in 2000, houses 200 men and women in separate wings. The newly renovated building includes gathering areas on each floor, attractive suite areas, and enlarged kitchenettes. In addition to computer connections, cable TV, and telephones in each room, twenty rooms are

now equipped with emergency lighting systems for the hard of hearing. Throughout the year, the dorm lounges, the commons, and the spacious dining halls are centers for gatherings, dances, speaking events, and workshops, as well as student government and club meetings. The roof-covered patio and the upper and lower terraces afford a view of the tree-lined pond and landscape.

All of the buildings on the Livonia campus are accessible according to ADA standards. Closed captioned televisions, teletypewriter access, and telephone boosters are available to hard of hearing students.



Orchard Lake Center

Beautifully situated on the shores of Orchard Lake, Madonna University's Orchard Lake Center shares a 120-acre campus made up of historic and contemporary buildings. Located 17 miles northwest of Detroit and 7 miles west of Pontiac, the Orchard Lake Center is comprised of administrative offices in the Administration Building, classrooms and computer labs in the College Academic Center and Activities Building, and faculty offices in the Barracks. The Orchard Lake Center houses Madonna University's St. Mary's College as well as programs and majors of the University's other colleges.



Downriver Center

Madonna University works cooperatively with the Archdiocese of Detroit to maintain the presence of Catholic education at the former Aquinas High School on Northline Road in Southgate. Occupying classrooms, offices, and a computer lab on the first and second floors, the Downriver Center offers an array of academic programs and majors in the evenings and on weekends.

Assessment, Accreditation, Approvals, and Quality Standards

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 and administration, and the results 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 international, national, regional, and state levels. These organizations have varying cycles of review that can be anywhere from one to ten years.

The following is a list of approvals and accreditations:

American Bar Association, 1984, 1990, 1994, 2000

American Dietetic Association Approvals
Plan IV, 1977, 1982; Plan V, 1990, 1995
American Dietetic Association Accreditation, 2000
(Council on Accreditation for Dietetics Education, The American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995. 1-800-877-1600).

Commission on Collegiate Nursing Education, 2006
One Dupont Circle, NW Suite 530, Washington, DC 20036-1120; (202) 887-6791

Council on Social Work Education, 1982, 1988, 1995, 2003

Michigan Board of Education:
Approval of four-year degrees, 1947
Teacher certifications, 1954, 1969, 1996, 2002
Vocational certification and authorization, 1969, 1974, 1996, 2002
Master of Science in Administration, 1982, 1996
Master of Science in Nursing, 1987

Michigan Board of Nursing, 1967

North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602; 1959, 1968, 1978, 1982 (Graduate Studies), 1988, 1998, 2004 (merger with St. Mary's College)

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

National League for Nursing Accrediting Commission (NLNAC), 61 Broadway, 3rd Floor, New York, NY 10006; Phone: (800) 669-1656, ext. 153, 1970, 1978, 1984, 1993, 1999

NOTE: Accreditation materials are available for review in the Madonna University Library.

Selected Memberships

Academy of Certified Social Workers
Academy of Criminal Justice Sciences
American Alliance for Health, Physical Education, Recreation and Dance
American Assembly of Collegiate Schools of Business
American Association of Colleges of Nursing
American Association of Colleges for Teacher Education

American Association of Collegiate Registrars and Admissions Officers
Association for Counseling and Development
American Association for Higher Education
American Association for Paralegal Education
American Association for Physics Teachers
American Conference of Academic Deans
American Correctional Association
American Council on Education
American Diabetes Association
American Dietetic Association
American Educational Research Association
American Folklore Society
American Home Economics Association
American Library Association
American Personnel and Guidance Association
American Physics Society
American Society on Aging
American Society of Allied Health Professions
American Society for Industrial Security
American Sociological Association
Archdiocese of Detroit Catholic Campus Ministry
Association of American Colleges and Universities
Association of Student Affairs at Catholic Colleges and Universities.
Association for Business Communication
Association of Catholic Colleges and Universities
Association of College and University Telecommunication Administrators
Association of Colleges and Research Librarians
Association of Departments of English
Association of Franciscan Colleges and Universities
Association for Gerontology in Higher Education
Association on Handicapped Student Service Programs in Post-Secondary Education
Association for Systems Management
Association of Governing Boards of Universities and Colleges
Association of Independent Colleges and Universities of Michigan
Association of Independent Liberal Arts Colleges for Teacher Education
Association for Supervision and Curriculum Development
Association for Quality and Participation (AQP)
Campus EAI Consortium
Career Educational Association
Catholic Library Association
College Art Association
College Composition and Communication
College Placement Council
College Sports Information Directors Association
College and University Personnel Association
Comparative and International Education Society
Conference of Interpreter Trainers
Consortium of College and University Media Centers
Consortium for Computing in Small Colleges
Cooperative Education Association
Council for Adult and Experiential Learning (C.A.E.L.)
Council for Exceptional Children

Council of Independent Colleges
 Council for Liberal Learning
 Council on Social Work Education
 Council of Undergraduate Psychology Programs
 C.R.E.A.D., The Inter-American Distance Education Consortium
 Detroit Area Consortium of Catholic Colleges
 Educational Teleconsortium of Michigan
 EDUCAUSE
 Faculty Exchange Center
 Fashion Group
 Fuld Institute for Technology in Nursing Education
 Gerontological Society of America
 Greater Detroit Chamber of Commerce
 Historical Society of Michigan
 Institute of Food Technology
 Institute for International Education
 International Assembly for Collegiate Business Education
 International Association of Business Communicators
 International Association of Chiefs of Police
 International Reading Association
 International TESOL (Teachers of English to Speakers of Other Languages)
 Learning Disabilities Association
 Legal Assistants Association of Michigan
 Livonia Chamber of Commerce
 Michigan Academy of Science, Arts, and Letters
 Michigan Association of Baccalaureate Social Work Programs
 Michigan Association of Chiefs of Police
 Michigan Association of College Admissions Counselors
 Michigan Association of Colleges of Nursing
 Michigan Association of Collegiate Registrars and Admissions Officers
 Michigan Association of Colleges for Teacher Education
 Michigan Association for Health, Physical Education and Recreation
 Michigan Association of Social Workers in Health Care
 Michigan Association of Teachers of English
 Michigan Campus Compact
 Michigan Catholic Campus Ministry Association
 Michigan Catholic Guidance Council
 Michigan College English Association
 Michigan College Personnel Association
 Michigan College and University Placement Association
 Michigan Colleges Foundation
 Michigan Collegiate Telecommunication Association
 Michigan Committee for Jobs and Energy
 Michigan Computer Users for Learning
 Michigan Consortium on Substance Abuse Education
 Michigan Council on Human Service Education
 Michigan Criminal Justice Educators Association
 Michigan Developmental Education Consortium
 Michigan Dietetic Association
 Michigan Home Economics Association
 Michigan Honors Association
 Michigan Intramural Recreational Sports Association
 Michigan Library Association
 Michigan Library Consortium

Michigan Music Teachers' Association
 Michigan Registry of Interpreters for the Deaf
 Michigan Society of Gerontology
 Michigan Student Financial Aid Association
 Michigan Teachers of English to Speakers of Other Languages
 Michigan Teachers' National Association
 Michigan Women's Studies Association
 Michigan Writing Centers Association
 Mid-America Association of Education Opportunity Program Personnel
 Midwest Alliance for Nursing
 Midwest Archives Conference
 Midwest Association of Graduate Schools
 Midwest Association of Student Financial Aid Administrators
 Midwest College Art Association
 Midwest Consortium for Study Abroad (MCSA)
 Midwest Modern Language Association of America
 Modern Language Association of America
 NAFA: Association of International Educators
 National Academic Advising Association
 National Academy of Television Arts and Sciences
 National Association of College Directors of Athletics
 National Association of College Marketing Administrators
 National Association of College and University Attorneys
 National Association of College and University Business Officers
 National Association of the Deaf
 National Association for the Education of Young Children
 National Association of Educators for Vocational Home Economics
 National Association of Independent Colleges and Universities
 National Association of Intercollegiate Athletics
 National Association of Legal Assistants
 National Association of Social Work
 National Association of Student Financial Aid Administrators
 National Association of Student Personnel Administrators
 National Catholic Office of the Deaf
 National Commission for Cooperative Education
 National Council on the Aging
 National Council of Educational Opportunity Associations
 National Council of Family Relations
 National Council of International Studies Program Administrators (NCISPA)
 National Council of Senior Citizens
 National Council of Teachers of English
 National Council of Teachers of Mathematics
 National Fire Protection Association
 OnLine Audiovisual Cataloguers
 Online Consortium of Independent Colleges and Universities
 Optical Society of America
 Project Management Institute (Global Registered Education Provider)
 Senior Coordinating Agency Network
 Sign Language Instructors Guidance Network
 Society of American Archivists
 Society for Nutrition Education
 Society for Technical Communication
 University Continuing Education Association
 West Bloomfield Chamber of Commerce

Academic Programs

MADONNA UNIVERSITY OFFERS PROGRAMS in more than 70 program areas, leading to certificates of completion, certificates of achievement, associate degrees, baccalaureate degree majors and minors, and post-baccalaureate certificates, which are described in this Bulletin. (More than twenty master's degree programs are also available. See Graduate Bulletin.)

Certificate of Completion

A certificate of completion is awarded to admitted Madonna University students who successfully complete an approved program of study (9-29 s.h.) at Madonna University with a grade of C or better in each course.

Certificate of Achievement

A certificate of achievement is awarded in specified areas to admitted Madonna University students who earn 30 semester hours in a planned program of study, including ENG 1010, with a grade point average of 2.0 (C) or better.

Associate Degree Requirements

The associate degree requires a minimum of 60 semester hours with a grade point average of 2.0 (C) or better. The last 15 semester hours must be completed at Madonna University. The 60 hours for the associate degree include: (1) 24-33 semester hours in a major field of study and a minimum of "C" in each course of the major sequence (some associate programs, by exception, have been approved with higher semester hour requirements); and (2) a minimum of 33 semester hours in General Education.

The University Requirement may also apply. See page 49 for more detail on General Education and the University Requirement.

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

Bachelor Degree Requirements

For the baccalaureate degree a minimum of 120 semester hours with a grade point average of 2.0 (C) or better is required. The last 30 semester hours must be completed at Madonna University. Candidates for the baccalaureate degree must also successfully complete the senior comprehensive examination or the equivalent senior seminar for their major(s). Students are encouraged to consider a second major or a minor whenever possible.

The 120 semester hours for the baccalaureate degree include: (1) 30-56 semester hours in a major field of study (majors within the School of Business require 62 semester hours, the B.Mus. major requires 65 semester hours) with a minimum of "C" in each course of the major sequence, including all support courses required by the major; and (2) a minimum of 52 semester hours in General Education.

The University Requirement may also apply. See pages 50-51 for more detail on General Education and the University Requirement.

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 or higher may apply toward a minor. Some major programs require that students complete a particular minor to fulfill degree requirements (see individual plans of study).

While a Madonna 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 when 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.

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 Bulletin, page 39, that 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 general education or a certificate.

Second Baccalaureate Degrees

Students with a baccalaureate degree may pursue a second degree by completing (1) the general education religious studies requirement, (2) the requirements of the second major, including required support courses, and (3) at least 30 semester hours 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 so used. It is acceptable to use courses from the first degree major in the role of required support courses for the second degree major.

The ESL 1010 requirement may also apply. See page 50 under University Requirement for when ESL 1010 is required.



Undergraduate Programs of Study

THE FACULTY OF MADONNA UNIVERSITY are organized into teaching departments within seven colleges and schools. Each program of study at the University has a “home” and advisors in one of these seven 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 Humanities

Room 2432 Administration Building
(734) 432-5543

The School of Business

Room 131 Maertens Building
(734) 432-5354

The College of Education

Room 2228 Administration Building
(734) 432-5655

The College of Nursing and Health

Room 101 DiPonio Building
(734) 432-5717

Saint Mary's College

Administration Building of Orchard Lake Center
(248) 683-0521

The College of Science and Mathematics

Room 1400 Administration Building
(734) 432-5523

The College of Social Sciences

Room 2202 Administration Building
(734) 432-5570

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

The Office of Academic Advising and Prior Learning Program

Room 1111 Administration Building
(734) 432-5417

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	ASSOCIATE Degree Major	BACHELOR Degree Major	Minor	Post-Bachelor Certificate*
Accounting	Business				BS	yes	
Addiction Studies	Social Sciences	yes					
Allied Health	Science & Mathematics			AAS			
Allied Health Administration	Science & Mathematics				BS		
American Studies	Arts & Humanities					yes	
Applied Science	Science & Mathematics			AAS	BAS		
Art	Arts & Humanities						
Fine Arts				AA	BA	yes	
Art History						yes	
Graphic Design				AA	BA		
Visual Arts Education					BA		
Biochemistry	Science & Mathematics				BS		
Biology	Science & Mathematics				BS	yes	
Business Administration	Business			AS	BS	yes	
Business Law courses	Business						
Chemistry	Science & Mathematics				BS	yes	
Child Development	Education			AS	BS	yes	
Clinical Laboratory Sciences/Medical Technology	Science & Mathematics				BS		Completion
Clinical Laboratory Technician	Science & Mathematics			AAS	BAS		
Communication Arts for Secondary Teachers	Arts & Humanities				BA		
Community Leadership	Social Sciences	yes					
Computer Information Systems	Business				BS	yes	
e-Commerce		yes					
Computer Science	Science & Mathematics			AS	BS	yes	
Computer Technology	Business			AS			

* Note on Post-Bachelor Certificates: any undergraduate certificate may also be earned post-bachelor. Designated certificates may be earned only post-bachelor.

COLLEGE HOME		Certificate of Completion	Certificate of Achievement	ASSOCIATE Degree Major	BACHELOR Degree Major	Minor	Post-Bachelor Certificate*
Criminal Justice	Social Sciences	yes		AS	BS	yes	
Homeland Security		yes					
Private Investigation		yes					
Private Security		yes					
Forensic Psychology		yes					
Dietetics	Science & Mathematics				BS		
Early Childhood Education (<i>for elementary teacher certification only</i>)	Education					yes	
Earth/Space Science courses	Science & Mathematics						
Economics courses	Business						
Education (Students in Teacher Education complete an academic major. Refer to EDUCATION in the Plans of Study section for details.)							
English	Arts & Humanities			AA	BA	yes	
English as a Second Language courses	Arts & Humanities						
English/Journalism	Arts & Humanities			AA	BA	yes	
Environmental Science	Science & Mathematics				BS		
Environmental Science for Biology majors						yes	
Environmental Science for Chemistry majors						yes	
Family and Consumer Sciences	Education				BS	yes	
Financial Administration courses	Business						
Fire Science	Science & Mathematics	yes		AS	BS	yes	
Foreign Language (FL) course	Arts & Humanities for Nursing						
Forensic Science	Science & Mathematics				BS		Achievement
General Science (<i>for elementary teacher certification only</i>)	Science & Mathematics				BS		
Geography courses	Social Sciences						
Gerontology	Social Sciences		yes	AS	BS	yes	
Activity and Program Planning			yes				
Case Management			yes				
Dementia Care			yes				
Elder Care Practice			yes				
History	Social Sciences				BA	yes	
Hospice Education	Nursing & Health	yes		AS	BS	yes	
Hospitality Management	Business				BS	yes	
Humanities	Arts & Humanities					yes	
Integrated Science	Science & Mathematics				BS		
Interdisciplinary Studies	Saint Mary's College				BA		
International Business	Business				BS		
International Studies	Social Sciences	yes					
Japanese courses	Arts & Humanities						
Journalism and Public Relations	Arts & Humanities			AA	BA		
Journalism						yes	
Language Arts	Arts & Humanities				BA		
Long Term Care Administration	Social Sciences			AS	BS		
Nursing Home Administration Pre-Licensure		yes					
Management-Human Resources Management	Business				BS		
Quality and Operations Leadership		yes					
Marketing	Business				BS		
Sales Specialist		yes					
Mathematics	Science & Mathematics				BS	yes	
Mathematics for Elementary Certification (<i>for teacher certification only</i>)	Science & Mathematics				BS	yes	
Medical Technology: <i>see Clinical Laboratory Sciences</i>	Science & Mathematics						
Merchandising Management	Business					yes	
Fashion Specialization		yes	AS	BS			
General Retail Specialization		yes	AS	BS			
Music	Arts & Humanities						
General Music concentration					BA	yes	
Music Management concentration					BA		
Church Music concentration					BMus		
Instrumental Performance concentration					BMus		
Piano Performance concentration					BMus		
Vocal Performance concentration					BMus		
Music Education concentration					BMus		
Piano Pedagogy		yes					

	COLLEGE HOME	Certificate of Completion	Certificate of Achievement	ASSOCIATE Degree Major	BACHELOR Degree Major	Minor	Post-Bachelor Certificate*
Natural Science	Science & Mathematics			AS	BS	yes	
Pre-Radiography/Pre-Nuclear Medicine Technology				AS			
Nurse Paralegal.....	Social Sciences						Achievement
Nursing	Nursing & Health				BSN		
Nutrition and Food Science	Science & Mathematics			AS	BS	yes	
Occupational Safety and Health.....	Science & Mathematics	yes				yes	
Occupational Safety, Health, and Fire Science	Science & Mathematics			AS	BS		
Environmental Safety and Health.....		yes					
Occupational Teacher Certification.....	Education						
Paralegal Studies.....	Social Sciences			AS	BS		Achievement
Pastoral Ministry.....	Arts & Humanities				BA	yes	
Philosophy	Arts & Humanities					yes	
.....	Saint Mary's College				BA	yes	
Physical Educaton (for teacher certification candidates only)	Education					yes	
Physics	Science & Mathematics					yes	
Polish Studies.....	Saint Mary's College				BA	yes	
East/Central European Studies						yes	
Polish Translation.....		yes					
Political Science.....	Social Sciences					yes	
Pre-Engineering (Consortial arrangement with University of Detroit Mercy)	Science & Mathematics						
Pre-Law (Students must complete an appropriate major)	Social Sciences						
Pre-Pharmacy	Science & Mathematics			AS			
Preprofessional:	Science & Mathematics						
Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Osteopathy, Pre-Podiatry, Pre-Veterinary							
(Students complete appropriate majors. Students should become familiar with the exact requirements of the school to which they will apply.)							
Pre-Radiography	Science & Mathematics			AS			
Professional and Technical Writing.....	Arts & Humanities				BA	yes	Completion
Psychology.....	Social Sciences						
General Psychology concentration		yes			BS	yes	
Business concentration					BS		
Mental Health concentration.....		yes			BS	yes	
Research concentration		yes			BS		
Addiction Studies		yes					
Forensic Psychology		yes					
Quality and Operations Leadership courses	Business						
Quantitative Systems courses.....	Business						
Radiography courses	Science & Mathematics						
Religious Studies.....	Arts & Humanities			AA	BA	yes	
Sacred Theology.....	Saint Mary's College				BA	yes	
Sign Language Studies.....	Arts & Humanities	yes		AA		yes	
Interpreting concentration					BA		
Professional Studies concentration.....					BA		
Social Studies	Social Sciences				BA	yes	
Social Work	Social Sciences				BSW		
Sociology.....	Social Sciences				BA	yes	
Community Leadership.....		yes					
Spanish	Arts & Humanities				BA	yes	
Speech Communication	Arts & Humanities					yes	
Sport Management.....	Education				BS	yes	Achievement
Television and Video Communications	Arts & Humanities			AA	BA	yes	
Writing and Media Studies.....	Arts & Humanities			AA	BA	yes	

*Note on Post-Bachelor Certificates: any undergraduate certificate may also be earned post-bachelor. Designated certificates may be earned only post-bachelor.

This chart is used as a guide and is subject to change without notice. Please refer to Department Chairpersons.

Academic Options

The University Year: Flexible Scheduling

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

Fall Term: 15 weeks, September through December

Winter Term: 15 weeks, January through April

Spring/Summer Term: 12 weeks, May through July
6 weeks, May through June
6 weeks, June through July

Students may attend morning, afternoon, evening, or Saturday classes. Most classes are scheduled according to the following time blocks.

Weekday Classes

8 a.m.-Noon

1-4 p.m.

4-7 p.m.

7-10 p.m.

Saturday Classes

9 a.m.-Noon

1-4 p.m.

and alternative
scheduling

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

Advanced Placement

Madonna University is a participant in the Advanced Placement Program of the College Entrance Examination Board (CEEB). Under this program, a high school student who earns a grade of 3, 4, or 5 on an Advanced Placement Examination automatically receives college credit in the area of his or her proficiency.

Advanced Placement scores and college credits are recorded on the student's transcript. Applicants who seek advanced placement should have examination results sent to the Office of Undergraduate Admissions.

Career Education

Madonna University's Career Services Office offers individual assessment and short seminars and workshops which prepare students for the work world and which assist the student in integrating a liberal education with career goals. A full description of these services can be found in the Student Services section.

Catholic College Consortium

Madonna University is a member of the Detroit Area Catholic Higher Education Consortium. Institutions participating together with Madonna University are Marygrove College, 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 term, a full-time student must be registered for a minimum of 8 semester hours at Madonna University. Part-time students must be registered for a minimum of 6 semester hours, at least 3 of which must be at Madonna University.

Continuing Education Units

Each term Madonna University offers a wide variety of opportunities for life-long learners seeking to advance or change their present careers. Long and short courses for Continuing Education Units (CEUs) are offered in the areas of health and human services, business and management, computers, and personal enrichment.

Continuing Education Units are a nationally recognized form of measurement which may be used as evidence of increased performance capabilities and personal interest, but not as college credit. One CEU equals ten instructional hours. Registration and scheduling are coordinated by the Office of Continuing Education and sponsoring departments. Continuing Education Units may not be converted at a later date to academic credit.

Cooperative Education (Co-op)

A Madonna University student can earn university credit for work related to the student's plan of study. Cooperative education credit is approved by the faculty member who supervises, evaluates, and grades the student's performance. Students may also integrate a cooperative work experience with a course that calls for field experience, practicum, internship, or seminar.

Madonna University's Career Services Office coordinates student placement in the areas of business, industry, government, and service agencies. Application deadlines are:

Fall Term: June 1st

Winter Term: October 1st

Spring/Summer Term: February 1st

For additional information on work-study options, see the Academic Policies section.

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, e-mail, BlackBoard, telecourses, audio tapes, videotapes 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 *e-mail* or *BlackBoard*, an online course management tool that allows participants to share information. A *telecourse* is an educational package which may include video programs, audio tapes, e-mail, a study guide, textbook, and some on-campus sessions with an instructor. Videotapes or DVD's 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. Students who register for distance learning options should be self-disciplined learners. Library services 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.** Students beyond sophomore standing may not earn credit in two-year institutions for transfer to Madonna University.

Madonna University uses the Michigan Uniform Undergraduate Guest application. This assists visiting students in earning credits to be applied toward a program at their home institution. Students must have written approval from their advisor and the Registrar to obtain a Michigan Uniform Undergraduate 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 good for only one term. A grade of C or better will transfer (credit only, no honor points).

If admitted students take classes at another institution but fail to secure the necessary approval or authorization, the credits taken at the other institution will 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.

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 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 a S/F basis, are documented on the form Petition and Authorization for Independent Study which must be attached to the normal registration paperwork.

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 and NLN), Armed Services Evaluations (for education in military services), University Department Challenge Tests (e.g., those for CIS 2250 and 2380), 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 bulletin, or the Office of Prior Learning (PLP).



Service Learning

Academic service-learning is an experiential teaching and learning methodology that facilitates a deeper understanding of course objectives through engagement in relevant and meaningful community service. Service-learning 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 courses are regularly offered across most academic departments. Examples of service-learning projects include business students designing business and marketing plans for youth programs, nursing student providing health screenings for residents at an elder living center, and psychology students assisting at a crisis center and hotline.

Students interested in service-learning may wish to consider earning a Certificate of Achievement in Community Leadership (see under Plans of Study, Sociology). For more information, students should contact the Office of Service-Learning in the Maertens Building.

Study/Work/Travel Abroad

Madonna University promotes the expansion of international education through curricular development, through international exchange programs and the active recruitment of international students, and through study, work, and travel abroad opportunities for Madonna students. The University has a number of existing affiliations with universities in Austria, Belgium, Great Britain, Italy, Japan, Mexico, Poland, and Taiwan, as well as a resource library of programs throughout the United States. Students interested in these and other study, work, and travel abroad opportunities should contact the Center for International Studies or the Office of the Vice President for Academic Administration.

Weekend Pathways

Weekend Pathways offers a unique alternative to the typical weekend college by allowing students to finish selected certificate, bachelor, and master's degrees by enrolling in a combination of weekend classes, telecourses, and online courses, as well as submitting a portfolio for credit for prior learning. All classes required for specified programs are delivered through Weekend Pathways, including General Education requirements. In keeping with the mission of Madonna University, the program also offers 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.

The First-Year-of-College Experience

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 encourages 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 1010, 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 1010 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.



Students who would like more information about the Madonna University **Collaborative Studies** program should contact the Office of the First-Year Experience.

The University recognizes that students experiencing their First Year of College are in a unique time of transition. Madonna University is people, and to help students make new friendships, form relationships with faculty and staff members, and make the adjustment to a new community and environment, the University sponsors a first-year-of-college program, which includes the following components:

- **Orientation:** All first-time university students are required to attend one of the orientation programs sponsored in late spring and summer, prior to the beginning of the fall semester.
- **UNV 1010, Transition to Higher Education:** This one-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. 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: International students will substitute ESL 1010 for UNV 1010 in this aspect of the First Year Experience.)
- **Collaborative Studies:** Incoming students are encouraged to participate in the Collaborative Studies program, which typically links two General Education courses with a section of UNV 1010. 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 1010.

The overall goal of the First-Year program is to help students to make a healthy embrace of their new identity as college students and assist them in assuming responsibility for themselves and their education.



Admissions

MADONNA UNIVERSITY WELCOMES students of various ages and economic, cultural, experiential, and religious backgrounds. Consideration for admission is given to all qualified applicants who can 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 programs of the University.

Application Procedure and Requirements

1. Submit a complete application for admission and the nonrefundable admission fee. High school students may submit applications as early as their junior year.
2. Arrange to have the following documents sent directly to the Office of Undergraduate Admissions:

First-Time University, Non-Nursing, Applicants:

First time University, non-nursing, applicant students may apply for admission at the beginning of any semester, and should have the following documents sent *directly* to the Office of Undergraduate Admissions for admission consideration:

- Official high school transcript or General Education Development (GED) test results.
- Written or typed essay (suggested minimum 250 words) describing why one feels he/she would be successful at Madonna University and explain, if necessary, any unusual circumstances which affected prior academic performance. Students submitting the Enhanced ACT with the Writing Test or the SAT are waived from the essay requirement.
- If applicable, official Advanced Placement (AP) or College Level Examinations Program (CLEP) test results.

For all current high school students or recent high school (within the last two years) graduates:

- ACT College Report indicating results of the ACT or Enhanced ACT Assessment. Madonna University must be the direct recipient of this report. The ACT code number for Madonna University is 2022.

or

- Scholastic Aptitude Test Report (SAT) indicating results of the SAT. Madonna University must be the direct recipient of this report. The SAT code number for Madonna University is 1437.

First-Time University, Non-Nursing, Homeschool Applicants:

Madonna University welcomes homeschool program applicants. Homeschool applicants must submit a final transcript signifying high school graduation/completion, or an official GED score report, along with official ACT or SAT scores. Homeschool applicants should contact the Office of Undergraduate Admissions for additional admission requirements.

Transfer Non-Nursing Applicants:

Transfer students may apply for admission at the beginning of any semester, and should have the following documents sent *directly* to the Office of Undergraduate Admissions for admission consideration:

- If fewer than 24 semester hours of transferable credits from regionally accredited institutions, official high school transcript, or the equivalent, must be submitted by all applicants seeking an associate or bachelor degree.
- Official transcript(s) from all previously-attended colleges.
- If fewer than 30 semester hours of transferable credits from regionally accredited institutions, an essay as described above.
- If applicable, official Advanced Placement (AP) or College Level Examinations Program (CLEP) test results.

The University reserves the right to request additional personal information and evidence of academic proficiency. Specific programs and departments within the University may require additional documentation.

All NURSING and PRE-NURSING applicants should refer to the Nursing Plan of Study on page 80 or contact the College of Nursing and Health for admission requirements and procedures.

Notification of Admission

All applicants can expect to receive written notification of their admission status within a period of two weeks following receipt of the required application documents by 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 designated advisor to design a plan of study. Students must meet the General Education requirements of the University Bulletin in effect at the term for which they are formally admitted or readmitted. (Graduation requirements in the major must be met according to the University Bulletin in effect at the time the major is declared.)

Regular Admission, Non-Nursing Applicants

Regular, non-nursing, admission status is granted to:

- Students attending college for the first time within 2 years of high school graduation who have a minimum grade point average of 2.75 and an ACT standard composite score of 20 or higher.
- Transfer students in good academic and personal standing at prior institutions with a minimum grade point average of 2.0 on a 4.0 scale, while having completed two-thirds of all courses attempted.

Specific programs and departments within the University may have higher and/or additional requirements for admission into that program or department. Students should consult the Plans of Study portion of this University Bulletin for further information. Additional assistance can be obtained through the student's faculty advisor.

Provisional Admission

Provisional admission is offered to those applicants whose credentials may not satisfy the above criteria but whose maturity and seriousness of purpose indicate evidence of possible success. Students granted provisional admission:

- will be notified in the admissions letter of the reason they were not granted regular admission;
- will be assigned a designated advisor and will be required to meet

with the advisor before registration each term;

- will be required to comply with one or more of the following conditions:
 - a) report for testing (English, Mathematics, and/or Reading) within 30 days from the date of admission
 - b) register for one or more specified courses (e.g., ENG 1000, MTH 1040) within the first year following admission
 - c) contact a specified office (e.g., Office of Disability Resources, ODR; Center for Personalized Instruction, CPI) within 30 days from the date of admission
- will have one calendar year to successfully complete specified courses, achieve “satisfactory academic progress” (as defined in the current University Bulletin) and, if successful, will be granted regular status.

Non-admitted Students/Non-degree Seeking Students

A student may register for no more than *two* terms in the non-admitted and/or non-degree or -credential seeking student status. Students in this status must complete a “Permit to Register” form, and are asked to complete an undergraduate admissions application within eight weeks. One additional permit is allowed for the next term of attendance. The “Permit to Register” is obtained in the Office of Undergraduate Admissions.

All 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 Registration and Readmission

Students admitted to Madonna University who have not been in attendance for two years at the University, or who have transferred meanwhile to another institution of higher education, are required to file an application for readmission. Baccalaureate graduates of Madonna University returning for additional study are not required to apply for readmission, but must reactivate their file with the Office of Academic Advising.

Students who are readmitted to the University must meet the degree requirements of the University Bulletin 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.

The admission files of applicants who are admitted for a specific term but who do not register, are held in the Office of Undergraduate Admissions for no more than one year following the student’s official application term. After this period, non-registered applicants must apply for readmission. Incomplete admission files of non-registered applicants are also not kept beyond one year of the students’ official application term.

Readmission After Termination

A person who has been terminated and is seeking readmission is required to follow the normal admissions process (including application fee) and to provide documentation of activities during the dismissal period which supports the individual’s readiness to resume an academic career at Madonna University. This process must be completed well in advance of the beginning of the term for which readmission is desired and no later than December 1, March 1, or July 1 for admission to the following term. Students seeking readmission within two years of termination must contact the Office of Student Life for reinstatement.

Early Admission of High School Students

High school students of superior ability who have completed their junior year may be admitted to the freshman class at Madonna University. However, recommendation from the high school principal must accompany such an application, indicating that the student has a scholastic standing of 3.0 or better. A personal interview is required prior to admission.

Dual Enrollment for High School Students

Superior senior high school students may enroll in one or more lower division courses at Madonna University. It is thus possible for the student to earn university credits while concurrently completing high school graduation requirements. An application for dual enrollment can be obtained through the Office of Undergraduate Admissions.

Transfer Students

Students transferring to Madonna University from either a two-year or four-year institution must provide evidence that they are in good academic and personal standing at their previous colleges. For admission and scholarship consideration, all credits and honor points will be averaged to determine a transfer Grade Point Average (GPA). All semester hours accepted will be listed on the Official Transfer Credit Evaluation, along with a notation of the actual number of hours accepted by Madonna University. Only those courses completed at a regionally-accredited institution with a grade of C (2.0) or better will be considered for transfer credit. Students may transfer no more than 74 semester hours or the equivalent from all two-year colleges attended. Grades are not transferable.

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

Transfer students pursuing their second baccalaureate degree at Madonna University must complete the Religious Studies requirement for General Education and the desired major. They must earn at least 30 semester hours at Madonna University, including electives if necessary.

Transfer students pursuing an associate degree at Madonna University must complete the requirements for General Education and the desired major. The last 15 semester hours of the 60 semester hours required for the associate degree must be earned at Madonna University.

The University will consider accepting credits from degree-granting institutions listed in Accredited Institutions of Higher Learning published by the American Council on Education.

All requests for adjustments, additions, and corrections to the Official Transfer Credit Evaluation must be submitted in writing to the Office of Undergraduate Admissions within the term following the student’s admission to the University.

In addition, credit will not be granted at a later date for coursework completed at an institution not listed on a student’s application for admission, nor will that credit be added if the student has cause to be readmitted to the University. A student may be liable for dismissal if it comes to light that a prior academic history was omitted in order to gain admission.

Transfer students who do not complete the formal admission process after their first term of enrollment *may* have their admission status cancelled and/or denied.

Satisfying the MACRAO Transfer Agreement

Madonna University welcomes graduates with associate degrees from community colleges whose educational goal is to pursue a bachelor degree.

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

A "MACRAO-satisfied" Associate of Arts or Associate of Science degree from a community college is generally recognized as fulfilling the first two years of General Education 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.

Students whose transfer course work satisfies the MACRAO guidelines may be required to complete the following General Education requirements to complete a baccalaureate degree, in keeping with the philosophy of Madonna University:

Religious Studies	6 s.h.
3000/4000 (junior- or senior-level) literature course	4 s.h.
Biological Science or Physical Science or Mathematics	3-4 s.h.
Computer Literacy*	2-3 s.h.
Social Sciences	7 s.h.

*Students are required to pass a computer literacy course within their first three (3) semesters at Madonna University, unless they have received transfer credit for such a course taken within the past three (3) years.

Advanced Standing for Nontraditional Students and Prior Learning

Madonna University believes that higher education should be available to persons throughout their lifetime and not just immediately after high school graduation. The University welcomes all persons who wish to return to study later in life, either on full-time or part-time schedules. Military personnel, civil service employees, management and supervisory personnel from business and industry, homemakers, and personnel from allied health occupations may pursue degree programs appropriate to their lifetime interests. All applicants follow the regular admissions procedures.

Candidates from areas of specialization, e.g., law enforcement, health, fire protection, and occupational safety, may receive credit for on-the-job field experience and for related knowledge. Please consult with a departmental academic advisor for more information.

Each academic department determines the credit awarded for external study experience and professional training. A personal interview with the Prior Learning Director is required.

Prior Learning credits are transcribed onto a student's academic record by the Office of the Registrar after the student has successfully completed 12 semester hours at Madonna University.

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 before the I-20 is issued:

1. A \$200 non-refundable admission application fee.
2. 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. (Madonna University has no financial aid program for international students.)
3. Copy of passport identification page.
4. For non-native speakers of English, official results of the Test of English as a Foreign Language (TOEFL and TWE) or an equivalent English proficiency test such as MELAB or IELTS, or agreement to be tested using an institutional English placement test upon arrival on campus.
5. Residence Hall contract. (International students with no residence in the United States are required to live on campus during the first semester of study.)
6. Completed health record for those planning to live on campus.

Prior to the end of the first week of term, the following must be provided to the Student Accounts Office:

- Proof in English of catastrophic health insurance coverage in the United States. Without such proof of health insurance, student insurance must be purchased through Madonna University (2005-2006 cost: \$525 per year for students under age 35). The student's account will be charged automatically. After Friday of the first week of term, no credit for health insurance may be processed. Please send proof of coverage via FAX (734) 432-5344 to Student Accounts Office, and an e-mail (sa@madonna.edu) indicating that the FAX has been sent.
- \$100 room damage deposit, if residing in the Residence Hall.
- Tuition and fees for the first semester. All international students are required to remit payment in full at the time of registration.

Note: All non-native speakers of English who are attending an English-speaking university or college for the first time are required to take ESL 1010, Orientation to Higher Education, 3 s.h. For those students who would otherwise have UNV 1010, Transition to Higher Education, as a graduation requirement, ESL 1010 replaces UNV 1010.

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

Non-Native Speakers of English

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

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

Students who do not meet the listed standards may obtain *provisional admission* to the University, and are required to successfully complete the appropriate number of ESL courses as determined by individual placement testing. During the time students are on ESL

provisional status, it is necessary to meet each term with the ESL advisor before registering for classes.

If the student scores at the advanced level of the Madonna University English placement test, other content courses may be taken concurrently with the required ESL courses. ESL courses are credit bearing, and 23 s.h. may apply towards the baccalaureate degree requirements. ESL 4230, Research Paper Writing, is taken by non-native speakers of English in place of ENG 1020 and fulfills the general education requirements for this English course. All ESL course grades are compiled in the student's grade point average (GPA).

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

- Baccalaureate degree from an accredited college or university in the United States, Great Britain, Ireland, Canada, Australia, or New Zealand; **or**
- Test of English as a Foreign Language (TOEFL) with a minimum score of 540 for the paper-and-pencil test or of 207 for the computer based test; **either** test must be accompanied by the Test of Written English (TWE) with a minimum score of 5; **or**
- Internet Based TOEFL (iBT) with a minimum score of 76; **or**
- MELAB score of 80+; **or**
- IELTS score of 6.5+.

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.

Note: All non-native speakers of English who are attending an English-speaking university or college for the first time are required to take ESL 1010, Orientation to Higher Education, 3 s.h. For those students who would otherwise have UNV 1010, Transition to Higher Education, as a graduation requirement, ESL 1010 replaces UNV 1010.

Contractual Agreements

Madonna University has a number of contractual agreements with area institutions. 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 has successfully completed 12 semester hours at Madonna University. *It is the responsibility of the student to verify with his/her academic advisor that procedures and paperwork for this transcription are in place.* Additional information may be obtained through the Office of Undergraduate Admissions.

Center for Progressive Learning (formerly the American Institute of Banking): Students may transfer a maximum of 30 credit hours with a grade of C or better from the Center for Banking Education as electives toward any major in the School of Business for a bachelor of science degree at Madonna University.

EMS Provider Institute: Graduates of the EMS Provider Institute will be granted 10, 16, or 26 credit hours, depending upon their current state licensure as a Basic EMT, Advanced EMT, or both. These credits may be applied towards the majors in Fire Science (FS) or Occupational Safety, Health, and Fire Science (OSF), or as general electives towards another degree program at Madonna University.

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 Coordinator for Fire Science (FS)/ Occupational Safety, Health, and Fire Science (OSF) in the Physical and Applied Sciences Department. Credits to be awarded will be determined on an individual basis after the student has successfully completed 12 s.h. at Madonna University. These credits may apply toward degree completion in the Fire Science major, or in the Occupational Safety, Health, and Fire Science major.

Michigan Technical Institute: Graduates of the Michigan Technical Institute Computer/Data Processing Program, will be awarded a maximum of 30 semester hours of credit when they are admitted to Madonna University. Some of these credits will be recognized as satisfying requirements for a major in computer science or computer information systems. Other credits will be accepted as general electives. These credits will apply toward the requirements for the associate of science degree or the bachelor of science degree at Madonna University.

National Education Center (National Institute of Technology): Graduates of the National Education Center who have completed the Electronics Technology program are granted 31-38 semester hours of credit. These credits will be recognized as the core for a major in electronics technology applied toward an associate or bachelor degree in applied science. Students interested in this degree should contact the College of Science and Mathematics. Graduates may also choose to have these credits apply toward other degrees.

Specs Howard School of Broadcast Arts: Students who have completed Specs Howard School of Broadcast Arts program in Fundamentals of Practical Broadcasting Arts are granted up to 20 semester hours to be applied as the specialty area within the Television and Video Communications major. Students apply to the English and Communication Arts department for the credit after having successfully completed 12 semester hours at Madonna University.



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 is in effect beginning in Term I of the academic year 2006-2007. Tuition rates are re-viewed annually.

Tuition Rates

U.S. Residents per Semester Hour

Regular and Audit	\$362
Nursing	\$410
Graduate	\$417
Prior Learning	\$ 65
Testing Fee	\$.25 per evaluation/exam

International Students per Semester Hour (F or J Visa)

Regular and Audit	\$452.50
Nursing	\$512.50
Graduate	\$521.25
Prior Learning	\$ 65
Testing Fee	\$.25 per evaluation/exam

Students who obtain a Permanent Alien/Resident Card prior to the start of the term are exempt from the International Student Rates for the term. No retroactive adjustment will be authorized for a prior term.

Fees

Madonna University reserves the right to change fees without advance notice. Inquiries relating to fees should be referred to the Student Accounts Department in writing or at (734) 432-5600.

General Fees

Admission Application (non-refundable)*	\$ 25
International Student Admission Application (non-refundable)*	\$200
Advance Enrollment Deposits, Nursing Students	\$ 75
<i>This fee is required of all students entering the nursing program, to guarantee the student's intent to enroll at Madonna University. The deposit is applied to the amount due at registration; it is non-refundable in the event of the student's withdrawal.</i>	
Certificates	
Achievement	\$10
Completion	\$10
Course Fees (non-refundable)*: Required course fees are published in the class schedule each term.	
Special Course Fees:	
Directed Teaching (per semester hour)	\$ 17.50
Private Music Instruction (per course)	\$ 95
Deferred Tuition Fee: All tuition and fees are payable in advance, unless the student chooses to participate in one of the available payment plans at an additional cost of \$15. (See Schedule of Classes for available plans.)	\$ 15
English as a Second Language (ESL) Placement Exam Fee (non-refundable but applied to subsequent enrollment in ESL classes)	\$ 25
Graduation Fee (non-refundable)*:	\$ 50
Late Payment Penalty for unpaid balances:	
	5% up to a maximum of \$50

Late Submission of Application for Graduation	\$10
Madonna OneCard:	
Lost card	\$ 20
Returned as undeliverable	\$ 5
Parking	Free in all lots
Prior Learning Testing Fee (per evaluation)	\$ 25
Registration Fee (non-refundable)*:	
Open registration prior to first week of classes	\$ 50
First Week of Classes, Fall and Winter terms	
Returning students	\$100
New students	\$ 50
First Week of Classes, Spring/Summer term	
All students	\$ 50
Replacement Fees	
Diplomas	\$ 30
Certificates	\$ 30
Student Account Records	\$ 5 per term
Student ID card	\$ 5
Returned check penalty	\$ 15
Study Abroad (administrative fee)	\$ 30
Suspension Fee	\$ 10
Reinstatement Fee	\$ 50
Transcription Fee	\$ 50
Transcript of credits	
Issued to Student (in extenuating circumstances only)	\$ 10
Mailed	\$ 5

Residence Hall Fees

Room (rented per term)

Double	\$ 2,652 two terms / \$ 1,326 per term
Suites	\$ 3,106 two terms / \$ 1,553 per term
Private	\$ 4,206 two terms / \$ 2,103 per term
Per Night	
Without linens	\$18 per night
With linens	\$20 per night
Room Reservation (non-refundable but applicable to room rent)	\$75

NOTE: Rooms are rented for a term; no refund is made in case of withdrawal.

Board

20 Meal Plan	\$ 3,294 two terms / \$ 1,647 per term
15 Meal Plan	\$ 3,224 per year / \$ 1,612 per term

Students living on campus are required to take their meals in the University Dining Hall. Because of 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.

Incidentals

Key Replacement	\$ 10
Room Damage Deposit	\$100

Checks should be made payable to MADONNA UNIVERSITY.

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

STUDENT PAYMENT POLICIES

STUDENTS MAY REGISTER for courses when the past-due financial obligations have been met.

Students may register online (ID number and PIN required) through the Madonna University website, www.madonna.edu. Registration forms are located in the current term's Schedule of Classes or from the Registration counter. Tuition and fees may be required at the time of registration. See each term's Schedule of Classes 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 term, are not entitled to register, receive transcripts, or receive a diploma or certificate until the account is settled.

Payment Plans

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; the university **no longer accepts Visa** cards).

An online payment system is available at www.madonna.edu (click under Quick Links).

- Pay by **e-check**: no service fee.
- Pay by **credit card**: credit card payments are charged a service fee:
 - 2.90% for payment from \$0.01 to 3,000.00;
 - 2.50% for payment of \$3000.01 and over.

Madonna University uses a third-party payment vendor, CASHNet®. (The Student Accounts Office is no longer able to process credit card payments at the service window or over the phone.)

- Payment may also be 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. Students are provided with ID numbers and PINs and may at any time review on the web their account balance. Go to www.madonna.edu and log in to Online Registration. Choose the "My Profile" tab. Your current balance is printed in the lower right-hand area after your current course schedule. (This balance contains "items that are under review and not posted.") Click the *StudentAcc/Receivable* link for the posted detail of your student account (items under review are not included in the detail) and a printable format.

NOTE: Each billing due date will have an associated billing close date. The close date will be approximately two weeks prior to each billing due date. Students who register, or add to their registration, after the first closing date for the term, will be required to remit payment at the time of registration or changes to an existing registration. Students registering for non-credit or CEUs will be required to pay 100% of the charges at the time of registration.

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 of \$15 (see Schedule of Classes for available plans). The deferred payment plan is denied to students whose accounts have in the past been referred to a collection agency because of the student's failure to pay the university.
 3. Failure to meet the required minimum advance payment due date will result in the suspension of the student's registration. In order to reinstate the registration, the student is required to pay a \$10 suspension fee in addition to the 50% minimum payment. If the student decides not to attend, he/she should withdraw in writing through the Registrar's Office. At the end of add/drop week, any student whose registration has been canceled by the Student Accounts Office is required to pay a \$60 assessment fee along with 100% of that term's charges in order to be reinstated.
 4. 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 official 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: veteran benefits and special department awards.
5. Students whose employers will be invoiced for tuition and expenses may submit a billing authorization form prior to the billing close date in lieu of the advance payment.



Billing Error or Dispute

Errors or disputes about a bill must be submitted in writing within 60 days after the mailing date of the bill. The written inquiry must include: name and Social Security number, a description of the presumed error, and the dollar amount of the presumed error.

The student remains obligated to pay the portion of the bill not in dispute, but the disputed amount may remain unpaid until such time as the problem is resolved. Send billing inquiries to Student Accounts Office, Madonna University, 36600 Schoolcraft Road, Livonia, Michigan 48150-1173.

Other Fees

1. Late Payment Penalty:
 - a.) Failure to meet the required minimum advance payment due date will result in the suspension of the student's registration. Prior to the end of add/drop week, in order to reinstate the registration, the student is required to pay a \$10 late payment fee in addition to the full payment. At the end of add/drop week, in order to reinstate the registration, the student is required to pay \$50 in addition to the full payment. A student who does not plan to attend must withdraw through the Registrar's Office.
 - b.) A penalty of 5 percent up to a maximum of \$50 is assessed if the second payment is not received by the invoice due date.
2. Returned Checks: Checks returned for any reason will constitute non-payment and will be subject to a \$15 penalty per check. Late penalty charges will be assessed when applicable.
3. A Late Registration Fee of \$100, rather than the standard Registration Fee of \$50, is charged to returning students who register during the first week of class each term.
4. Change in Registration Fee:
 - a.) Complete Drop: A complete drop is assessed the \$50 registration fee. The registration fee is non-refundable. If you enroll, but do not attend, the registration fee for the enrollment process and reservation of courses is still due.
 - b.) Add/Drop Change of Courses: A minimum of 50% of the increased tuition and fees resulting from a change in registration made after the billing close date must be paid at the time of adjustment.
5. Record Replacement Fee: Requests to duplicate billing records to verify payments are assessed a \$5-per-term replacement fee.

Tuition Credit Adjustments

Students are required to drop or withdraw officially from classes in person or in writing through the Registrar's Office. Written notification may be faxed over the weekend or after business hours to fax number (734) 432-5405. Students may drop/withdraw in person during business hours. The date that the Registrar's Office 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 for the courses. In such cases the grade of F 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 TERM:

Add/Drop Week	100%
Drop Week	100%
Third week of term	75%
Fourth week of term	50%
Fifth week of term	25%

No credit past the fifth week.

CLASSES, WORKSHOPS and SEMINARS LESS THAN FULL TERM:

The Drop/Withdrawal Policy for courses with start and end dates that differ from those of full-term courses is defined by the following schedule:

Course Duration	Tuition Credit Adjustment (percentages shown is percent credited)						
	Prior to start date	1st day	2nd-7th day	8th-14th day	15th-21st day	22nd-28th day	29th-35th day
1 week or less	100%	25%	0%	0%	0%	0%	0%
2-4 weeks	100%	25%	25%	0%	0%	0%	0%
5-7 weeks	100%	100%	100%	50%	25%	0%	0%
8-15 weeks	100%	100%	100%	100%	75%	50%	25%

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 to the Manager of Student Accounts.



Refunds

When students decrease their schedule or withdraw 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 receive cash refunds.

A student's account that has a credit balance from financial aid/loans is automatically refunded. Madonna University has partnered with Higher One, a financial services company, to manage refunds with new options for processing. *All refunds are processed through Higher One.*

New students will receive a Madonna Debit OneCard within three weeks after their first term of enrollment. Students go online at www.MadonnaOne.com to select their choice of (1) having funds disbursed to the Madonna OneCard for use in credit card transactions (funds available within 24 hours); (2) having funds transferred to the student's own checking or savings account (three days); or (3) having a check sent to the home address as (five days or more).

The Madonna OneCard is encouraged, but not mandatory. There is a replacement cost for lost cards or cards that can not be delivered because of incorrect addresses.

A credit balance of \$2 or less is not refunded unless specifically requested and is not credited against future registration charges after the end of the term in which the credit is generated.

Non-Refundable Fees

1. Admission Application fee or International Student Admission Application fee.
2. Graduation fee: A non-refundable graduation fee of \$50 is charged each 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 Student Accounts Office 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. See the University Calendar for deadlines.
3. Registration fee: This fee covers the cost of enrolling you in classes and holding a seat for you. If you register, then completely withdraw or do not attend class, you are still responsible for payment of this fee.
4. Room and Board fees: These fees are refundable in accordance with the full-term tuition credit adjustment schedule. Rooms are rented for a semester; after the 4th week of school, no refund is made in case of withdrawal. After the 4th week, no refund can be made on the board fee because of contractual arrangements relating to service in the dining hall.

STUDENTS CALLED TO ACTIVE MILITARY DUTY

Students who are called to active military duty and have their program of study disrupted may contact the Registrar's Office or the Student Life office 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 students suffer a loss of funds or educational opportunity because they were called to military service.

Contact one of the following offices:

- Office of Student Life, Room 2101, (734) 432-5429.
- 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, Social Security benefits, untaxed income, and earnings from both the student's spouse and/or parents.

Because the demand for student aid exceeds the supply of funds available, 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.

Eligibility for Financial Aid

The eligibility requirements for the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Michigan Tuition Grant, Michigan Competitive Scholarship, Federal Stafford Loan, Federal Plus Loan, Federal Parent Loan for Undergraduate Students (PLUS), and Federal Work-Study are as follows:

1. 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.
2. 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 are NOT counted in determining a student's eligibility for any type of financial aid.
*Less than half-time students may qualify for some programs. See the Financial Aid Office for details.
3. The student must have a high school diploma, a GED, or pass a test approved by the U.S. Department of Education.
4. To be eligible to apply for and/or to continue to receive financial aid, the student MUST be making satisfactory academic progress. Satisfactory progress is determined based on two criteria: cumulative grade point average and movement toward a degree as measured by course completion. The student must maintain a minimum cumulative GPA of 2.0. In addition, the full-time student must successfully complete a minimum of 20 s.h. per academic year. Half-time students (those enrolled for 6-11 s.h.) must complete a minimum of 10 s.h. per academic year. A formula will be applied to determine the completion factor for students whose enrollment status (FT, HT) changes from one term to the next.

Students who do not meet the criteria of "satisfactory progress" will be placed on financial aid probation the following term they enroll.

Failure to make satisfactory progress during the probation term will result in dismissal from the University and loss of all Federal, State, and institutional aid.

Students may appeal their dismissal and/or loss of aid to the Vice President for Student Services.

More detailed information on Satisfactory Academic Progress is available in the Policies section of the Bulletin and upon request from the Vice President for Student Services.

5. The student must not be in default on a student loan or owe an overpayment on a student grant.
6. The student must have demonstrated financial need.

In addition to the criteria listed above, applicants must be officially admitted to Madonna University and be enrolled in a degree or certificate program to be eligible for the Federal Pell Grant, Federal Supplemental Grant, Federal Perkins Loan, Federal Work Study, Federal Parent Loan for Undergraduate Students (PLUS), and Federal Stafford Student Loans.

NOTE: Graduate students receiving Financial Aid: Your aid will be based only on the number of graduate level courses (those numbered 500 and above) that you enroll for each term. Undergraduate hours DO NOT count in determining your eligibility for financial aid. You MUST carry a minimum of 4 semester hours of graduate level courses each term to receive aid.

Application Procedure

To apply for the Federal Pell, Federal Work Study, Federal Supplemental Educational Opportunity Grant, Michigan Tuition Grant, and Michigan Competitive Scholarship, Adult Part-Time Grant, or Federal Direct Stafford Student Loan, a student must:

1. Complete a Free Application for Federal Student Aid which is available from high schools, libraries, and the Madonna University Financial Aid Office, or online at www.fafsa.ed.gov.
2. Students whose applications are selected for verification may be required to provide additional supportive documentation (tax forms, social security benefit statements, etc.).
3. Students who are not U.S. Citizens or 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.
4. Applications should be submitted as early as possible each year. To ensure full consideration students are encouraged to apply as follows:

Fall Term: February 21st
Winter Term: August 7th
Spring/Summer Term: January 30th.

NOTE: Students need to apply once each academic year.

5. Procedures for students applying for Madonna University Scholarships and Endowment Scholarships:
 - Fulfill requirements for admission to Madonna University.
 - Complete Madonna University Scholarship Application by April 1.
 - Scholarship/Award winners will be notified by April 30.

Federal Aid Programs

1. **FEDERAL PELL GRANTS:** Undergraduate students from limited income families are entitled to up to \$4,050 per year in Federal Pell Grant aid on the basis of financial need. The grants can be renewed annually until the student completes an undergraduate degree.
2. **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.
3. **FEDERAL WORK STUDY:** The Federal Work Study Program encourages on-campus employment for undergraduate and graduate students who demonstrate financial need. These jobs are secured through the Career Services Office.
4. **FEDERAL STAFFORD STUDENT LOANS:**
SUBSIDIZED: Available to undergraduate and graduate students with financial need. The interest on the loan is paid by the government while the student is enrolled at least half-time.

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 dependency status and the year in school. Interest rates are variable and change annually, but will not exceed 8.25%.

5. **FEDERAL PLUS LOAN:** Available to creditworthy parents of dependent undergraduate students regardless of financial need. Parents may borrow up to the cost of education minus other financial aid awarded. Interest rates are variable and change annually but will not exceed 9%.

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.

Students are encouraged to consult "The Student Guide," available from the Financial Aid Office, for detailed information on all federal aid programs. "The Student Guide" can also be found on the Financial Aid web site.

Michigan Aid Programs

1. **MICHIGAN TUITION GRANTS:** The Tuition Grant Program provides grants up to \$2,000 per year to qualifying Michigan residents for tuition and fee expenses. This aid is granted to students whose financial aid application shows financial need.

Tuition Grants are provided to eligible full-time or half-time undergraduate students for up to the equivalent of 10 semesters of full-time study. Graduate students may receive the grants for up to 6 semesters (or equivalent).
2. **MICHIGAN COMPETITIVE SCHOLARSHIPS:** Michigan Competitive Scholarships of up to \$2,000 are awarded annually to college freshman (Michigan residents) whose scores on the American College Test (ACT) or Enhanced ACT qualify

them and whose financial aid applications indicate financial need. Undergraduate students may renew their scholarships for up to the equivalent of ten semesters by maintaining eligibility.

3. **MICHIGAN ADULT PART-TIME GRANTS:** Grants up to \$600 per year not to exceed two academic years are awarded to part-time students (3-11 s.h.) with demonstrated financial need.

Madonna University Aid Programs

To be eligible for University awards, general scholarships and endowed scholarships, students must be officially admitted, have a minimum 3.2 GPA (some scholarships have higher requirements), and be enrolled full-time (12 s.h.) unless otherwise noted. For transfer students, the GPA is determined at the time of admission. See Transfer Student information in the Admissions section of this bulletin.

NOTES: Scholarship and award recipients who receive state or federal assistance may have their awards reduced, so as to comply with state or federal award guidelines.

Music majors may be required to complete an audition in addition to standard award criteria. Fine Art / Graphic Design / Visual Arts Education majors may be required to submit a portfolio in addition to standard award criteria.

For additional information on these scholarships and awards, contact the Financial Aid Office.

TRUSTEES' SCHOLARSHIP: awarded by the Office of Undergraduate Admissions to outstanding First-Year students, this renewable scholarship (\$6,000 per year up to \$24,000) covers a large portion of tuition, fees, and related educational expenses up to a maximum of 32 semester hours per year.

PRESIDENTIAL SCHOLARSHIP: awarded by the Office of Undergraduate Admissions to outstanding First-Year students, this renewable scholarship (\$3,500 per year up to \$14,000) covers a portion of tuition, fees, and related educational expenses up to a maximum of 32 semester hours per year.

DEANS' SCHOLARSHIP: awarded by the Office of Undergraduate Admissions to outstanding First-Year students, this renewable scholarship (\$2,500 per year up to \$10,000) covers a portion of tuition, fees, and related educational expenses up to a maximum of 32 semester hours per year.

CATHOLIC STUDENT AWARD: awarded through the Office of Undergraduate Admissions to First-Year active Catholic students who wish to combine a strong quality education with additional Catholic leadership training. This renewable scholarship (\$1,250 first year) covers a portion of tuition, fees, and related educational expenses up to a maximum of 32 semester hours per year. This award can increase per year based on academic progress and involvement in Campus Ministry.

PERFORMING ART AND FINE ART SCHOLARSHIP: awarded through the Office of Undergraduate Admissions to outstanding music and art students with exceptional musical or artistic talent. This renewable scholarship (\$1,250-\$5,000 per year up to \$20,000) is competitive and awarded by audition or portfolio. Recipients must maintain a 3.0 GPA in music/art courses and make satisfactory academic progress toward their degrees. This scholarship covers a portion of tuition, fees, and related educational expenses up to a maximum of 32 semester hours per year.

PHI THETA KAPPA SCHOLARSHIP: awarded by the Office of Undergraduate Admissions to outstanding transfer students who are members of the Phi Theta Kappa Society with a GPA of 3.5 or higher, this renewable scholarship (\$2,000 per year up to \$4,000) covers a portion of tuition, fees, and related educational expenses.

TRANSFER STUDENT SCHOLARSHIP: awarded by the Office of Undergraduate Admissions to outstanding transfer students with a GPA of 3.2 or higher, this renewable scholarship (\$1,000 per year up to \$2,000) covers a portion of tuition, fees, and related educational expenses.

HONORARY SCHOLARSHIPS ESTABLISHED BY MADONNA UNIVERSITY

- Mother Mary **DeSales** Scholarship (1947): awarded to a graduate of Ladywood High School.
- **Felician-Franciscan** Scholarship (1982): awarded to a Felician Sister or Postulant recommended by the Director of Education of the Livonia Province. Preference will be given to a candidate who is enrolled full-time.
- Anton **Jakobs** Scholarship (1968): awarded to a community college graduate.
- Rudolf and Evelyn **Kleinert** Scholarship (1968): awarded to a community college graduate.
- Sister Mary Paulette **Krakowski**, CSSF, Scholarship (1993): awarded to a music major.
- Jack **Krasula** Athletic Scholarship (2000).
- Sister Mary Joela **Patelski**, CSSF, Scholarship (1984): awarded to a Catholic high school graduate.
- Msgr. 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

- Sister Mary Jacqueline **Anderson**, CSSF, Scholarship (1999): awarded to minority women for any English Department major. Established by Dr. Miriam Fabien, Sister Kathleen Marie Wlodarczak, CSSF, and Art and Anne Anderson.
- Bishop Moses B. **Anderson**, SSE, and Dr. Frank Hayden Scholarship (1989): awarded to African-American students of the Detroit Metropolitan area. Established by Bishop Moses B. Anderson, Auxiliary Bishop of the Archdiocese of Detroit.
- Frank E. and Bessie **Angileri** Quality Award Endowed Scholarship (1996): awarded to a student, full or part time, solely connected with the U.S. automotive industry, pursuing a Master's Degree in Quality and Operations Management in the Madonna University School of Business. To qualify for the award, an applicant must have contributed significantly to quality improvements in the U.S. automotive industry and/or related areas, and must maintain academic achievement of 3.25 or as determined by the University committee. Established by Frank E. and Bessie Angileri.
- **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 Science and Mathematics. 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.
- 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.
- Sister Mary Rachel **Bawol**, CSSF, Scholarship (1998). Established by Carol A. and Joseph P. Copland.
- 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, 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 non-traditional (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.
- 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.
- Florence and William **Cameron** Scholarship (1988). Established by Florence Cameron.

- John J. **Carlo** Scholarship (1987): awarded to a nursing major. Established by Louis E. Carlo.
- Venerable Solanus **Casey** Scholarship (1995): awarded to a part-time or full-time student in any graduate or undergraduate major in the College of Science and 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.
- **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.
- 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** Television and Video Communications Scholarship (1994): awarded to a sophomore level or higher student with Television and Video Communications major and must be currently enrolled in Television and Video Communications class(es). 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.
- 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.
- 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 education. Established by Dr. Alan E. Eichman.
- **Felician** Sisters Scholarship (1988): awarded to members of the Felician Community in the Presentation Province, either for candidates or professed sisters. Established by Msgr. Vincent J. Horkan.
- Cecily **Farragher** Scholarship (2003): awarded to students pursuing teacher education. Established by John and Susan McMeel.
- Emily and Raymond T. **Gapinski** Scholarship (1994). Established by Sr. Mary Janet, CSSF, and Emily and Raymond T. Gapinski.
- Sister Mary Humilitas **Gersztyn**, 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.
- Hilary L. and Beverly F. **Gross** Scholarship (2000): awarded to a student-candidate of the Felician Sisters of the Presentation of Blessed Virgin Mary Province and/or a Sister in initial formation: Postulant, Novice, or Sister in Temporary Vows, attending Madonna University. Established by Hilary L. and Beverly F. Gross.
- Sister Mary Lauriana, CSSF, Joseph, Sr., and Josephine **Gruszczynski** Family Scholarship (1977). Established by Joseph and Josephine Gruszczynski.
- 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.



- Dr. Julianne **Hoff** Memorial Scholarship (1998): awarded to a 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.
- 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 education or nursing. Established by Frances M. Kannberg.
- 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 a F-1 Visa. Established by Dr. Robert and Monika Kimball.
- Marge **Kleinert** Collins 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 developmentally disabled/mentally retarded, emotionally impaired, and learning disabled children. 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 **Krakowski**, 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 education 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.
- Rev. Zanos Gougoutas, Christopher, and Drs. George and Bess **Kypros** Family Scholarship (2002): awarded to students pursuing the Learning Disabilities master's program and to students pursuing Early Childhood Education master's 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** 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.
- J. 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.
- 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.
- **Madonna** University Alumni/ae Association Scholarship (1985): awarded to a son or daughter of a Madonna University graduate. Established by the Madonna University Alumni/ae Association.

- 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 Humanities, 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.
- **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.
- Leona D. **Miloch** Scholarship in Memory of Louis and Lillian Miloch (2005). Established by Leona D. Miloch.
- Sister Colleen **Morris**, SM, Scholarship (1980): awarded to a gerontology major. Established by Madonna University Gerontology Department.
- 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.
- Kathleen A. **Needham** Scholarship (2004): awarded to a student pursuing certificate or degree in gerontology. Established by Madonna University Department of Gerontology.
- Joseph and Andrea **Nodge** Family Scholarship (2001): awarded to a student in teacher education. Established by Joseph and Andrea Nodge.
- 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.
- Warren and Genevieve **Orlick** Scholarship (1992). Established by the Professional Golfer's Association of America-Michigan Section.
- Sister Mary Berarda **Osinski**, CSSF, Scholarship (1983): awarded to a child development 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). Established by Walter and Lillian Pachota.
- Alfred R. **Pawlak** Scholarship (2005): awarded to criminal justice students or Polish descendants. Established by Paul and Renee (Pawlak) Fershee.
- World Heritage Foundation-**Prechter** Fund Scholarship (1999). Established by the World Heritage Foundation-Prechter Fund, and Heinz and Waltraud Prechter.
- 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.
- **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.
- Leslie **Riggs** Scholarship (1978): awarded to a hearing impaired student.
- L. Peter and Eugenia **Riters** Scholarship (1997). Established by Eugenia Riters.
- 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.
- **Rozeck** Family Scholarship (1989): awarded to a student of Hispanic heritage. Established by Sister Mary Martinez Rozeck, CSSF, and the Rozeck Family.
- Sister Mary Bridget **Roznowski**, CSSF, Scholarship (1987): awarded to a family and consumer science major. Established by Sister Mary Bridget Roznowski, CSSF.
- **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.



- Mary and Thomas **Shields** Scholarship (1995): awarded to a student pursuing a degree in hospice education or nursing. Established by Donna Berry and Dennis and Ken Shields.
- Rev. Raymond S. **Skoney** Scholarship (1995). Established by Rev. Raymond S. Skoney.
- Marilee **Smith** Scholarship (1995): awarded to an LPN student in good standing in the nursing program. 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** (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., Pamela Witte, 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.
- 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.
- 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 Education 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 Education 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 a gerontology major. Established by Charles and Patricia Doemer.
- 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.
- Henry M. and Wanda (Zavislak) **Wojcik** Scholarship (2001): awarded to students in the nursing program, preferably in hospice education and pediatric nursing. Established by Henry M. Wojcik.
- Josephine Barski and Alexander **Wowk** Scholarship (1994): awarded to a student in nursing or hospice education. Established by Edmund Barski and Joan Wowk.
- John and Emily **Wysolmierski** Scholarship (1988). Established by Loraine Mierski.
- Rev. Francis J. **Zdrodowski** Scholarship (1993). Established by Rev. Francis J. Zdrodowski.
- Sister Mary Angelis, CSSF, and George and Caroline **Zgoda** Family Scholarship (1980). Established by Sister Mary Angelis Zgoda, CSSF.

ANNUAL FUNDED SCHOLARSHIPS:

- Frank E. and Bessie **Angileri** Quality Award (1996): awarded to a student, full or part time, solely connected with the U.S. automotive industry, pursuing a Master's Degree in Quality and Operations Management in the Madonna University School of Business. To qualify for the award, an applicant must have contributed significantly to quality improvements in the U.S. automotive industry and/or related areas and must maintain academic achievement of 3.25 or as determined by the University committee.
- Winifred Maybury **Berkery** Trust Scholarships (1979).
- The **Cold Heading** Foundation Scholarships (1986): awarded to qualified students. Established by Rene and Dr. Aline A. DeSeranno.
- Gladys **Collins** Hospice Scholarships (1989).
- **Community Foundation for Northeast Michigan** Scholarships (1983): awarded to students from Alpena County and neighboring counties in Northeast Michigan.
- Livonia Heart Fund/Sharon **Jahns** Scholarship (1984): awarded to a graduate of a Livonia high school or a Livonia resident and graduate of a private high school. Restricted to a student in a health-related field of study.
- **Livonia** Civic Chorus Scholarship in Memory of Sister Mary Francilene Van de Vyver, CSSE, (2003): awarded to a full or part-time student in music. Established by the Livonia Civic Chorus.
- **Livonia** Rotary Club Scholarship (1989).
- **Michigan Colleges Foundation** Scholarships funded by the following corporations and foundations: Alticor, Inc.; Arvin-Meritor, Inc.; Comerica Minority Scholarship; Consumers Energy; The DaimlerChrysler Corporation Fund; The DeRoy Testamentary Foundation; The Flink Ink Foundation; The Ford Motor Company Fund; The Frederick S. Upton Foundation; General Motors Hispanic Scholarship; Gordon Food Service; The JSJ Corporation; The Miller Foundation; National City Bank of Michigan/Illinois; The Samaritan Foundation; George and Mabel Slocum Foundation; Standard Federal Bank; The Stonisch Foundation; Theodore and Mina Bargman Foundation; The Lester C. Tiscornia Foundation; and The United Parcel Service (UPS).
- **TRiO** Student Scholarship (1997).
- **Wayne** County Medical Society Alliance Scholarship (1984): awarded to a student from Wayne County in the nursing program.

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. Tuition is charged at one-half the regular rate. Applies to tuition ONLY. Details available from the Financial Aid Office.

Supplemental Assistance Programs

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

1. **VETERANS' EDUCATIONAL BENEFITS**: The Department of Veterans Affairs administers a number of education programs for veterans, servicepersons, and eligible dependents. Contact the Financial Aid Office or the Department of Veterans' Affairs for more information.
2. **VOCATIONAL REHABILITATION EDUCATION BENEFITS**: Vocational Rehabilitation Education Benefits are for students with physical or mental disabilities which result in substantial handicaps due to employment. Contact local VRS Office for additional information.
3. **EMPLOYEE TUITION REIMBURSEMENT PROGRAM**: Many employers will pay tuition for their employees who successfully complete coursework at Madonna University. For more details check with the Personnel 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.

The Financial Aid Office is open Monday and Thursday from 8:00 a.m. to 7:00 p.m. and Tuesday, Wednesday, and Friday from 8:00 a.m. to 5:00 p.m.

Students should consult the Madonna University Student Financial Aid Handbook for detailed information on all University aid programs. Particular attention should be paid to application deadlines and to award and packaging priorities.



Student Services

MADONNA 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 progress and excel, including veterans and older adults returning to college and underprepared/provisionally admitted students.*

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

Academic Advising

The Office of Academic Advising is available to assist students with questions related to the advising process. Students may access the office by: 1) e-mail at advising@madonna.edu; 2) in person with or without an appointment (though appointments ensure personal attention); or 3) visiting the website, www.madonna.edu: under Quick Links select Academic Advising.

Students with many or few interests and who are unsure of which major(s) to declare are encouraged to seek academic advice through the Office of Academic Advising. Students with declared majors are assigned to faculty advisors. Students' admission letters list the advisors to whom the students are assigned. All students are encouraged to make an appointment with their assigned advisors each semester.

In addition to the 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 **Counseling**, on the next page.

Athletics

Madonna University has sponsored intercollegiate athletics since 1987. The school is a member of the National Association of Intercollegiate Athletics (NAIA) and participates in the Wolverine-Hoosier Athletic Conference (WHAC).

Women's volleyball was the first NAIA sponsored sport at the university. Since then Madonna has added men's and women's soccer, men's and women's basketball, baseball (men), softball women, men's and women's golf, and men's and women's cross-country.

While having a brief history, the Crusaders have had many championships. Softball, women's basketball, and women's soccer have each advanced as far as the NAIA National Championship tournament at least once, with volleyball making seven appearances.

Madonna athletics facilities include the Activities Center of the Livonia Administration Building, where basketball and volleyball are played, as well as Ilitch Ballpark (baseball) and Madonna University Field (softball). In addition, the golf teams use Whispering Willows golf course and cross-country calls Cass Benton Park home.

Madonna athletics also boasts a strong academic history. Annually multiple 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 www3.madonna.edu/crusaders.

Campus Ministry

Campus Ministry at Madonna University is an important religious ministry dedicated to the service of individuals 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 the Ministry are: weekday celebrations of the Eucharist, at both Livonia and Orchard Lake; a weekly holy hour; Reconciliation services; prayer group meetings; lectures on current issues; annual student retreats; and opportunities to serve in soup kitchens, give assistance to people in need, and participate in alternative spring break trips to South Carolina, Chicago, Mexico, and other areas.

The University Chapel is located on the ground floor of the University Center in Livonia. A prayer room, room 1211 in the academic building, is also available for students to spend time in quiet reflection. In Orchard Lake, the Chapel of Our Lady of Orchard Lake is located at the northeast end of the campus and another chapel is located in the seminary building, just south of Marian Hall.

Career Services

Career Services, in room 1001 on the lower level of the administration wing, provides career development activities, employment services, and career counseling to students and alumni of the University. The office assists students seeking Cooperative Education experience in their field of study and those seeking on-campus or off-campus student employment; provides job fair information and employment referral for seniors and alumni; and gives assistance with career decision making. Many students and alumni utilize DISCOVER, a computer-based career exploration program, to assist them in career exploration and decision making. Students needing more assistance may schedule an appointment for career counseling.

The Career Services website is updated regularly with current job announcements, job fair information, scheduled activities, and links to employment sites. The website also features, "What Can I Do With A Major In...", providing career information on several of the majors available at the University. The Career Services website is open to all students, alumni, and community members.

Workshops are presented in the fall and winter terms covering resume writing and interviewing. Walk-in resume critiquing is available, as well as more involved resume and job search advising by appointment.

Center for International Studies

The Center for International Studies (CIS) was established in 1991. The director and staff maintain the center as a clearinghouse for all international programs. The focus of the Center is to promote and facilitate a wide range of study and travel abroad opportunities for both students and faculty, as well as to assist in the recruitment of and services for students coming from abroad.



Madonna University has agreements with a number of institutions around the world. These agreements allow Madonna students and faculty to pursue studies overseas and international students from those universities to pursue studies at Madonna University.

In many cases, credit can be given for various types and durations of overseas study. Some projects can be, and indeed have been, supported by grants and scholarships (such as the FATE fund). Students may opt to go on individual arrangements to other countries, for credit or not, with previous approval from their advisors.

In addition, the Center offers, through selected departmental courses of the University, a Certificate of Achievement in International Studies designed so that all students, regardless of major, can add it to their credentials without adding appreciably to the number of courses required for graduation. See the Plans of Study section of this Bulletin.

Center for Personalized Instruction

The Center for Personalized Instruction (CPI) assists students underprepared in one or several areas of study and those experiencing academic difficulty. Tutors are available in specific subject areas as well as in basic reading, writing, mathematics, chemistry, and computer skills. Supplemental Instruction, a series of informal weekly study sessions, is also offered for selected mathematics and science courses identified in the Schedule of Classes.

Students may be admitted by self-referral or by referral of an instructor. In addition to tutorials, the CPI has an abundance of resources (books, videos, CDs, and computer programs) available to all Madonna students for the purposes of independent study.

Madonna's TRiO program is housed in the CPI. This is a federally funded program that provides, free of charge, tutorial assistance, basic skills testing, and advising to low income/first generation/disabled students. As students apply for tutoring, the director determines their eligibility for Madonna's TRiO program.

Counseling

Individual counseling is available for educational, career, social, or personal concerns. Students whose academic performance is being disturbed by personal problems due to stress may contact the Vice President for Student Services or a member of the Campus Ministry team for assistance. A brochure of available counseling services is updated each term and available in the Office of Student Life, Room 1001. The Psychological Services Clinic is available to students, who can schedule appointments by calling (734) 432-5493. Referrals to community professionals are made in cases where problem resolution is beyond the realm of University resources.

Cultural Affairs

An essential dimension of a liberal arts education is the opportunity for artistic expression and appreciation. Madonna University offers various programs in the fine and performing arts for student participation.

In the fall and spring there are student fine art and photography exhibits. Music recitals and the Madonna University Chorale, open to all students and community members, offer opportunities for performing arts expression. Students seeking off campus cultural activities will find many opportunities in the greater Detroit-Ann Arbor metropolitan areas.

Disabled Student Services

Established in 1976, the Office of Disability Resources (ODR) at Madonna University creates an accessible, positive learning environment for all students.

The ODR assists students with disabilities as they fully participate in their university experience without confronting architectural, communication, or attitudinal barriers.

Madonna University's successful integrated learning environment results from mutual cooperation and support of the faculty, staff, and administration.

Students with a documented disability are eligible for support services to assist them in their educational progress. The ODR support team includes:

- Experienced advisors, who counsel students in their assimilation to college life;
- A Notetaker Coordinator, who manages notetakers and facilitates a positive working relationship among student, notetaker, and instructor;
- An Interpreter Coordinator, who manages and schedules interpreting services and supervises interpreters.

The ODR team works closely together to continually provide an accessible learning environment through services such as:

- sign language interpreting
- oral interpreting
- in-class notetaking
- student/instructor liaison
- counseling (career and personal)
- academic advising
- alternative testing
- reading and transcribing
- computer with voice synthesizer, enlarged text, CD creation from text, and braille printing capabilities
- tutoring referrals.

While students are ultimately responsible for their own progress, ODR services ensure students access to university life.

Food Service

In Livonia, the campus cafeteria is in the upper level of the University Center adjacent to the Residence Hall. At Orchard Lake, the cafeteria is just north of the main chapel. The Cafeteria is open to the entire Madonna Community: students in residence and commuters, faculty, staff, and guests to the University. Non-residents have wide selections of meal purchase options including Meal Cards that offer five meals at substantial savings over individual meal rates. Residents must elect one of two meal plans, opting for 20 or 15 meals per week (the plan is effective for the full 15 week term). No refunds are available on the board fee (a result of contractual agreements between the University and Sodexo Campus

Services) or at Orchard Lake, AVI Food Service. Occasional/ weekend absences are likewise non-refundable.

In complement to the cafeteria at the Livonia campus, Sodexo also provides the Crossroads Cafe, located in the Take 5 Lounge. Crossroads is open only when classes are in session in the Fall and Winter Terms. Because of attendance fluctuations, Crossroads hours are subject to change near major holidays or at the start or end of each term. Advance posting of any changes is provided.

Health Services

Health services are available at St. Mary Mercy Hospital, which is adjacent to the University at Five Mile and Levan Roads. Students are responsible for all medical bills incurred because of sickness or injury on or off campus. Students may apply at the Office of Student Life during September or January for medical insurance through Madonna University.

Instruction Center

The Instruction Center, designed to serve laboratory and practice needs of students in the Nursing program, is comprised of the Helene Fuld Computer Assisted Instruction Center and the Ray A. and Jean S. Shapero Nursing Instruction Center, and is located in the Angelo DiPonio Building. The Instruction Center consists of an auto-tutorial area equipped with computers, interactive videos, and practice lab. The lab provides clinical equipment for student practice or faculty-planned simulations. The practice lab maintains evening hours for the convenience of students and faculty.

International Students Office

The International Students Office (ISO, Room 1207) strives to provide quality services to international students, including information on international admission requirements and F-1 student status, orientation, advising and counseling, and coordination of extracurricular and cultural exchange activities, such as American host family visits and English conversation partners. International students are always welcome to contact the ISO to seek assistance.

Library Services

Madonna Library has a print collection of 110,000 books as well as extensive non-print, periodical, and electronic resources. The MAC catalog is our digital record of library holdings. MAC, the electronic database collection (partial full-text), and full-text e-book and e-journal collections are available to students, faculty, and staff both on and off-campus. Madonna librarians provide assistance at the reference desk, by phone or e-mail (at www.madonna.edu select *Library*, then *Ask a Librarian*), or by appointment in private research consultations.

Additional library services include comfortable study areas and conference rooms suitable for group work, an audiovisual room, and card-operated printers, copy machines, and microform reader-printers. The library also houses the University Archives.

When withdrawing books, students are asked to show a valid, current Madonna University ID card.

The University library is open daily. Regular library hours are:

Monday - Thursday	 8:00 a.m.-10:30 p.m.
Friday	 8:00 a.m.-7:00 p.m.
Saturday	 9:00 a.m.-5:30 p.m.
Sunday	 1:00 p.m.-5:00 p.m.

Spring and summer semester, intercession, and holiday hours vary. They are posted in advance at the library and on our library Web page.

The Office of Multicultural Affairs

The Office of Multicultural Affairs provides a variety of support services for students, staff, and faculty. Its primary purpose is to foster an appreciation of diversity within our society, University, and the general community, in addition to advocating for the special needs of students of color. It is OMA's belief that a true appreciation of multiculturalism and diversity benefits society, students, and University personnel. Thus, all activities are open to all members of the University. In addition, community members are often invited to OMA activities. The OMA works closely with other University departments and offices in promoting and providing activities.

Activities are essentially in two categories: 1) efforts aimed at retention of students and 2) multicultural/diversity awareness activities. Retention efforts include, but are not limited to, special skills workshops, as in research, student leadership, scholarship research, etc. Related activities, such as multicultural forums, faculty round-table discussion groups, cultural activities, and faculty and staff training, round out the OMA's programming.

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 coordinators 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 community service. Students interested in the environment may join Project Earth or the Madonna University Trailblazers. Student concerns regarding peace and justice are translated in Student Service Learning with the students' active involvement with: Focus Hope, Habitat for Humanity, Right to Life, Gleaners, Christmas for Kids, Campus Ministry, service at soup kitchens, or alternative break service trips and other volunteer opportunities in the community. These activities are reflective of the Franciscan values promoted at Madonna University.

Membership in the various organizations offer the students an opportunity to clarify values and to enhance community leadership and team building skills outside the classroom.

Admissions Ambassadors (ADAM)
Criminal Justice Association
Gerontology Association
Madonna Early Childhood Club
Madonna University Broadcast Club
Madonna University Council of Catholic Nurses
Madonna University Nursing Student Association (MUNSA)
Marketing Club
Music Club
Nutrition Network
Paralegal Studies Student Club
Project Earth (Environmental Organization)
Psychology Club
Residence Hall Council
Social Work Association
Society of Future Teachers (SFT)
Single Parents of Kids Everywhere (SPOKE)
Student Government Association

Student Government Association (SGA)

Madonna University students are represented by the Madonna Student Government Association. This association is composed of student representatives from the various organizations and students-at-large. The purpose of the association is to foster cooperation and understanding in the college community. The association also provides a medium of expression for student concerns and interests.

The Madonna University Student Government Association coordinates the activities and functions of the various organizations. Community projects and social and special events are approved by the Madonna University Student Government Association.

Student Representation, University Committees

Students are invited to serve on the following committees of the faculty and the Board of Trustees:

Faculty Standing Committees
Curriculum and Educational Policy
Graduate Studies
Information Technology Committee
Library
Teacher Education

Trustee Standing Committees
Academic Administration
Advancement and Public Relations
Planning and Mission Effectiveness
Student Services

Institutional Standing Committees
Bookstore Advisory
Campus Ministry
Student Services

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:

National Catholic Honor Society: Kappa Gamma Pi
Business Honor Society: Delta Mu Delta
Education Honor Society: Kappa Delta Pi
Gerontology Honor Society: Sigma Phi Omega
History Honor Society: Phi Alpha Theta
Nursing Honor Society: Sigma Theta Tau
Paralegal Honor Society: Lambda Epsilon Chi
Psychology Honor Society: Psi Chi
Science and Mathematics Honor Society: Sigma Zeta
Social Work Honor Society: Phi Alpha



Technology Services

Madonna University places a high priority on information technology. Most labs and classrooms are equipped with DVD, video, and computer projection, and the Internet can be accessed from all computers on campus. Wi-Fi (wireless access) is also available in designated areas throughout campus. The **Ford Technology Wing** on the Livonia campus provides the latest in computer technology and training for educational and programming needs. A generous gift from the Ford Motor Company was combined with University funds to establish this wing, which includes the **Technology Learning Center**, the **Faculty Professional Development Center**, the **IT Help Desk**, **Web Services**, **Network Services**, staff offices, and a computer classroom.

The Center's four computer labs provide access to networked systems, including PCs, Mac's, multimedia equipment, scanners, and laser printers, all of which are available for students, faculty, and staff. The labs accommodate walk-in students, scheduled classes, and testing services. Many software programs are available on all computers, such as the Microsoft Office Suite, which includes Word, Excel, PowerPoint, and Access. Image and video editing software, such as Adobe Photoshop, Adobe Illustrator, Adobe Premier, and Apple Final Cut Pro, is available on many lab computers.

During the fall and winter semesters the labs are open Monday through Sunday. A friendly support staff is available to help with most computer problems. The free workshop "How to Thrive in an Online Course" is offered every term for students in online courses. In addition, the **IT Help Desk** provides one point of contact for technology assistance for Madonna University faculty, staff, and students. Phone (734) 432-5800 or send an e-mail helpdesk@madonna.edu for technology assistance.

Through the Madonna University website www.madonna.edu, students can access information and online services such as online registration, student billing, grades, and **Blackboard** learning management software. Other facilities and services include student email, a TV Studio, editing, streaming media, satellite videoconferences, audio conferencing, web-based conference, podcasting, campus video network, and an interactive television classroom where courses are offered through two-way video to off-campus sites.

Madonna Magazine, a regionally syndicated public service television program, is produced and crewed by television and video communications students and watched by 40,000 people in metro Detroit and throughout Michigan. Also, you can tune into *Madonna University Radio on the Internet* at www.Live365.com/stations/madonnauniversity2, where students in the radio classes broadcast their favorite music and special events.

University Center/Residence Hall

Madonna University maintains separate residence halls for male and female students in Livonia. Room and board are provided as part of the residence contract. Admitted students apply for residence through the Director of Residence. A Residence Handbook is available for students and explains policies for life in the residence hall.

Orchard Lake Center

An array of student services and campus ministry activities are also offered at the Orchard Lake Center. Call the Coordinator of Orchard Lake Center Student Services at (248) 683-9709 for more information.

University Policies

Academic Advising and Counseling

Admitted students with declared majors are assigned academic faculty advisors who assist them in developing plans of study to meet their graduation requirements. Admitted students with no declared majors are assigned temporarily to an advisor in the Office of Student Services or Academic Advising until a major is declared.

Students with many or few interests and who are unsure of which major(s) to declare are encouraged to seek academic advice through the Office of Academic Advising, in person, by phone, e-mail (advising@madonna.edu), or the Madonna University Advising web page.

Students are required to meet with their assigned academic advisor(s) early in the first term at Madonna University to discuss academic and career plans. Students must also meet with their advisor(s) prior to each registration period to have the program for the coming term approved. The University assumes no responsibility for a student's program if the student is self-advised. Students who have developed an official Plan of Study in consultation with their major advisor are not required to meet with the advisor on a term-by-term basis, but are urged to meet periodically with him/her to update the Plan of Study, and to discuss academic progress and future plans.

University Bulletin Requirements

Students must meet the requirements of the University Bulletin in effect at the term for which they are formally admitted or readmitted (termed the "Bulletin of Record"). In the event that students change their major or program during their course of study, the students are expected to meet the requirements for that major or program from the University Bulletin in effect at the date of the change. The General Education requirements, however, may be in compliance with the University Bulletin in force at the time of admission or readmission.

Student Load and Class Status

The normal credit hour load per semester is fourteen; maximum load without special permission from the Vice President for Student Services is eighteen, exclusive of choral and physical education activities. A minimum of twelve credit hours is required for certification as a full-time undergraduate student.

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.

Level of Instruction

Courses with numbers from 1000-2990 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 Bulletin.

Students must observe prerequisites set by the University and/or by 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 for which there is insufficient registration.

Registration and Withdrawal

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

For workshops and institutes, students may register any time prior to the first session. Necessary changes in registration, including withdrawal from a course in writing, are made through the Registrar's Office. A student who does not withdraw officially, in writing, from a course receives a failing grade for the course.

Attendance

Class attendance is required of all students. Repeated absences may result in lowering of grade or loss of credit. The University places the responsibility for attendance upon the student.

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

Prolonged absences should be reported to the Vice President for Student Services.

Scholastic Integrity

All written work and computer work is presumed to be the effort of the individual student.

Scholastic dishonesty will be penalized in accordance with the gravity of the situation. (See Style Manual for particulars.)

Cheating on examinations results in automatic failure in the course. A student so accused has the right of appeal to the Student Appeal Board (see Student Grievance Procedure).

Violating library rules regarding unauthorized removal or damaging of books, magazines, or periodicals is also violation of integrity.

Research Integrity

In keeping with its mission to instill in its students Christian humanistic values, Madonna University values and promotes respect for the individual in the application of ethical considerations to the 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.

Courses Satisfying More Than One Requirement

A course may simultaneously satisfy (a) a requirement for a degree major or minor, (b) a Required Support Course requirement of other major(s) or minor(s), (c) any Certificate of Completion or Certificate of Achievement requirement, and (d) one General Education 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 different course with the advisor's approval. This substitution must be documented in the Registrar's Office by using the Substitution of Course form.

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

Interpretation of Grades

Effective Fall Term 1991, Madonna University adopted a plus/minus grading scale which includes the following grades: A, A-, B+, B, B-, C+, C, D, and F. Specific accommodations to the plus/minus grading scale (i.e., 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 judgment;
- 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 to 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 judgment;
- 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 gives 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 balanced by superior work in other courses. D grades are not acceptable for major courses. A D grade implies that the student:

- a. usually does the minimum requirements and merely grasps the basic material 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.**

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

Except for specifically designated S courses open to all students, only juniors or seniors may elect in each semester one course for which the usual academic credit may be granted with a grade of S. The S grade is not factored into the GPA. The policies governing such markings are:

- a. The option for S marking may not be given in courses for the major, minor, 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 Registrar's Office 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 Registrar's Office.
- d. Only grades of C and above will be converted to S. A grade of D or F will remain as such and will be included in the grade point average.
- e. S grades cannot be converted to letter grades at a later date.
- f. Students taking CLEP examinations must decide whether they will take the course for an A, B, C, D, F grade or for an "S/F" grade. If they choose to take an "S/F" grade, they will fill out, sign, and turn in (to the CLEP Administrator) the Request for an "S" Grade form prior to the taking of the examination. 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 as graded 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 Registrar's Office before the deadline date specified each term in the schedule of classes. Failure to officially withdraw from a course will be recorded as F, a failing grade, and computed in the grade point average.

Y – Carry-Over

For courses taught over two terms with grade awarded in second term. *Used only for graduate-level courses.*

AUD – Audit

Audit status must be approved both by the student's advisor and the course instructor. Audit status must be selected at the time of registration. Auditors must adhere to the attendance policy of the course; failure to meet the attendance requirements will result in the recording of a W on the transcript.

I – Incomplete

It is a student's responsibility to initiate the request for a grade of "I," Incomplete, from the course professor. This grade is only appropriate at the end of the term 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 approved or denied at the discretion of the professor.

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 completing an "I" grade may be extended at the discretion of the professor. The deadline for each semester is published in the Schedule of Classes.

Policies Related to Low Course Grades:

1. Only a grade of C or better is applicable toward a major/minor, a professional program, or required supportive courses.
2. Students receiving a grade of D or F in a major, minor, professional program, or a required support course taken at Madonna University must repeat that course at Madonna University. A comparable course taken at another institution will not be transferred in.
3. Students receiving a grade of D or F may be permitted to repeat the course once; twice, if approved by the instructor and department. Repeated courses must be taken at Madonna University and cannot be transferred in. 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.
4. The University reserves the right to request students to withdraw from a program due to unsatisfactory performance in the theoretical and/or practical phases of that program or because of inappropriate behavior.

How to Calculate Grade Point Average (GPA)

To compute a Grade Point Average (GPA) for one term: multiply the number of points representing the grade (A, B, C, D, or F) for each course times the number of semester hours for the course; add the grade points earned for the term; divide the total points by the number of semester hours attempted that term (excluding "S" grades and their semester hours). The result will be the term GPA. For example:

Course	Credits	Grade	Point Value	Calculation	Grade Points
ENG 101	3 s.h.	B+	3.33	$3 \times 3.33 =$	9.99
SOC 101	4 s.h.	C	2.00	$4 \times 2.00 =$	8.00
RST 133	3 s.h.	A-	3.66	$3 \times 3.66 =$	10.98
UNV 101	1 s.h.	F	0.00	$1 \times 0.00 =$	0.00
BIO 101	<u>4 s.h.</u>	D	1.00	$4 \times 1.00 =$	<u>4.00</u>
	15 s.h.				32.97

The term GPA in this example is the total grade points (32.97) divided by the total semester hours (15), i.e., 2.19 term GPA.

The career GPA is calculated the same way including all terms, course grades, and credit hours attempted at Madonna University.

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.

Examinations, Grade Reports, and Transcripts

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

A report of the final grade in each course and the student's grade point average for the term is available online.

Transcripts are issued within 3 business days after a signed request is received. Transcripts for completed course work will be mailed after all grades have been posted, usually within two weeks of the end of the term. Requests for transcripts require a fee. (See Tuition and Fees section.)

Declaration/Change of Major or Minor

Students wishing to declare, change, or delete a major and/or minor do so after consultation with their assigned advisor and an advisor in the discipline which they wish to declare. The Declaration/Change of Major form must be filled out, signed by the appropriate advisor(s) and submitted to the Office of Academic Advising Services. Students changing their major/minor are to meet the requirements for that major/minor in the University Bulletin in effect at the time of change. The General Education requirements, however, may be in compliance with the University Bulletin in force at the time of admission. Specific departmental requirements must be met before requesting a change of major into one of the following programs: Dietetics, Paralegal Studies, Nursing, and Social Work

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 their term, 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 coursework beyond the first degree.

Good Standing

Students who maintain a term and cumulative grade point average (GPA) of 2.0 or higher and make satisfactory academic progress, as described below, are considered to be in good standing.

Satisfactory Academic Progress, Probation, Termination

Satisfactory Academic Progress is determined by three factors:

1. minimum 2.0 term grade point average;
2. minimum 2.0 cumulative grade point average; and
3. rate of course completion based on enrollment status, according to the following table:

ENROLLMENT STATUS		MINIMUM COURSE COMPLETION
Full-Time	24+ s.h./a.y.* 12+ s.h./term	20 s.h./a.y.
3/4-Time	18+ s.h./a.y. 9-11 s.h./term	13 s.h./a.y.
Half-Time	12+ s.h./a.y. 6-8 s.h./term	10 s.h./a.y.
Less Than Half-Time	Less than 6 s.h./term	one course per term

* Key: s.h./a.y. = semester hours per academic year.

A formula will be applied to determine the completion factor for students whose enrollment status (full-time or part-time) changes from one term to the next.

NOTE: Names of individuals receiving Veterans' Benefits who fail to make satisfactory progress are submitted to the Department of Veterans Affairs.

Probation

Failure to achieve a 2.0 term GPA and/or cumulative GPA will cause a student to be placed on probation. This status is recorded on a student's transcript.

Termination

Students on probation for two consecutive terms are automatically terminated. An exception to this rule occurs when a student achieves at least a 2.0 term GPA, even though the career GPA is below 2.0. Such a student is considered to be making progress, but is still on probation.

Reinstatement After Termination

A student who has been terminated for failure to make satisfactory progress and who wishes to appeal the termination shall appeal to the Vice President for Student Services within seven days after notification of termination. The appeal is reviewed by the Vice-President for Student Services the first time a student is terminated. A second termination appeal is reviewed by the student's advisor(s) and the Vice President for Student Services. If a student is terminated a third time, the appeal is reviewed by a committee consisting of the advisor(s), two representatives from the Retention Committee, and the Vice President for Student Services. Reinstatement of a student terminated from the University is considered when the student gives evidence of improved circumstances that will ensure successful performance in the next term of enrollment. A student is reinstated to continue in the University, not necessarily in a particular major.

Readmission After Termination

A person who has been terminated and is seeking readmission is required to follow the normal admissions process (including application fee) and to provide documentation of activities during the dismissal period which supports the individual's readiness to resume an academic career at Madonna University. This process must be completed well in advance of the beginning of the term for which readmission is desired and no later than January 1, May 8, or September 1, for admission to the following term.

Student Grievance Procedure and Appeal Board

The Student Grievance Procedure provides a method for setting student grievances which result from misinterpretations in areas related to the Madonna University Bulletin and/or departmental policies and/or a grade received in class. The grievance procedure must be initiated within 15 days following the grievant's knowledge of the complaint. Students appealing termination or dismissal for academic reasons have seven days from the date of notification to appeal. See the Student Handbook for complete student appeal procedures. The Student Handbook is available in the Office of Student Services or at www.madonna.edu (click on Student Services).

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 college courses. Prior learning credit can be applied toward a major, minor, or other required or elective course.

Any formally-admitted student may apply for prior learning credit. The credit will be transcribed after the student has completed 12 semester hours of course work at Madonna University.

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). (Note that 30 of the minimum of 120 credits for graduation must be residential credits. Prior learning credits cannot be used to satisfy the 30 semester hours of residential credits for **first and/or second baccalaureate degrees**.)

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 for 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, exam, 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 is different from what everyone gains through life, or from that acquired before entering college.
- **Independent from Credits Previously Earned:** 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 indepth evaluations 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 28 of the examinations of the College Level Examination Program (CLEP), for the completion of certain non-collegiate programs (such as that of the Specs Howard School of Broadcast Arts or the Michigan Fire Fighters Training Council and certain allied health training programs), or for learning indicated by holding certain licenses and certificates (as the Registered Nurse and other allied health personnel).

College Level Examination Program (CLEP) 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. A score of 50 represents mastery within each discipline.

A student can procure the CLEP registration form (to take the examination) and the roster of examinations accepted by Madonna University from the Academic Advising Office, Room 1111, or from the Manager of the Technology Learning Center, Room 1104. A student can register for the CLEP Computer Based examinations through the Manager of the Technology Learning Center, Room 1104, telephone (734) 432-5323.

When registering for CLEP 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 general education goals, the S grade is always acceptable. If the credit is to be used toward the requirements of a major or minor, 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 either the College of Nursing and Health, Room 101 DiPonio Building, or the Health Sciences Office, College of Science and Mathematics, Room 1400, for information on prior learning credit available and the programs it may apply to. Holders of licenses or certificates in any other **allied health field** should see the Health Sciences advisor, College of Science and Mathematics, Room 1400.

Graduates of programs listed under **Contractual Agreements** on page 22, or persons who earned credit during **military service** that is posted with their discharge papers, should see the Coordinator of the Office of Prior Learning to discuss the credit evaluation.

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 Coordinator of the Office of Prior Learning when CLEP scores are received or on referral from a department advisor. Registration is during regular registration periods, with the payment of a transcription fee.

Individual Course Evaluations

For evaluation of prior learning applicable to the courses **CIS 2250**, Computer Fundamentals, or **CIS 2380**, Introduction to Computers, the student should see the secretary in the School of Business, Room 101 Maertens Building. For evaluation of prior learning applicable to **all other Madonna courses**, the student should see the Coordinator of the Office of Prior Learning to begin the process, which also 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 Office of Prior Learning, the Office of Academic Advising Services, or the Student Accounts Office. Registration for credit is at regular registration periods. Reduced tuition is charged for Prior Learning Credit.

Cooperative Education (Co-op)

Students are encouraged to incorporate into their degree plans academically related work experience of sufficient duration, a minimum of two terms. Course numbers for cooperative education are 1910, 1920, 2910, 2920, 3910, 3920, 4910, and 4920.

The cooperative education program offers the following work and study schedules:

- Alternating: semester of full-time co-oping (40 hours per week) followed by a semester of coursework on campus.
- Parallel: full or part-time co-oping and on-campus coursework pursued daily or weekly during the same semester.

Eligibility criteria for students interested in cooperative education:

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 co-op credit will be earned.
4. Full intent to complete a minimum of two co-op terms and a degree program at Madonna University.
5. Employable in the terms of the employer as defined by the job requirements.

A student may apply for cooperative education by obtaining an application form from the Career Services Office and making an appointment with a co-op coordinator.

Application for cooperative education studies should be completed by June 1st for Fall Term, October 1st for Winter Term, and February 1st for Spring/Summer Term.

Catholic College Consortium

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

Undergraduate students in good standing may take one or more courses at other consortium institutions at no additional tuition cost, subject to the following conditions.

1. Full-time students who wish to take consortium courses in a given term must be registered for a minimum of twelve (12) credit hours, at least eight (8) of which are to be taken at the home institution; students must pay at least the minimum full-time tuition at the home institution (Madonna University).
2. Part-time students who wish to take consortium courses in a given term must be registered for a minimum of six (6) credit hours, at least three (3) of which are to be taken at the home institution (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 the home institution; consortium authorization form(s) must be completed by the student and signed by the Registrar. The signature of the home school registrar constitutes assurance to the student that the credits taken at the host school will be accepted by the home school on the same basis as course work completed at the home school.

(more)

5. Tuition is paid to the home institution. Special laboratory and/or studio fees are paid directly to the host school.
6. Students must follow all registration procedures at both home and host institutions. 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 schools rests with the 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.

Dual Admission/Matriculation

Dual admission/matriculation is defined as simultaneous matriculation at Madonna University and one or 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 general education courses and often entail dual admission.

Therefore, only those admitted students who are in Madonna University 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 toward certificate or degree requirements at Madonna University.

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 Academic Advising, Admissions, or Student Life will review 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, B, C, 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.

Application for Graduation

Students who plan to earn bachelor degrees, associate degrees, or certificates must file the appropriate form with Office of the Registrar according to the dates published each term in the class schedule. Failure to meet the deadline date may result in graduation being postponed until the following term. Students pay a fee when filing an application.

A non-refundable graduation fee is charged each student who applies for graduation. It is assessed for each degree. The application is valid for one year from the term for which the student is

applying. Students may postpone their graduation date for three consecutive terms.

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

See the University Calendar (page 4) and the published schedule of classes for each term for deadline dates. Students may file late only within 30 calendar days of the due date with the approval of the Registrar's Office. An additional fee is assessed. No applications for graduation are accepted 30 days after due date.

Graduation

Students may graduate at the end of each term upon completion of degree requirements. A minimum 2.0 final term 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.

Diplomas

Diplomas for May, July, and December graduates are mailed to the graduates approximately 10 weeks after each graduation date.

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 regard 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 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 institutions; 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 to 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.
3. There is an unresolved disciplinary action against the student.
4. The education record requested is an exam 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 the 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, or conditions of the financial aid, or to enforce the terms and conditions 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 the 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 Registrar's Office.

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 redisclosed, 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 reasons 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 in 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.

STUDENT SERVICES POLICIES

Students are responsible for knowledge of any authorized changes in policy, regulations, and procedures that may be implemented during the academic year. These will be noted in the letter from the Vice President for Student Services sent out in August and December.

Address Change

It is the responsibility of the student to inform the University of any address change by completing a change of address form in the Registrar's Office. Mail returned to the University because of an address change will not defer the assessment of program adjustment and late penalty charges.

Dress Code

When on campus, students are expected to exercise good judgment 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 Office of University Advancement.

ID Cards

University student identification cards are issued by the Office of Student Life (Room 1001) at the time of the first registration. The ID card can be replaced for \$5.00. The ID card should be carried at all times; it is used whenever identification is necessary, and must be presented when requested by a University staff member or security guard. ID cards are to be updated each term at the Office of Student Life or at the Office of the Registrar.

Madonna University Alumni Association (MUAA)

All graduates are considered members of the Madonna University Alumni Association. The Alumni Office provides opportunities for graduates and current students to grow their relationship with the University and participate in a broad variety of social and fundraising activities. On and off-campus activities include recruitment assistance, student mentoring, phonathon programs, special events, travel, and more. Visit www.alumni.madonna.edu or phone (734) 432-5811 for more information.

Name Change

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

Parking Regulations

Students may use all the parking lots, except where restrictions are posted for reserved parking for the disabled or for designated purposes. There is no parking on the grass or anywhere on 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 repair.

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 Registrar's Office. A copy of your social security card is required before the form can be processed.

Student Orientation

Traditional age (17-24 years old) students who have not previously attended another college, or have fewer than 12 semester hours of college credit, are required to attend a student orientation.



Section II:

Learning Goals

General Education

Plans of Study

ACADEMIC LEARNING GOALS

LIBERAL ARTS EDUCATION is an education for life, designed to expand the student's understanding of significant ideas and issues relevant to culture and the complexity of the modern world. Madonna University provides students with career preparation within a liberal arts framework consistent with the mission statement of the University. To this end, the University requires all students to complete a program of study which includes a general education core as well as a major program area.

The Madonna University program of study requirements evolve from statements of eight Academic Goals and Competencies that together characterize the liberally educated person. These eight competencies provide a rationale for the courses that are required to fulfill the general education and program major goals.

General Education Core (Goals 1-6)

Goal 1 - Communication

Develop effective communication skills.

- 1.1 Demonstrate the ability to write clear, effective English prose.
- 1.2 Demonstrate the ability to read effectively, think critically, and communicate clearly in group situations as well as in individual presentations.

Goal 2 - Religious Values

Achieve an understanding of religious and moral dimensions of human experience.

- 2.1 Identify and describe the values, questions and expressions of truth as exemplified in the Judeo-Christian tradition as well as within various other religious traditions.
- 2.2 Explain the impact and influence of religion on contemporary institutions and on individual value decisions.

Goal 3 - Cultural Traditions

Develop an understanding of and responsiveness to the aesthetic, emotive, and intellectual expressions of human concerns through the Humanities and Arts.

- 3.1 Demonstrate the ability to interpret the Humanities as they are expressed in their cultural richness and ethnic diversity.
- 3.2 Identify and describe the stages of human civilizations as expressed through the creative arts.
- 3.3 Explain how historical and/or philosophical investigation of human experience reveals multiple views of the human condition.
- 3.4 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.

Goal 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.

- 4.1 Demonstrate an understanding of the concepts, language and tools of mathematics and develop the ability to reason using mathematical techniques.
- 4.2 Demonstrate an understanding of the scientific bases for the study of the physical and biological worlds and their relationship to cultural and social life.
- 4.3 Demonstrate an understanding of the scientific method and its application to problem solving and discovery.
- 4.4 Demonstrate a fundamental understanding of the theory and application of computer technology and information management.

Goal 5 - Personal and Social Environment

Develop an understanding of the ways in which individuals perceive, experience, and behave in their personal and social environment.

- 5.1 Describe the ways in which the individual is affected by the total environment.
- 5.2 Describe and analyze the elements which contribute to effective interpersonal relationships.
- 5.3 Identify and analyze social problems confronting modern pluralistic society and the various personal and community strategies for dealing with these.
- 5.4 Demonstrate an understanding of adaptation to change in personal and social environments.

Goal 6 - World Citizenship

Develop a facility for international and national citizenship skills.

- 6.1 Demonstrate an elementary theoretical understanding of international relations.
- 6.2 Describe international problems, achievements, and aspirations of the U.S. and other nations and cultures.
- 6.3 Analyze significant contemporary national and international issues.
- 6.4 Demonstrate through informed opinion the ability to participate effectively in the formulation of national and international policies.
- 6.5 Evaluate the impact of the increasingly multicultural nature and growing internationalization of American society.

Program Major and Career Goals (Goals 7-8)

Goal 7 - Personal and Professional Development

Achieve individual educational goals for personal enrichment and/or career development.

- 7.1 Knowledge and skills are based on specific major.

Goal 8 - Significant Content Knowledge

Master a significant body of content knowledge.

- 8.1 Knowledge and skills are based on specific major.

GRADUATION REQUIREMENTS FOR ASSOCIATE DEGREE

For the associate degree, a minimum of 60 s.h., including a major and a minimum of 33 semester hours in General Education, as outlined below, as well as (for specified students) the University Requirement, must be completed. (See also page 12.)

UNIVERSITY REQUIREMENT:

- 1 s.h. UNV 1010 Transition to Higher Education
For all students under age 24 transferring in fewer than 13 s.h. of college credit – or
- 3 s.h. ESL 1010 Orientation to Higher Education for the International Student
For all international students attending an American University for the first time. If a student meets the criteria for both UNV 1010 and ESL 1010, only ESL 1010 is required.

GENERAL EDUCATION

GOAL 1 — COMMUNICATION: Develop effective communication skills.

COMMUNICATION SKILLS, MINIMUM OF:

- 6 s.h. ENG 1010 Communication Skills I (3 s.h.) *and*
ENG 1020 Communication Skills II (3 s.h.) *or*
ESL 4230* Academic ESL Writing (3 s.h.)

*For non-native speakers of English only.

GOAL 2 — RELIGIOUS VALUES: Achieve an understanding of religious and moral dimensions of human experience.

VALUES/RELIGIOUS PERSPECTIVES**, MINIMUM OF:

- 3 s.h. Religious Studies

** RST 3450, RST 3470, and all THL courses are designed basically within the Catholic tradition; all other RST courses are ecumenical in approach and of general interest.

GOAL 3 — CULTURAL TRADITIONS: Develop an understanding of and responsiveness to the aesthetic, emotive, and intellectual expressions of human concerns through the humanities and arts.

CULTURE AND AESTHETIC APPRECIATION, MINIMUM OF:

- 3.A.
— 4 s.h. HUM 2010 The Medium and the Message (4 s.h.)
HUM 2020 Humanities Through the Arts (4 s.h.)
- 3.B.
— 3 s.h. AHIS 2020 Great Monuments in World Art (3 s.h.)
ENG 2230 Ideas in World Literature (3 s.h.)
MUS 2020 Music Through the Ages (3 s.h.)
- 3.D.
— 3 s.h. HIS 1080 Ancient World (4 s.h.)
HIS 2450 Medieval and Renaissance Europe (4 s.h.)
HIS 3300 Early Modern Europe (4 s.h.)
HIS 3330 Modern Europe, 1815-Present (4 s.h.)
PHL 1010 Introduction to Philosophy (3 s.h.)
PHL 1050 Philosophy of Person (3 s.h.)
PHL 1550 Inquiry Into Values (3 s.h.)
PHL 2010 Logic (3 s.h.)
PHL 2210 Person and Society (3 s.h.)

GOAL 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.

4.A. MATHEMATICAL SKILLS, MINIMUM OF:

- 3 s.h. MTH 1050 Intermediate Algebra (4 s.h.)
MTH 1150 Contemporary Mathematics (3 s.h.)
MTH 1210 Precalculus (5 s.h.)
MTH 2350 Probability and Statistics (4 s.h.)
MTH 2510 Calculus with Analyt. Geometry I (5 s.h.)

4.B. COMPUTER LITERACY, MINIMUM OF:

- 2 s.h. CIS 2250 Computer Fundamentals (2 s.h.)
CIS 2380 Introduction to Computers (3 s.h.)
CSC 2010 Web Fundamentals (3 s.h.)
CSC 2080 Computer Science I (3 s.h.)

Note: Students are required to pass a computer literacy course within their first three (3) semesters at Madonna University, unless they have received transfer credit for such a course taken within the past three (3) years.

4.C. SCIENTIFIC BASES OF TECHNOLOGICAL REALITIES, MINIMUM OF:

- 3 s.h. BIO 1010 Introduction to Biology (4 s.h.)
BIO 2240 Basic Human Physiology (4 s.h.)
BIO 2430 Anatomy and Physiology I (3 s.h.)
BIO 3150 Human Genetics and Society (3 s.h.)
CHM 1010 Intro. Principles of Chemistry (4 s.h.)
CHM 1110 General Chemistry I (4 s.h.)
CHM 1610 Introduction to Life Chemistry (4 s.h.)
ESS 2160 Earth Science (4 s.h.)
ESS 3030 Oceans: Continuing Frontier (4 s.h.)
ESS 3260 Meteorology (3 s.h.)
ESS 3290 Principles of Astronomy (4 s.h.)
GER 3150 Physical Aspects of Aging (3 s.h.)
NFS 2250 Human Nutrition (4 s.h.)
NSC 1250 Health Problems (4 s.h.)
NSC 3250 The Ascent of Man (4 s.h.)
PHY 2530 General Physics I (4 s.h.)
PHY 2540 General Physics II (4 s.h.)

GOAL 5 — PERSONAL AND SOCIAL ENVIRONMENT: Develop an understanding of the ways in which individuals perceive, experience, and behave in their personal and social environment.

PERSONAL, SOCIAL, AND SOCIETAL SKILLS, MINIMUM OF:

- 3 s.h. PSY 1010 General Psychology (3 s.h.)

GOAL 6 — WORLD CITIZENSHIP: Develop a facility for international and national citizenship skills.

NATIONAL AND INTERNATIONAL CITIZENSHIP SKILLS, MINIMUM OF:

- 3 s.h. HIS 1010 World Problems (3 s.h.)
HIS 4320 Diplomatic History of the United States (3 s.h.)
HIS 4630 Emerging Nations (3 s.h.)

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

For the bachelor degree, a minimum of 120 s.h., including a major and a minimum of 52 semester hours in General Education, as outlined below, as well as (for specified students) the University Requirement, must be completed. (See also page 12.)

UNIVERSITY REQUIREMENT:

- 1 s.h. UNV 1010 Transition to Higher Education
For all students under age 24 transferring in fewer than 13 s.h. of college credit — or
- 3 s.h. ESL 1010 Orientation to Higher Education for the International Student
For all international students attending an American University for the first time. If a student meets the criteria for both UNV 1010 and ESL 1010, only ESL 1010 is required.

GENERAL EDUCATION

GOAL 1 — COMMUNICATION: Develop effective communication skills.

COMMUNICATION SKILLS, MINIMUM OF:

- 6 s.h. ENG 1010 Communication Skills I (3 s.h.) and
ENG 1020 Communication Skills II (3 s.h.) or
ESL 4230* Academic ESL Writing (3 s.h.)

*For non-native speakers of English only.

GOAL 2 — RELIGIOUS VALUES: Achieve an understanding of religious and moral dimensions of human experience.

VALUES/RELIGIOUS PERSPECTIVES**, MINIMUM OF:

- 6 s.h. Religious Studies

** All courses or workshops listed or cross-listed with the RST or THL rubrics may be used toward fulfillment of graduation Goal 2. Note that RST 3450, RST 3470, and all THL courses are designed basically within the Catholic tradition; all other RST courses are ecumenical in approach and of general interest.

GOAL 3 — CULTURAL TRADITIONS: Develop an understanding of and responsiveness to the aesthetic, emotive, and intellectual expressions of human concerns through the humanities and arts.

CULTURE AND AESTHETIC APPRECIATION, MINIMUM OF:

- 3.A.
 - 4 s.h. HUM 2010 The Medium and the Message (4 s.h.)
 - HUM 2020 Humanities Through the Arts (4 s.h.)
 - HUM 3050 The Idea of Justice (4 s.h.)
 - HUM 3080 The Nature and Scope of Inquiry (4 s.h.)
 - HUM 3090 Holocaust: Issues and Themes in the Genocide of European Jewry (4 s.h.)
- 3.B.
 - 3 s.h. AHIS 2020 Great Monuments in World Art (3 s.h.)
 - ENG 2230 Ideas in World Literature (3 s.h.)
 - MUS 2020 Music Through the Ages (3 s.h.)
- 3.C.
 - 4 s.h. ENG 3010 Major American Writers: Beginnings to 1900 (4 s.h.)
 - ENG 3020 Major American Writers: 1900 to Present (4 s.h.)
 - ENG 3540 American Folklore and Literature (4 s.h.)

- ENG 3550 Women in Literature (4 s.h.)
- ENG 3610 Major British Writers: Chaucer to Johnson (4 s.h.)
- ENG 3620 Major Brit. Writers: Blake to Eliot (4 s.h.)
- ENG 3710 Contemporary Literature (4 s.h.)
- ENG 4210 Time and Literature (4 s.h.)
- ENG 4230 Voices and Visions: Modern American Poets (4 s.h.)
- ENG 4540 Classics of African-American Lit. (4 s.h.)
- ENG 4550 Voices of Pluralism in American Literature (4 s.h.)
- ENG 4750, 4760 Studies in Literature (4 s.h. each)

3.D.

- 3 s.h. HIS 1080 Ancient World (4 s.h.)
- HIS 2450 Medieval and Renaissance Europe (4 s.h.)
- HIS 3300 Early Modern Europe (4 s.h.)
- HIS 3330 Modern Europe, 1815-Present (4 s.h.)
- PHL 1010 Introduction to Philosophy (3 s.h.)
- PHL 1050 Philosophy of Person (3 s.h.)
- PHL 1550 Inquiry Into Values (3 s.h.)
- PHL 2010 Logic (3 s.h.)
- PHL 2210 Person and Society (3 s.h.)
- PHL 3150 Existentialism (3 s.h.)
- PHL 3310 Philosophy of Science (3 s.h.)
- PHL 3650 Philosophy of Knowledge (3 s.h.)
- PHL 4080 Moral Issues in Business (3 s.h.)
- PHL 4090 Environmental Ethics (3 s.h.)
- PHL 4110 Medical Ethics (3 s.h.)
- PHL 4150 Philosophy of Religion (3 s.h.)
- PHL 4230 Survey of World Views and Value Systems (3 s.h.)

GOAL 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.

4.A. MATHEMATICAL SKILLS, MINIMUM OF:

- 3 s.h. MTH 1050 Intermediate Algebra (4 s.h.)
- MTH 1060 Trigonometry (3 s.h.)
- MTH 1150 Contemporary Mathematics (3 s.h.)
- MTH 1210 Precalculus (5 s.h.)
- MTH 2300 Business Calculus (4 s.h.)
- MTH 2330 Learning and Teaching Number Concepts (3 s.h.)
- MTH 2350 Probability and Statistics (4 s.h.)
- MTH 2510 Calculus with Analytic Geom. I (5 s.h.)

4.B. COMPUTER LITERACY, MINIMUM OF:

- 2 s.h. CIS 2250 Computer Fundamentals (2 s.h.)
- CIS 2380 Introduction to Computers (3 s.h.)
- CSC 2010 Web Fundamentals (3 s.h.)
- CSC 2080 Computer Science I (3 s.h.)

Note: Students are required to pass a computer literacy course within their first three (3) semesters at Madonna University, unless they have received transfer credit for such a course taken within the past three (3) years.

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**4.C. SCIENTIFIC BASES OF TECHNOLOGICAL REALITIES/
BIOLOGICAL SCIENCE, MINIMUM OF:**

- 3 s.h. BIO 1010* Introduction to Biology (4 s.h.)
 BIO 1030* General Biology I (4 s.h.)
 BIO 1040* General Biology II (4 s.h.)
 BIO 2240 Basic Human Physiology (4 s.h.)
 BIO 2260* Microbiology (4 s.h.)
 BIO 2430* Anatomy and Physiology I (3 s.h.)
 BIO 2440* Anatomy and Physiology II (3 s.h.)
 BIO 3150 Human Genetics and Society (3 s.h.)
 BIO 3300 Human Sexuality in a World of
 Diversity (4 s.h.)
 BIO 3610 Epidemiology (3 s.h.)
 BIO 3710 Pathophysiology (3 s.h.)
 CHM 3610* Biochemistry I (4 s.h.)
 GER 3150 Physical Aspects of Aging (3 s.h.)
 NFS 2250 Human Nutrition (4 s.h.)
 NSC 1250 Health Problems (4 s.h.)
 NSC 3080 The Nature and Scope of Inquiry (3-4 s.h.)
 NSC 3730* Science Foundations I (4 s.h.)

**4.D. SCIENTIFIC BASES OF TECHNOLOGICAL REALITIES/
PHYSICAL SCIENCE, MINIMUM OF:**

- 4 s.h. CHM 1010* Introduct. Principles of Chemistry (4 s.h.)
 CHM 1110* General Chemistry I (4 s.h.)
 CHM 1610* Introduction to Life Chemistry (4 s.h.)
 ESS 2160* Earth Science (4 s.h.)
 ESS 3030 Oceans: Continuing Frontier (4 s.h.)
 ESS 3260 Meteorology (3 s.h.)
 ESS 3290* Principles of Astronomy (4 s.h.)
 NSC 3080 Nature and Scope of Inquiry (3-4 s.h.)
 NSC 3250 The Ascent of Man (4 s.h.)
 NSC 3740* Science Foundations II (4 s.h.)
 PHY 2530* General Physics I (4 s.h.)
 PHY 2540* General Physics II (4 s.h.)
 PHY 2710* Fundamental Electronics (4 s.h.)

* These courses include a Laboratory Science Experience. One of the science courses must be selected from the group that includes a laboratory experience.

**GOAL 5 — PERSONAL AND SOCIAL ENVIRONMENT:
Develop an understanding of the ways in which individuals perceive, experience, and behave in their personal and social environment.**

PERSONAL, SOCIAL, AND SOCIETAL SKILLS, MINIMUM OF:

5.A.

- 3 s.h. PSY 1010 General Psychology (3 s.h.)

5.B.

- 6 s.h. BUS 1010 Contemporary Society and the
 Organization (3 s.h.)
 CJ 1020 Introduction to Criminal Justice (3 s.h.)
 ENG 2620 Language and Culture (3 s.h.)
 ENG 3260 Business and Professional Writing (BUS)
 (3 s.h.)
 FIN 3700 Life Cycle Financial Planning (3 s.h.)
 GER 1070 Introduction to Gerontology (3 s.h.)
 GER 3070 Psychology of Aging (3 s.h.)
 LAW 1000 Introduction to Paralegal Studies (3 s.h.)
 MGT 2160 Human Behavior and Attitudes (2 s.h.)
 MGT 2360 Principles of Management (3 s.h.)
 MGT 3020 Organizational Behavior (3 s.h.)
 MGT 3160 Human Behavior and Leadership (2 s.h.)

- PSY 2450 Life Span Developmental Psychology
 (4 s.h.)
 PSY 3660 Social Psychology: A Psychological
 Perspective (4 s.h.)
 SSC 3080 The Nature and Scope of Inquiry
 (3-4 s.h.)
 SLS 1000 Intro. to Sign Language Studies (3 s.h.)
 SLS 3310 Deaf Culture (3 s.h.)
 SOC 1010 Intro. to Sociology and Cultural
 Anthropology (4 s.h.)
 SOC 2210 Social Issues and Movements (4 s.h.)
 SOC 3220 Race, Ethnicity, and Class in American
 Life (4 s.h.)
 SOC 3530 Marriage and the Family (4 s.h.)
 SOC 3670 Social Psychology (4 s.h.)
 SOC 3750 Religion and Society (3 s.h.)
 SW 2300 Introduction to Social Work (4 s.h.)

**GOAL 6 — WORLD CITIZENSHIP: Develop a facility for
international and national citizenship skills.**

**NATIONAL AND INTERNATIONAL CITIZENSHIP SKILLS,
MINIMUM OF:**

6.A.

- 3 s.h. HIS 1010 World Problems (3 s.h.)
 HIS 4320 Diplomatic History of the United States
 (3 s.h.)
 HIS 4630 Emerging Nations (3 s.h.)

6.B.

- 3 s.h. CJ 2350 The American Judicial Process (3 s.h.)
 ECN 2710 Economics for Human Services (3 s.h.)
 ECN 2720 Principles of Microeconomics (4 s.h.)
 ECN 2730 Principles of Macroeconomics (4 s.h.)
 GEO 3010 World Regional Geography (4 s.h.)
 HIS 2310 United States to 1900 (4 s.h.)
 HIS 3410 Minority Groups in America (4 s.h.)
 HIS 4510 Economic and Business History of the
 United States (4 s.h.)
 HIS 4530 United States in the Twentieth
 Century (4 s.h.)
 PSC 2510 American Government (4 s.h.)
 PSC 3010 International Relations (4 s.h.)
 PSC 3210 Comparative Politics (4 s.h.)
 PSC 4510 State and Local Government (4 s.h.)
 Foreign Language (3 s.h.)*

* Up to three (3) semester hours of foreign language, including Sign Language Studies but excluding SLS 1000 and FL 2100, can be used to satisfy the second portion of requirements under Goal 6 (World Citizenship) of the General Education requirements.

Students who wish to study a language not being taught at Madonna University should see their major advisor or the Office of Academic Advising to arrange Consortium registration at the University of Detroit Mercy or Marygrove College, or see the Center for International Studies to discuss opportunities for study abroad.

Plans of Study

Refer to the chart on pages 13-15 to identify the college or school which is home to the advisors for each of these plans. Advisors can discuss how each plan might meet your academic and career goals and provide more in-depth information on following the plan, as well as provide information on updates and changes.

ACCOUNTING

Accounting Major: Bachelor of Science (62 s.h.)

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
ACC 3030	Intermediate Accounting I	3 s.h.
ACC 3040	Intermediate Accounting II	3 s.h.
ACC 3130	Internal Financial Analysis	3 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 <i>or</i>	3 s.h.
ACC 4060	Government and Non-Profit Accounting	3 s.h.
ACC 4500	Auditing	3 s.h.
ACC 4700	Advanced Managerial/Cost Accounting	3 s.h.
BUS 3950	Business and Society	3 s.h.
BL 3330	Business Law I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
FIN 3150	Business Finance	3 s.h.
MGT 2360	Principles of Management	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.
	Business electives (<i>chose for example</i>):	4 s.h.
ACC 3910	Cooperative Education (1 s.h.)	
ACC 4710-4750	Seminars in Accounting (1-3 s.h.)	
ACC 4910	Cooperative Education (1 s.h.)	
BL 4330	Business Law II (3 s.h.)	
CIS 4320	Audit and Control of Accounting and Information Systems (2 s.h.)	
ENG 3260	Business and Professional Writing (BUS) (3 s.h.)	
FIN 3710	Institutional Portfolio Management (3 s.h.)	
INB 3140	International Business (3 s.h.)	
INB 4350	International Trade Structures and Systems (3 s.h.)	
		<u>62 s.h.</u>

REQUIRED SUPPORT COURSES:

ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
MTH 1050	Intermediate Algebra <i>or</i>	4 s.h.
MTH 1210	Precalculus	5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability & Statistics	<u>4 s.h.</u>
		20-21 s.h.

Students planning to take the CPA examination should take ACC 4060, Government and Non-Profit Accounting, and CIS 4320, Audit and Control of Accounting and Information Systems, as their major electives.

Accounting 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.
ACC 3030	Intermediate Accounting I	3 s.h.
ACC 3130	Internal Financial Analysis	3 s.h.
ACC 3580	Taxation I	3 s.h.
BL 3330	Business Law I	3 s.h.
MGT 2360	Principles of Management	<u>3 s.h.</u>
		21 s.h.

Activity and Program Planning

See listing under GERONTOLOGY.

ADDICTION STUDIES

Students planning to be certified by the State of Michigan Board of Certified Addiction Professionals as a Certified Addiction Counselor I (CAC-I) should seek additional information from the Addiction Studies advisor.

Certificate of Completion (12 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 1010	General Psychology	3 s.h.
AS 2000	Addiction Studies: General Information	1 s.h.
AS 3430	Addiction Studies: Focus on the Individual	1 s.h.
AS 3440	Addiction Studies: Family Systems	1 s.h.
	Addiction Studies electives	<u>6 s.h.</u>
		12 s.h.

ALLIED HEALTH

This associate of applied science program, designed for the health professional who has completed an accredited clinical program, builds on the certification, licensure, or registration of the practicing health professional. Upon admission, graduates of approved non-collegiate programs must apply for 16-32 s.h. of credit by evaluation.

Group 1: Graduates of the following non-collegiate, non-contractual programs may apply for 16 s.h. of credit:

Certified Laboratory Assistant (CLA)	Nuclear Medicine Technologist
Cytotechnologist	Nurse (LPN, LVN)
Dental Assistant	Pharmacy Technician
Dental Lab Technician	Phlebotomy Technician
Diagnostic Medical Sonographer	Respiratory Technician (CRRT)
Echocardiology	Surgical Technologist
Electroneurodiagnostic Technician	Veterinary Technologist
Medical Assistant (RMA, CMA)	

Group 2: Graduates of the following non-collegiate, non-contractual programs may apply for 32 s.h. of credit:

Emergency Medical Technician (paramedic)	Nursing Home Administrator
CT-MRI Technologist	Radiographer (Radiologic Technologist)
Histopathology Technologist	Respiratory Therapist
Medical Laboratory Technician (MLT-C)	RN (diploma graduates)
Medical Technologist (HEW/AMT)	

Allied Health Major, Group 1: Associate of Applied Science (32 s.h.)

REQUIRED MAJOR COURSES:

Credit earned from Certification, Licensure, or Registration	16 s.h.
AHA 1010 Medical Terminology	2 s.h.
AHA 2010 Introduction to Health Care Professions	2 s.h.
BIO 2430 Anatomy and Physiology I	3 s.h.
BIO 2440 Anatomy and Physiology II	3 s.h.
CHM 1010 or 1110 General Chemistry I	4 s.h.
CIS 2250 Computer Fundamentals	2 s.h.
	<u>32 s.h.</u>

Allied Health Major, Group 2: Associate of Applied Science (34 s.h.)

REQUIRED MAJOR COURSES:

Credit earned from Certification, Licensure, or Registration	32 s.h.
CIS 2250 Computer Fundamentals	2 s.h.
	<u>34 s.h.</u>

ALLIED HEALTH ADMINISTRATION

This program is designed for the health professional who has completed an accredited clinical program and who possesses current certification or licensure in a specialty field. Upon admission, graduates of approved non-collegiate programs must apply for 16-32 s.h. of credit by evaluation (see information under ALLIED HEALTH, above).

Allied Health Administration Major: Bachelor of Science (37-38 s.h.)

REQUIRED MAJOR COURSES:

ACC 2000 Survey of Accounting	3 s.h.
AHA 3800 Health Care Organization	2 s.h.
AHA 4250 Health Care Law and Public Policy	3 s.h.
AHA 4740 Health Care Finance	3 s.h.
AHA 4760 Issues in Health Care Administration	3 s.h.
AHA 4780 Educational Principles for Health Care Personnel	2 s.h.
AHA 4900 Fundamentals of Health Care Research	2 s.h.
AHA 4950 Senior Seminar	2 s.h.
CIS 2380 Introduction to Computers	3 s.h.
ECN 2710 Economics for Human Services	3 s.h.
MGT 2360 Principles of Management	3 s.h.
MGT 3160 Human Behavior and Leadership	2 s.h.
MGT 3750 Allied Health Administration	3 s.h.
Approved electives	3-4 s.h.
	<u>37-38 s.h.</u>

Field Placements for Allied Health Administration are available by arrangement (1-12 s.h.).

AMERICAN STUDIES

American Studies Minor (24 s.h.)

REQUIRED MINOR COURSES:

ENG 3010 Major American Writers: Beginnings to 1900 or	
ENG 3020 Major American Writers: 1900 to Present	4 s.h.
ENG 3540 American Folklore and Literature or	
ENG 4540 Classics of African-American Literature or	
ENG 4550 Voices of Pluralism in American Literature	4 s.h.
HIS 2310 United States to 1900 or	
HIS 4810 American Civil War	4 s.h.
HIS 4320 Diplomatic History of the United States or	
HIS 4510 Economic and Business History of the United States	3-4 s.h.
HIS 4530 United States in the Twentieth Century	4 s.h.
Minor electives, to be chosen from:	4-5 s.h.
AHIS 4750 Studies in Art History: American Art (3 s.h.)	
ENG 3010 Major Amer. Writers: Begin. to 1900 (4 s.h.)	
ENG 3020 Major Amer. Writers: 1900 to Present (4 s.h.)	
ENG 3540 American Folklore and Literature (4 s.h.)	
ENG 4540 Classics of African-Amer. Liter. (4 s.h.)	
ENG 4550 Voices of Pluralism in Amer. Liter. (4 s.h.)	
ENG 4750, 4760 Studies in Literature: American Topics (4 s.h. each)	
HIS 2310 United States to 1900 (4 s.h.)	
HIS 4320 Diplomatic History of the United States (3 s.h.)	
HIS 4510 Economic & Bus. History of the U.S. (4 s.h.)	
HIS 4810 American Civil War (4 s.h.)	
PSC 2510 American Government (4 s.h.)	
Approved workshops and electives (1-5 s.h.)	
	<u>24 s.h.</u>

APPLIED SCIENCE

Applied Science Major: Bachelor of Applied Science

The Applied Science program is designed for technical programs in which a student may earn, where applicable, an associate or bachelor degree in applied science.

The following Applied Science programs are under the direction of Biological and Health Sciences:

1. Selected Allied Health Program graduates.
2. Two year program in Medical Laboratory Technician completed at Madonna University.

The following Applied Science programs are under the direction of Physical and Applied Sciences:

1. Electronics Technology program completed at National Education Center, Livonia, or Eastpointe (formerly East Detroit), Michigan.
2. Auto Collision Repair, Auto Mechanics, Electronic Technology, and Industrial Controls programs completed at MoTech, Livonia.
3. Selected certificate and associate degree technical programs completed at community colleges.
4. Selected vocational and trade programs completed at collegiate or non-collegiate institutions which are applicable to a Michigan Temporary Vocational Authorization Certificate.

REQUIRED MAJOR COURSES*:

APS 4950 Senior Seminar	2 s.h.
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* See the Physical and Applied Sciences Department for specific Plans of Study, which list other course requirements.

ART

A comprehensive portfolio/exhibit representative of the student's growth in a particular medium is required of ALL ART MAJORS (Fine Arts, Graphic Design, Visual Arts Education). Advanced placement credit is based upon evaluation of a portfolio of previous art work.

Additional workshops are offered each year in specialized topics, e.g., American and Detroit Architecture, Portfolio Workshop, Chinese and Japanese Art and Gardens, Watercolor Workshop.

The Art Department reserves the right to retain examples of students' work for the annual student exhibit.

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

REQUIRED MAJOR COURSES:

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2750	Painting and Composition <i>or</i>	
ART 2800	Creative Watercolor	3 s.h.
ART 3460	Relief and Silkscreen Printing	3 s.h.
ART 4080	Three Dimensional Forms	4 s.h.
ART 4470	Intaglio (Etching) <i>or</i>	
ART 4480	Lithography	3 s.h.
AHIS 3250*	Art History: Ancient to Renaissance	4 s.h.
AHIS 3260*	Art History: Renaissance to 20th Century	4 s.h.
AHIS 4150	Modern Art: Late 19th Century and 20th Century Art	4 s.h.
HUM 4960	Senior Seminar	3 s.h.
	Major electives, to be chosen from:	9 s.h.
	ART 2700 Introduction to Computer Art (3 s.h.)	
	ART 3050 Lettering and Calligraphy (3 s.h.)	
	ART 3130 Photography I (3 s.h.)	
	ART 3140 Photography II (3 s.h.)	
	ART 3300 Advanced Drawing (3 s.h.)	
	ART 3310 Advanced Painting (3 s.h.)	
	ART 3390 Oriental Brushwork (2 s.h.)	
	ART 4400, 4410 Advanced Studio electives (2-4 s.h.)	
	AHIS 3350 Asian Art: India, China, Japan (3 s.h.)	
	AHIS 4750 Studies in Art History (3 s.h.)	
	ART, AHIS Workshops	
		<u>45 s.h.</u>

*Substitutes for general education requirement of AHIS 2020.

Comprehensive examinations are fulfilled by the production of a comprehensive portfolio/exhibit representative of the student's growth in fine arts.

Fine Arts Major: Associate of Arts (30 s.h.)

REQUIRED MAJOR COURSES:

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2750	Painting and Composition <i>or</i>	
ART 2800	Creative Watercolor	3 s.h.
ART 3460	Relief and Silkscreen Printing	3 s.h.
ART 4470	Intaglio (Etching) <i>or</i>	
ART 4480	Lithography	3 s.h.
ART 4080	Three Dimensional Forms	4 s.h.
AHIS 3250*	Art History: Ancient to Renaissance	4 s.h.
AHIS 3260*	Art History: Renaissance to 20th Century	4 s.h.
	Electives	<u>1 s.h.</u>
		30 s.h.

*Substitutes for general education requirement of AHIS 2020.

Comprehensive examinations are fulfilled by the production of a comprehensive portfolio/exhibit representative of the student's growth in fine arts.

Fine Arts Minor (24 s.h.)

REQUIRED MINOR COURSES:

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2750	Painting and Composition	3 s.h.
ART 3460	Relief and Silkscreen Printing <i>or</i>	
ART 4470	Intaglio (Etching) <i>or</i>	
ART 4480	Lithography	3 s.h.
ART 4080	Three Dimensional Forms	4 s.h.
AHIS 3260*	Art History: Renaissance to 20th Century <i>or</i>	
AHIS 4150	Modern Art: Late 19th Century and 20th Century	
	Art	4 s.h.
	Electives	<u>2 s.h.</u>
		24 s.h.

*Substitutes for general education requirement of AHIS 2020.

Art History Minor (20 s.h.)

REQUIRED MINOR COURSES:

AHIS 3250*	Art History: Ancient to Renaissance	4 s.h.
AHIS 3260*	Art History: Renaissance to Modern	4 s.h.
AHIS 3350	Asian Art: India, China, Japan	3 s.h.
AHIS 4150	Modern Art: Late 19th Century and 20th Century	
	Art	4 s.h.
AHIS	Minor electives	<u>5 s.h.</u>
		20 s.h.

*Substitutes for general education requirement of AHIS 2020.

Graphic Design Major: Bachelor of Arts (45 s.h.)

REQUIRED MAJOR COURSES:

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 1210	Introduction to Commercial Art	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2680	Commercial Art Experiences	4 s.h.
ART 2700	Introduction to Computer Art	3 s.h.
ART 3460	Relief and Silkscreening <i>or</i>	
ART 4470	Intaglio (Etching) <i>or</i>	
ART 4480	Lithography	3 s.h.
ART 3610	Advertising Design	4 s.h.
ART 4250	Advanced Problems in Commercial Art	4 s.h.
ART 4950	Senior Seminar	1 s.h.
AHIS 3250*	Art History: Ancient to Renaissance	4 s.h.
AHIS 3260*	Art History: Renaissance to 20th Century	4 s.h.
AHIS 4150	Modern Art: Late 19th Cent. and 20th Cent. Art	4 s.h.
	Major electives, to be chosen from:	2-3 s.h.
	ART 2100 Commercial Illustration (3 s.h.)	
	ART 3050 Lettering and Calligraphy (3 s.h.)	
	ART 3130 Photography I (3 s.h.)	
	ART 3140 Photography II (3 s.h.)	
	ART 3300 Advanced Drawing (3 s.h.)	
	ART 3310 Advanced Painting (3 s.h.)	
	ART 3390 Oriental Brushwork (2 s.h.)	
	ART 3700 Adobe Illustrator I-III (1 s.h. each)	
	ART 3710 Photoshop I-III (1 s.h. each)	
	ART 4400, 4410 Advanced Studio electives (2-4 s.h.)	
	AHIS 3350 Asian Art: India, China, Japan (3 s.h.)	
	AHIS 4750 Studies in Art History	
		<u>45 s.h.</u>

*Substitutes for general education requirement of AHIS 2020.

One cooperative education placement is highly recommended.

Comprehensive examinations are fulfilled by the production of a comprehensive portfolio/exhibit representative of the student's growth in commercial art.

Graphic Design Major: Associate of Arts (30 s.h.)

REQUIRED MAJOR COURSES:

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 1210	Introduction to Commercial Art	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2680	Commercial Art Experiences	4 s.h.
ART 3460	Relief and Silkscreen Printing <i>or</i>	
ART 4470	Intaglio (Etching) <i>or</i>	
ART 4480	Lithography	3 s.h.
ART 3610	Advertising Design	4 s.h.
AHIS 3260*	Art History: Renaissance to 20th Century	4 s.h.
	Major elective	<u>3 s.h.</u>
		30 s.h.

*Substitutes for general education requirement of AHIS 2020.

Comprehensive examinations are fulfilled by the production of a comprehensive portfolio/exhibit representative of the student's growth in commercial art.

Visual Arts Education Major: Bachelor of Arts (56-59 s.h.)

REQUIRED MAJOR COURSES:

Studio Art core component (<i>see below</i>)	24 s.h.
Advanced Studio requirement (<i>see below</i>)	8 s.h.
Art History component (<i>see below</i>)	12-15 s.h.
Art Education component, excluding EDU (<i>see below</i>)	9 s.h.
Capstone (<i>see below</i>)	<u>1 s.h.</u>
	56-59 s.h.

STUDIO ART CORE COMPONENT (24 s.h.)

ART 1050	The Visual Arts in 2-D	4 s.h.
ART 2070	Creative Design and Color	4 s.h.
ART 2700	Introduction to Computer Art	3 s.h.
ART 2750	Painting and Composition <i>or</i>	
ART 2800	Creative Watercolor	3 s.h.
ART 3130	Photography I	3 s.h.
ART 3460	Relief and Silkscreen Printing	3 s.h.
ART 4080	Three Dimensional Forms	<u>4 s.h.</u>
		24 s.h.

ADVANCED STUDIO REQUIREMENT (MIN. 8 S.H. IN ONE STUDIO AREA; SELECT DRAWING OR PAINTING OR PRINTMAKING OR SCULPTURE)

Drawing Track (8 credits minimum)

ART 3300	Advanced Drawing (<i>must take at least once</i>)	3-6 s.h.
ART 4400 <i>and/or</i> 4410	Advanced Studio	2-5 s.h.

Painting Track (8 credits minimum)

ART 3310	Advanced Painting (<i>must take at least once</i>)	3-6 s.h.
ART 4400 <i>and/or</i> 4410	Advanced Studio	2-5 s.h.

Printmaking Track (8 credits minimum)

ART 4470	Intaglio	3 s.h.
ART 4480	Lithography	3 s.h.
ART 4400 <i>or</i> 4410	Advanced Studio	min. 2

Sculpture Track (8 credits minimum)

ART 4280	Advanced Sculpture	3-6 s.h.
ART 4400 <i>and/or</i> 4410	Advanced Studio	2-5 s.h.

ART HISTORY COMPONENT

AHIS 3250	Art History: Ancient to Renaissance	4 s.h.
AHIS 3260	Art History: Renaissance to 20th Century	4 s.h.
AHIS 3350	Art History: Art and Culture of Asia	3 s.h.
AHIS 4150	Art History: Modern Art	4 s.h.

(*Note: if transfer credits are accepted toward the Art History component, the minimum total of this component must be 12 s.h.*)

ART EDUCATION COMPONENT

AED 3100	Visual Culture	3 s.h.
AED 3800	Principles of Elementary Visual Arts Education	3 s.h.
AED 3810	Principles of Secondary Visual Arts Education	3 s.h.

(*Note: to complete the Art Education component for State of Michigan certification, Secondary certificate candidates also take EDU 4510 for 4 s.h. Candidates for Dual Level certificates take EDU 4510.03 for 3 s.h., since they also take EDU 4500.*)

CAPSTONE

ART 4950	Senior Seminar	<u>1 s.h.</u>
		56-59 s.h.

Comprehensive examinations are fulfilled by the production of a comprehensive portfolio/exhibit representative of the student's growth in fine arts.

Note: the Visual Arts Education major, in conjunction with the Teacher Education Program, results in an endorsement to teach Visual Arts Education K-12 on either a Secondary Provisional teaching certificate or a Dual-Level Elementary/Secondary Provisional teaching certificate. Art endorsement is not available on a teaching certificate that is Elementary only.

BIOCHEMISTRY

Biochemistry Major: Bachelor of Science (38 s.h.)

REQUIRED MAJOR COURSES:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 3610	Biochemistry I	4 s.h.
CHM 3620	Biochemistry II	4 s.h.
CHM 4410	Physical Chemistry I	4 s.h.
CHM 4420	Physical Chemistry II	4 s.h.
CHM 4950	Senior Seminar	<u>2 s.h.</u>
		38 s.h.

REQUIRED SUPPORT COURSES:*

BIO 2240**	Basic Human Physiology	4 s.h.
BIO 2260**	Microbiology	4 s.h.
BIO 3010**	Genetics	4 s.h.
CIS 2800	Introduction to Visual Basic Programming	3 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		32 s.h.

**Biology minor includes these courses plus BIO 1030 and 1040.

*Teacher certification as a chemistry major can be obtained with completion of CHM 3510 and CHM 4510. Required support courses provide a basis for selecting a minor toward secondary certification. These include:

1. Mathematics (22 s.h.) with MTH 2350, 3300, 3410, and 4650, along with CSC 2010 or 2080.
2. Physics (20 s.h.) with PHY 2710, 3510, 4510.
3. Biology (20 s.h.) with BIO 1030, 1040.
4. ESS 2160, Earth Science (4 s.h.), or ESS 3290, Principles of Astronomy (4 s.h.), must be taken by those seeking teacher certification.

Pre-professional students should elect a biology minor.

BIOLOGY

Biology Major: Bachelor of Science (33 s.h.)

REQUIRED MAJOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 2430	Anatomy and Physiology I	3 s.h.
BIO 2440	Anatomy and Physiology II	3 s.h.
BIO 3010	Genetics	4 s.h.
BIO 3210	General Ecology	3 s.h.
BIO 4950	Senior Seminar	2 s.h.
	Major electives	<u>6 s.h.</u>
		33 s.h.

REQUIRED SUPPORT COURSES:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
MTH 1210	Precalculus <i>or</i>	
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2350	Probability and Statistics	3 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		24 s.h.

NSC 2160, Earth Sciences (4 s.h.), required for secondary teacher certification.

A chemistry minor and a cooperative education placement are recommended.

Biology Major with Medical Technology track (4+1)

See listing under CLINICAL LABORATORY SCIENCES/MEDICAL TECHNOLOGY

Biology Minor (20 s.h.)

REQUIRED MINOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	<u>4 s.h.</u>
		20 s.h.

BUSINESS ADMINISTRATION

Business Administration Major: Bachelor of Science (62 s.h.)

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
ACC 3130	Internal Financial Analysis	3 s.h.
BUS 3950	Business and Society	3 s.h.
BL 3330	Business Law I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
MGT 2360	Principles of Management	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.
QS 4220	Tests and Measurements <i>or</i>	
QS 4230	Marketing Research	3 s.h.
	Major electives*	<u>29 s.h.</u>
		62 s.h.

* One course each in the areas of quantitative methods, management, and marketing at the 3000 or 4000 level, plus electives. Program must be developed with an advisor.

REQUIRED SUPPORT COURSES:

ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
MTH 1050	Intermediate Algebra <i>or</i>	
MTH 1210	Precalculus	4-5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability and Statistics	<u>4 s.h.</u>
		20-21 s.h.

Business Administration Major: Associate of Science (30 s.h.)

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
ECN 2720	Principles of Microeconomics	4 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
	Major electives (School of Business Courses)	<u>14 s.h.</u>
		30 s.h.

Business Administration Minor (24 s.h.)

REQUIRED MINOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
CIS 2250	Computer Fundamentals <i>or</i>	
CIS 2380	Introduction to Computers	2-3 s.h.
ECN 2720	Principles of Microeconomics	4 s.h.
	Minor electives (School of Business courses)	<u>14-15 s.h.</u>
		24 s.h.

RECOMMENDED COURSES:

BL 3330	Business Law I	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.

Certificate of Completion in e-Commerce (9 s.h.)

REQUIRED CERTIFICATE COURSES:

BUS 3530	Foundations of e-Commerce	3 s.h.
CIS 2850	Web Design for Business Applications	3 s.h.
MGT 4300	Strategic Planning in an e-Commerce Environment	<u>3 s.h.</u>
		9 s.h.

Case Management

See listings under GERONTOLOGY and LONG TERM CARE ADMINISTRATION.

CHEMISTRY

Chemistry Major: Bachelor of Science (38 s.h.)

REQUIRED MAJOR COURSES:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 3510	Advanced Inorganic Chemistry	4 s.h.
CHM 4410	Physical Chemistry I	4 s.h.
CHM 4420	Physical Chemistry II	4 s.h.
CHM 4510	Instrumental Analysis	4 s.h.
CHM 4950	Senior Seminar	<u>2 s.h.</u>
		38 s.h.

RECOMMENDED ELECTIVES:

CHM 3610	Biochemistry I	4 s.h.
CHM 3620	Biochemistry II	4 s.h.
CHM 4900	Problems in Chemistry	<u>1-4 s.h.</u>
		9-12 s.h.

REQUIRED SUPPORT COURSES (20 s.h.):

CIS 2800	Introduction to Visual Basic Programming	3 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		20 s.h.

NOTE: Students seeking teacher certification are also required to take (1) CHM 3610, Biochemistry I, as part of the major, and (2) ESS 2160, Earth Science, or ESS 3290, Principles of Astronomy, as a support course.

Chemistry Minor (20 s.h.)**REQUIRED MINOR COURSES:**

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II or	
CHM 3610	Biochemistry I	4 s.h.
CHM 3310	Quantitative Analysis	<u>4 s.h.</u>
		20 s.h.

**CHILD DEVELOPMENT**

Transfer students seeking to further their studies in an Early Childhood Education program may have their child care credits evaluated by the department.

Child Development Major: Bachelor of Science (42 s.h.)**REQUIRED MAJOR COURSES:**

CD 2160	Child Development & Guidance	4 s.h.
CD 2650	The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics	4 s.h.
CD 3100	Language Development and Language Arts	3 s.h.
CD 3160	Administration of Child Care Centers	3 s.h.
CD 3580	Developing Curriculum for Early Childhood	3 s.h.
CD 3930	Pre School Practicum	1 s.h.
CD 4100	Philosophies in Early Childhood Education	3 s.h.
CD 4130	Parents and Teachers - Partners in Education	3 s.h.
CD 4160	Assessing Children's Behaviors	2 s.h.
CD 4500	Issues Challenging Children and Families	3 s.h.
CD 4930	Senior Practicum	4 s.h.
CD 4950	Senior Seminar	2 s.h.
FCS 3530	Marriage and the Family	4 s.h.
NFS 2380	Maternal and Child Nutrition	<u>3 s.h.</u>
		42 s.h.

Interim Occupational Certificate (Vocational Authorization) available with a major in Child Development and appropriate work experience. See OCCUPATIONAL CERTIFICATION on page 83.

Child Development Major: Associate of Science (28 s.h.)**REQUIRED MAJOR COURSES:**

CD 2160	Child Development and Guidance	4 s.h.
CD 2650	The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics	4 s.h.
CD 3100	Language Development and Language Arts	3 s.h.
CD 3160	Administration of Child Care Centers	3 s.h.
CD 3580	Developing Curriculum in Early Childhood	3 s.h.
CD 3930	Pre School Practicum*	2 s.h.
NFS 2380	Maternal and Child Nutrition	3 s.h.
	Major electives	<u>6 s.h.</u>
		28 s.h.

*Note: Associate degree students must elect CD 3930 for 2 s.h.

Child Development Minor (22 s.h.)**REQUIRED MINOR COURSES:**

CD 2160	Child Development and Guidance	4 s.h.
CD 2650	The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics	4 s.h.
CD 3100	Language Development and Language Arts	3 s.h.
CD 3580	Developing Curriculum in Early Childhood	3 s.h.
CD 3930	Pre School Practicum*	2 s.h.
CD 4100	Philosophies in Early Childhood Education	3 s.h.
NFS 2380	Maternal and Child Nutrition	<u>3 s.h.</u>
		22 s.h.

*Note: Candidates for the minor must elect CD 3930 for 2 s.h.

Early Childhood Education Minor (25 s.h.)**REQUIRED MINOR COURSES:**

CD 2160	Child Development and Guidance	4 s.h.
CD 2650	The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics	4 s.h.
CD 3100	Language Development and Language Arts	3 s.h.
CD 3580	Developing Curriculum for Early Childhood	3 s.h.
CD 3930	Curriculum Practicum	2 s.h.
CD 4130	Parents and Teachers - Partners in Education	3 s.h.
CD 4160	Assessing Children's Behaviors	2 s.h.
CD 4700	Senior Practicum	3 s.h.
CD 4810	Senior Practicum Seminar	<u>1 s.h.</u>
		25 s.h.

Transfer students seeking to further their studies in a Child Development program may have their child care credits evaluated by the department.

REQUIRED SUPPORT COURSES:

AED 3160	Art for the Elementary Teacher	2 s.h.
ENG 3000	Children's Literature and Drama	4 s.h.
MTH 2330	Learning and Teaching Number Concepts	3 s.h.
MTH 2340	Learning and Teaching Geometric and Statistical Concepts	3 s.h.
MUS 3090	Music for Classroom Teachers	2 s.h.
NSC 3730	Science Foundations I: Chemistry and Life Science	4 s.h.
NSC 3740	Science Foundations II: Earth Science, Physics, and Astronomy	4 s.h.
SSC 3070	Social Studies Foundations	<u>3 s.h.</u>
		25 s.h.

This minor is available only upon completion of the requirements for Elementary (K-8) teacher certification.

CHURCH MUSIC

See listing under MUSIC.

CLINICAL LABORATORY SCIENCES/ MEDICAL TECHNOLOGY

The Clinical Laboratory Sciences/Medical Technology program is designed to prepare the candidate to apply for the internship accredited by any of the four national certification boards. The student must maintain a grade point average of 3.0 or better to be considered for the internship. Madonna University participates in the Medical Technology Internship Matching Program of Michigan (MTIMPM).

Clinical Laboratory Sciences/Medical Technology Major (3+1): Bachelor of Science (32-56 s.h.)

REQUIRED MAJOR COURSES:

AHA 1010 Medical Terminology	2 s.h.
AHA 4900 Fundamentals of Health Care Research	2 s.h.
MTE 2010 Introduction to Health Care Professions	2 s.h.
MTE 3050 Clinical Hematology	4 s.h.
MTE 3070 Immunohematology and Serology	4 s.h.
MTE 3090 Hemostasis and Special Procedures	4 s.h.
MTE 3630 Clinical Chemistry I	3 s.h.
MTE 3650 Clinical Chemistry II	3 s.h.
MTE 4510 Clinical Internship I	2-10 s.h.
MTE 4520 Clinical Internship II	2-10 s.h.
MTE 4530 Clinical Internship III	2-10 s.h.
MTE 4950 Senior Seminar	<u>2 s.h.</u>
	32-56 s.h.

Note: Students in the MTE 4510, 4520, 4530 internship sequence, which is in a NAACLS-accredited internship approved by the Medical Technology Internship Matching Program of Michigan (MTIMPM), register for a minimum of 2 s.h. of credit each semester they are in the internship.

Students who choose to substitute the NCA-accredited internship register for the following courses:

MTE 3930 Clinical Internship I	4 s.h.
MTE 3940 Clinical Internship II	<u>4 s.h.</u>
	8 s.h.

REQUIRED SUPPORT COURSES:

BIO 2260 Microbiology	4 s.h.
BIO 2430 Anatomy and Physiology I	3 s.h.
BIO 2440 Anatomy and Physiology II	3 s.h.
BIO 3280 Immunology	4 s.h.
BIO 4270 Clinical Bacteriology	4 s.h.
CHM 1110 General Chemistry I	4 s.h.
CHM 1120 General Chemistry II	4 s.h.
CHM 2210 Organic Chemistry I	4 s.h.
CHM 3610 Biochemistry I	4 s.h.
MTH 1050 Intermediate Algebra	4 s.h.
MTH 2350 Probability and Statistics	<u>4 s.h.</u>
	42 s.h.

RECOMMENDED ELECTIVES:

Because of the selection criteria in the competitive clinical placement market, students who tell us they plan to apply to the more selective clinical placements are advised to add the following course work to their plans:

BIO 3010 Genetics	4 s.h.
BIO 3170 Invertebrate Zoology (Parasitology) <i>or</i>	
BIO 3500 Medical Mycology	4 s.h.
BIO 4140 Molecular Biology	<u>3 s.h.</u>
	11 s.h.

NAACLS-accredited Medical Technology (CLS) internship are full-time. NCA-accredited Medical Technology (CLS) internship may be full-time or part-time. Graduates are eligible to write the CLS, HT, or HTL examination upon successful completion of the internship.

Clinical Laboratory Sciences/Medical Technology Post-Bachelor Certificate of Completion (20 s.h.)

Applicants for the post-bachelor certificate must provide transcript evidence of completion of Biology, Chemistry, and Mathematics courses required by the appropriate credentialing agency. International applicants must provide an evaluation of foreign educational credentials (WES recommended) prior to enrollment in the program. Applications for this service are available on the web at www.wes.org or from the Health Sciences office.

REQUIRED CERTIFICATE COURSES:

AHA 1010 Medical Terminology	2 s.h.
MTE 3050 Clinical Hematology	4 s.h.
MTE 3070 Immunohematology and Serology	4 s.h.
MTE 3090 Hemostasis and Special Procedures	4 s.h.
MTE 3630 Clinical Chemistry I	3 s.h.
MTE 3650 Clinical Chemistry II	<u>3 s.h.</u>
	20 s.h.

For information on the clinical internship to be applied for on completion of the certificate, please see notes under Clinical Laboratory Sciences/Medical Technology: Bachelor of Science.

Categorical Curricula

Students who plan to apply for internships that prepare them for CLS categorical examinations, for instance, the chemistry categorical examination, C(ASCP), the microbiology categorical examination, M(ASCP), the histotechnology categorical examination, H(ASCP), or the cytotechnology categorical examination, CT(ASCP), will need to add additional coursework to qualify for an accredited internship. Please see the Health Sciences advisor in Room 1400 for information.

Biology Major with Clinical Laboratory Sciences track (4+1): Bachelor of Science (43 s.h.)

This program is designed to prepare the candidate to apply for the internship accredited by any of the four national certification boards.

Students who elect the medical technology program follow an approved plan of work and must maintain a grade point average of 3.0 or better to be considered for the internship. Madonna University participates in the Medical Technology Internship Matching Program of Michigan (MTIMP).

REQUIRED BIOLOGY MAJOR COURSES:

BIO 1030 General Biology I	4 s.h.
BIO 1040 General Biology II	4 s.h.
BIO 2260 Microbiology	4 s.h.
BIO 2430 Anatomy and Physiology I	3 s.h.
BIO 2440 Anatomy and Physiology II	3 s.h.
BIO 3010 Genetics	4 s.h.
BIO 3170 Invertebrate Zoology (Parasitology)	4 s.h.
BIO 3280 Immunology	4 s.h.
BIO 3500 Medical Mycology	4 s.h.
BIO 4270 Clinical Bacteriology	4 s.h.
BIO 4410 Molecular Biology	3 s.h.
BIO 4950 Senior Seminar	<u>2 s.h.</u>
	43 s.h.

REQUIRED MTE SUPPORT COURSES:

AHA 1010 Medical Terminology	2 s.h.
MTE 2010 Introduction to Health Care Professions	2 s.h.
MTE 3050 Clinical Hematology	4 s.h.
MTE 3070 Immunohematology and Serology	4 s.h.
MTE 3090 Hemostasis and Special Procedures	4 s.h.
MTE 3630 Clinical Chemistry I	3 s.h.
MTE 3650 Clinical Chemistry II	<u>3 s.h.</u>
	22 s.h.

REQUIRED SUPPORT COURSES:

CHM 1110 General Chemistry I	4 s.h.
CHM 1120 General Chemistry II	4 s.h.
CHM 2210 Organic Chemistry I	4 s.h.
CHM 3610 Biochemistry I	4 s.h.
MTH 1210 Precalculus	5 s.h.
MTH 2350 Probability and Statistics	4 s.h.
PHY 2530 General Physics I	4 s.h.
PHY 2540 General Physics II	<u>4 s.h.</u>
	33 s.h.

NAACLS-accredited Medical Technology (CLS) internship are full-time. NCA-accredited Medical Technology (CLS) internship may be full-time or part-time. Graduates are eligible to write the CLS or HTL examination upon successful completion of the internship.

CLINICAL LABORATORY TECHNICIAN

Clinical Laboratory Technician Major: Associate of Applied Science (30 s.h.)

REQUIRED MAJOR COURSES:

AHA 1010 Medical Terminology	2 s.h.
MTE 2010 Introduction to Health Care Professions	2 s.h.
MTE 3050 Clinical Hematology	4 s.h.
MTE 3070 Immunohematology and Serology	4 s.h.
MTE 3090 Hemostasis and Special Procedures	4 s.h.
MTE 3630 Clinical Chemistry I	3 s.h.
MTE 3650 Clinical Chemistry II	3 s.h.
MTE 3930 Clinical Internship I	4 s.h.
MTE 3940 Clinical Internship II	<u>4 s.h.</u>
	30 s.h.

REQUIRED SUPPORT COURSES:

BIO 2260 Microbiology	4 s.h.
BIO 2430 Anatomy and Physiology I	3 s.h.
BIO 2440 Anatomy and Physiology II	3 s.h.
BIO 4270 Clinical Bacteriology	4 s.h.
CHM 1010 or 1110 General Chemistry I	4 s.h.
CHM 1610 Introduction to Life Chemistry	4 s.h.
MTH 1050 Intermediate Algebra	<u>4 s.h.</u>
	26 s.h.

Internship applications for Histotechnician and Medical Laboratory Technician (CLT) are accepted in October and in January prior to anticipated internship beginning date. Medical Laboratory Technician (MLT/CLT) internship may be full-time or part-time. Graduates are eligible to write the NCA(CLT) certification examination upon successful completion of the internship. Histotechnician (HT) internship are full-time. Graduates are eligible to write the HT(ASCP) certification examination upon successful completion of the internship.

Clinical Laboratory Technician Major: Bachelor of Applied Science (34 s.h.)

REQUIRED MAJOR COURSES:

AHA 1010 Medical Terminology	2 s.h.
AHA 4900 Fundamentals of Health Care Research	2 s.h.
MTE 2010 Introduction to Health Care Professions	2 s.h.
MTE 3050 Clinical Hematology	4 s.h.
MTE 3070 Immunohematology and Serology	4 s.h.
MTE 3090 Hemostasis and Special Procedures	4 s.h.
MTE 3630 Clinical Chemistry I	3 s.h.
MTE 3650 Clinical Chemistry II	3 s.h.
MTE 3930 Clinical Internship I	4 s.h.
MTE 3940 Clinical Internship II	4 s.h.
MTE 4950 Senior Seminar	<u>2 s.h.</u>
	34 s.h.

REQUIRED SUPPORT COURSES:

BIO 2260 Microbiology	4 s.h.
BIO 2430 Anatomy and Physiology I	3 s.h.
BIO 2440 Anatomy and Physiology II	3 s.h.
BIO 4270 Clinical Bacteriology	4 s.h.
CHM 1010 or 1110 General Chemistry I	4 s.h.
CHM 1610 Introduction to Life Chemistry	4 s.h.
MTH 1050 Intermediate Algebra	<u>4 s.h.</u>
	26 s.h.

RECOMMENDED ELECTIVES:

AHA 4250 Health Care Law and Public Policy	3 s.h.
AHA 4740 Health Care Finance	3 s.h.
AHA 4760 Issues in Health Care Administration	3 s.h.
MGT 2360 Principles of Management	3 s.h.
MGT 3160 Human Behavior and Leadership	2 s.h.
MGT 3750 Allied Health Management	<u>3 s.h.</u>
	17 s.h.

Internship applications for Histotechnician and Medical Laboratory Technician (CLT) are accepted in October prior to anticipated internship beginning date. Medical Laboratory Technician (MLT/CLT) internship may be full-time or part-time. Graduates are eligible to write the NCA(CLT) certification examination upon successful completion of the internship. Histotechnician (HT/HTL) internships are full-time. Graduates are eligible to write the HT/HTL(ASCP) certification examination upon successful completion of the internship.

COMMUNICATION ARTS FOR SECONDARY TEACHERS

This major is designed for students planning to enter the grades 7-12 Teacher Education Program. Students who wish to develop a media major for work in corporate and similar settings are referred to the Writing and Media Studies major.

Communication Arts Major for Secondary Teachers: Bachelor of Arts (40 s.h.)

REQUIRED MAJOR COURSES:

SPH 1050 Speech Communication	3 s.h.
JRN 1320 Newspaper Reporting	3 s.h.
SPH 2550 Oral Interpretation of Literature	3 s.h.
ENG 2620 Language and Culture	3 s.h.
ENG 2090 Approaches to Grammar for Educators	4 s.h.
ENG 3260 Business and Professional Writing	3 s.h.
SPH 3300 Public Speaking: Theory and Practice <i>or</i>	
SPH 3410 Acting Techniques I	3-4 s.h.
TVC 3510 Television Production Techniques I	3 s.h.
TVC 3810 Field Production and Editing	3 s.h.
JRN 4010 Foundations of Mass Communication	3 s.h.
ENG 3960 and 4960 Portfolio I and II <i>or</i>	
HUM 4960 Senior Seminar	3 s.h.
Electives, to be chosen from:	5-6 s.h.
TVC 2510 Survey of Telecommunications (3 s.h.)	
JRN 3160 Newspaper Production (2 s.h.)	
SPH 3420 Acting Techniques II (3 s.h.)	
TVC 3520 Television Production Techniques II (3 s.h.)	
JRN 3570 Editing and Copyreading (3 s.h.)	
JRN 4750 Desktop Publishing (1 s.h.)	
	<u>40 s.h.</u>

Students must complete an English minor for teacher certification with this major.

COMMUNITY LEADERSHIP

Community Leadership Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

SOC 1300	Introduction to Community Leadership	1 s.h.
SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
RST 3100	Franciscan Values, Social Justice, and Service	3 s.h.
MGT 3160	Human Behavior and Leadership	2 s.h.
SOC 4890	Seminar in Community Leadership	3 s.h.
	Additional service learning course in student's major:	<u>2 s.h.</u>
		15 s.h.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Major: Bachelor of Science (62 s.h.)

REQUIRED MAJOR COURSES:

CIS 2430	Introduction to Programming Design	3 s.h.
CIS 2800	Introduction to Visual BASIC Programming	3 s.h.
CIS 2910	Cooperative Education I	1 s.h.
CIS 2950	Networks and Data Communications	3 s.h.
CIS 3450	Systems Analysis and Design	3 s.h.
CIS 3480	Data Structures	3 s.h.
CIS 3850	Database Design and Management	3 s.h.
CIS 3880	Query Languages: SQL, Oracle	3 s.h.
CIS 3910	Cooperative Education II	1 s.h.
CIS 4890	Information Systems Project Management	2 s.h.
CIS 4900	Information Systems Policy	3 s.h.
	Major electives, to be chosen from:	15 s.h.
	CIS 2480 Programming Applications: COBOL (3 s.h.)	
	CIS 2850 Web Design for Business Applications (3 s.h.)	
	CIS 3420 Computer Graphics in Business (2 s.h.)	
	CIS 3640 Introduction to Software Engineering (3 s.h.)	
	CIS 3800 Advanced Visual Basic Programming (3 s.h.)	
	CIS 4100 e-Commerce Information Technology Fundamentals (3 s.h.)	
	CIS 4320 Audit and Control of Accounting and Information Systems (3 s.h.)	
	CIS 4710-4750 Seminars in Computer Information Systems (1-3 s.h.)	
	CIS 4910 Cooperative Education III (1 s.h.)	
	CSC 3350 Java Programming: C (3 s.h.)	
		<u>43 s.h.</u>

Required Business Courses (see below) 19 s.h.
62 s.h.

REQUIRED BUSINESS COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ACC 3400	Accounting Information Systems	4 s.h.
BUS 3950	Business and Society	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
QS 3550	Applied Business Statistics	<u>3 s.h.</u>
		19 s.h.

REQUIRED SUPPORT COURSES:

CIS 2380	Introduction to Computers	3 s.h.
ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
MTH 1050	Intermediate Algebra or	
MTH 1210	Precalculus	4-5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability and Statistics	<u>4 s.h.</u>
		23-24 s.h.

Computer Information Systems Minor (24 s.h.)

REQUIRED MINOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
CIS 2430	Introduction to Business Application Programming	3 s.h.
CIS 2800	Introduction to Visual Basic Programming	3 s.h.
CIS 2910	Cooperative Education I	1 s.h.
	Minor electives	<u>11 s.h.</u>
		24 s.h.

CNA, CNE, or MCSE Elective Credit Option, CIS Majors and Minors (1-4 s.h.)

Students in CIS programs who bring validated certification as a Certified Novell Administrator (CNA), Certified Novell Engineer (CNE), or Microsoft Certified Systems Engineer (MCSE) may request review for Prior Learning Credit of 1 to 4 semester hours, which is applicable as CIS elective credit. (See the University Policies section of the Bulletin for information on Prior Learning credit.)

Computer Technology Major: Associate of Science (30 s.h.)

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
CIS 2430	Introduction to Business Application Programming	3 s.h.
CIS 2800	Introduction to Visual Basic Programming	3 s.h.
CIS 2910	Cooperative Education I	1 s.h.
ECN 2720	Principles of Microeconomics	4 s.h.
	Major electives	<u>13 s.h.</u>
		30 s.h.

Certificate of Completion in e-Commerce (9 s.h.)

REQUIRED CERTIFICATE COURSES:

BUS 3530	Foundations of e-Commerce	3 s.h.
MGT 2850	Web Design for Business Applications	3 s.h.
MGT 4300	Strategic Planning in an e-Commerce Environment	<u>3 s.h.</u>
		9 s.h.

COMPUTER SCIENCE

Computer Science Major: Bachelor of Science (38 s.h.)

REQUIRED MAJOR COURSES:

CSC 2010	Web Fundamentals	3 s.h.
CSC 2080	Computer Science I	3 s.h.
CSC 2480	Computer Science II	3 s.h.
CSC 2910	Cooperative Education in Operations	1 s.h.
CSC 3030	Operating Systems	3 s.h.
CSC 3050	Computer Architecture	3 s.h.
CSC 3280	Analysis of Algorithms	3 s.h.
CSC 3290	Programming Language Concepts	3 s.h.
CSC 3910	Cooperative Education in Software	1 s.h.
CSC 4130	Language Theory	3 s.h.
CSC 4850	Seminar: Computers and Society	3 s.h.
	Core electives (select minimum of 9 s.h.):	9 s.h.
	CSC 2350 Web Programming (3 s.h.)	
	CSC 3010 Numerical Analysis for Computer Science (3 s.h.)	
	CSC 3350 Java Programming (3 s.h.)	
	CSC 3490 Artificial Intelligence (3 s.h.)	
	MTH 3410 Linear Algebra (3 s.h.)	
	PHY 4510 Electronics: Digital Techniques (4 s.h.)	
	CIS 3800 Advanced Visual Basic (3 s.h.)	
	CIS 3850 Data Base Management (3 s.h.)	
		<u>38 s.h.</u>

REQUIRED SUPPORT COURSES:

MTH 2510	Calculus with Analytic Geometry I*	5 s.h.
MTH 2520	Calculus with Analytic Geometry II*	4 s.h.

* Both courses must be completed with a grade of C or better within the first 20 hours of the Computer Science major.

Computer Science Major: Associate of Science (30-32 s.h.)

30-32 hours from required courses listed above (except Cooperative Education courses, which may be taken as electives).

Computer Science Minor (21 s.h.)**REQUIRED MINOR COURSES:**

CSC 2010	Web Fundamentals	3 s.h.
CSC 2080	Computer Science I	3 s.h.
CSC 2480	Computer Science II	3 s.h.
CSC 3050	Computer Architecture	3 s.h.
CSC 3290	Programming Language Concepts	3 s.h.
Core electives, select 2 courses from:		6 s.h.
CSC 2350	Web Programming (3 s.h.)	
CSC 3030	Operating Systems (3 s.h.)	
CSC 3350	Java Programming (3 s.h.)	
CIS 3800	Advanced Visual Basic (3 s.h.)	
MTH 2520	Calculus with Analytic Geometry II (4 s.h.)	
		21 s.h.

REQUIRED SUPPORT COURSE:

MTH 2510	Calculus with Analytic Geometry I	5 s.h.
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Computer Science Major for Teacher Certification: Bachelor of Science (31 s.h.)**REQUIRED MAJOR COURSES:**

CSC 2010	Web Fundamentals	3 s.h.
CSC 2080	Computer Science I	3 s.h.
CSC 2480	Computer Science II	3 s.h.
CSC 2910	Cooperative Education in Operations	1 s.h.
CSC 3030	Operating Systems	3 s.h.
CSC 3280	Analysis of Algorithms	3 s.h.
CSC 3290	Programming Language Concepts	3 s.h.
CSC 4850	Seminar: Computers and Society	3 s.h.
Major electives, must include at least one programming language course; to be chosen from:		9 s.h.
CSC 2350	Web Programming (3 s.h.)	
CSC 3050	Computer Architecture (3 s.h.)	
CSC 3350	Java Programming (3 s.h.)	
CSC 3490	Artificial Intelligence (3 s.h.)	
CSC 3910	Cooperative Education in Software (1 s.h.)	
CSC 4130	Language Theory (3 s.h.)	
CIS 3800	Advanced Visual Basic (3 s.h.)	
CIS 3850	Data Base Management (3 s.h.)	
		31 s.h.

REQUIRED SUPPORT COURSE:

MTH 2300	Business Calculus or	
MTH 2510	Calculus with Analytic Geometry I	4-5 s.h.

Computer Science Minor for Teacher Certification (24 s.h.)**REQUIRED MINOR COURSES:**

CSC 2010	Web Fundamentals	3 s.h.
CSC 2080	Computer Science I	3 s.h.
CSC 2480	Computer Science II	3 s.h.
CSC 3290	Programming Language Concepts	3 s.h.
CSC 4850	Seminar: Computers and Society	3 s.h.
Core electives, must include at least one programming course; to be chosen from:		9 s.h.
CSC 2350	Web Programming (3 s.h.)	

CSC 2910 or 3910	Cooperative Education (1 s.h.)
CSC 3030	Operating Systems (3 s.h.)
CSC 3050	Computer Architecture (3 s.h.)
CSC 3280	Analysis of Algorithms (3 s.h.)
CSC 3350	Java Programming (3 s.h.)
CSC 3490	Artificial Intelligence (3 s.h.)
CSC 4130	Language Theory (3 s.h.)
CIS 3800	Advanced Visual Basic (3 s.h.)
CIS 3850	Data Base Management (3 s.h.)

24 s.h.

Note: For the most up-to-date degree requirements and course information, please visit the Computer Science Program website at acs.madonna.edu/csc.

COMPUTER TECHNOLOGY

See listing under COMPUTER INFORMATION SYSTEMS.

CRIMINAL JUSTICE**Criminal Justice Major: Bachelor of Science (45 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	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 2650	Criminal Law	3 s.h.
CJ 3050	Criminal Procedure	3 s.h.
CJ 3210	Principles of Criminology	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
CJ 4110	Ethics in Criminal Justice	3 s.h.
CJ 4950	Senior Seminar	3 s.h.
Major electives, to be chosen from:		9 s.h.
CJ 1240	Introduction to Private Investigations (3 s.h.)	
CJ 1250	Introduction to Private Security (3 s.h.)	
CJ 3110	Criminal Investigation (3 s.h.)	
CJ 3500	Homeland Security and Terrorism (3 s.h.)	
CJ 3550	Parole and Probation (3 s.h.)	
CJ 3820	Forensic Psychology (PSY*) (3 s.h.)	
CJ 4050	Constitutional Law (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 4230	Homicide Investigation (3 s.h.)	
CJ 4750	Special Topics in Criminal Justice (3 s.h.)	
		45 s.h.

At least 21 hours of criminal justice courses, including CJ 4950, Criminal Justice Senior Seminar, must be completed at Madonna University.

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	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 2650	Criminal Law	3 s.h.
CJ 3210	Principles of Criminology	3 s.h.
CJ 3230	Juvenile Justice	<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	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 3210	Principles of Criminology	3 s.h.
CJ 3230	Juvenile Justice	<u>3 s.h.</u>
		21 s.h.

Criminal Justice Certificate of Achievement (30 s.h.)

REQUIRED CERTIFICATE 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	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 2650	Criminal Law	3 s.h.
CJ 3210	Principles of Criminology	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
ENG 1010	Communication Skills I	3 s.h.
	Major electives	<u>3 s.h.</u>
		30 s.h.

Homeland Security Certificate of Completion (15 s.h.)

REQUIRED CERTIFICATE COURSES:

CJ 1020	Introduction to Criminal Justice	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 3210	Principals of Criminology	3 s.h.
CJ 3110	Criminal Investigation	3 s.h.
CJ 3500	Homeland Security and Terrorism	<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 Investigations	3 s.h.
CJ 2350	American Judicial Process	3 s.h.
CJ 2400	Interviewing and Investigative Report Writing	3 s.h.
CJ 3110	Criminal Investigation	<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 2400	Interviewing and Investigative Report Writing	<u>3 s.h.</u>
		9 s.h.

Forensic Psychology Certificate of Completion (17 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 3420	Abnormal Psychology	4 s.h.
PSY 3820	Forensic Psychology (CJ/FOR)	3 s.h.
PSY 4220	Theories of Personality	<u>4 s.h.</u>
		17 s.h.

DEMENTIA CARE

See listing under GERONTOLOGY.

DIETETICS

Dietetics Major (ADA Accredited / Didactic Program): Bachelor of Science (42 s.h.)

REQUIRED MAJOR COURSES:

NFS 2250	Human Nutrition	4 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 2760	Food Service Sanitation	2 s.h.
NFS 3250	Clinical Nutrition I	4 s.h.
NFS 3260	Advanced Food Science	4 s.h.
NFS 3380	Methods in Nutrition Education	3 s.h.
NFS 3460	Food Service Management I	3 s.h.
NFS 4250	Advanced Human Nutrition	4 s.h.
NFS 4380	Community Nutrition	2 s.h.
NFS 4420	Clinical Nutrition II	2 s.h.
NFS 4460	Food Service Management II	3 s.h.
NFS 4950	Senior Seminar	2 s.h.
	Major electives*	<u>5 s.h.</u>
		42 s.h.

* Major electives may be selected from all NFS courses.

REQUIRED SUPPORT COURSES:

BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 3610	Biochemistry I	4 s.h.
CIS 2380	Introduction to Computers	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MTH 2350	Probability and Statistics	4 s.h.
SOC 1010	Intro. to Sociology and Cultural Anthropology	<u>4 s.h.</u>
		34 s.h.

E-COMMERCE

See listing under BUSINESS ADMINISTRATION.

EARLY CHILDHOOD EDUCATION

See listing under CHILD DEVELOPMENT.

EAST/CENTRAL EUROPEAN STUDIES

See listing under POLISH STUDIES.

EDUCATION

The Madonna University elementary and secondary teacher preparation programs are approved by the Michigan Department of Education and accredited by the National Council for Accreditation of Teacher Education (NCATE). The University recommends students for both provisional (initial) certification and the Professional Education Certificate, as well as for additional endorsements to existing certificates. The University also recommends students for Occupational Certificates (Vocational Authorizations) in Trade and Technical areas, Health Occupations, and Family and Consumer Sciences.

The Michigan Department of Education requests that we report on institutional test results for teacher certification candidates. Information may be obtained from the College of Education website or from the college advisors.

Madonna University reserves the right to change program requirements to remain in compliance with changes in the State certification code.

Initial (Provisional) Teacher Certification Programs

Students may complete requirements for either elementary provisional certification (K-8) or secondary provisional certification (7-12). Majors in Visual Arts Education or Music Education lead to K-12 endorsements on the basic teaching certificate.

Students who are contemplating a teaching career are required to meet with an education department advisor immediately after being admitted to the University, since the following four sets of requirements must be met):

1. **GENERAL EDUCATION** (see pages 50-51). Note that the following courses in General Education are to be included in the programs of teacher education students according to their prospective level of certification:

SECONDARY CERTIFICATION:

SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
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ELEMENTARY CERTIFICATION:

ENG 3000	Children's Literature and Drama	4 s.h.
NSC 3730	Science Foundations I: Chemistry and Life Science	4 s.h.
NSC 3740	Science Foundations II: Astronomy, Earth Science, and Physics	4 s.h.
PSC 2510	American Government* <i>or</i>	
GEO 3010	World Regional Geography	4 s.h.
SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.

*Note: elementary candidates who did not attend high school in the United States must take PSC 2510, American Government.

2. **TEACHING MAJOR.** Must be selected from the listing of Madonna University Teacher Education Programs.

3. **TEACHING MINOR.** Secondary candidates must select a minor from the Madonna University Teacher Education Programs. (This rule does not apply to candidates with majors, designated comprehensive majors, in Visual Arts Education, Music Education, or Integrated Science/Secondary.) Elementary candidates must complete either the Elementary Curriculum minor (following) *or* the Early Childhood Education minor (page 57).

The ELEMENTARY CURRICULUM MINOR consists of the following courses:

AED 3160	Art for the Elementary School Teacher	2 s.h.
ENG/SPH 3000	Children's Literature and Drama	4 s.h.
EDU 3350	Language Arts and Linguistics Foundations	3 s.h.
MTH 2330	Learning and Teaching Number Concepts	3 s.h.
MTH 2340	Learning and Teaching Geometric and Statistical Concepts	3 s.h.
MUS 3090	Music for the Classroom Teacher	2 s.h.
NSC 3730	Science Foundations I: Chemistry and Life Science	4 s.h.
NSC 3740	Science Foundations II: Earth Science, Physics, and Astronomy	4 s.h.
SSC 3070	Social Studies Foundations	3 s.h.
		28 s.h.

4. **THE PROFESSIONAL EDUCATION SEQUENCE** consists of the following courses:

EDU 2000	Introduction to Professional Education Experiences	3 s.h.
	<i>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.</i>	
EDU 3120	Educational Psychology	4 s.h.
EDU 3210	Theory and Principles of Reading Instruction (elementary)	3 s.h.
EDU 3300	The Exceptional Learner in the Classroom	3 s.h.
EDU 3460	Instructional Media	2 s.h.
EDU 4220	Reading in the Content Areas (elementary)	3 s.h.
EDU 4250	Literacy Education in the Secondary School	4 s.h.
EDU 4400*	Behavior Management in the Classroom	2 s.h.
	Theory and Techniques of Instruction, to be chosen from:	4 s.h.
EDU 4500	Theory and Techniques of Instruction: Elementary School (K-8) (4 s.h.)	
EDU 4510	Theory and Techniques of Instruction: Art (K-12) (4 s.h.)	
EDU 4520	Theory and Techniques of Instruction: Communication Arts (7-12) (4 s.h.)	
EDU 4530	Theory and Techniques of Instruction: Foreign Languages (7-12) (4 s.h.)	
EDU 4540	Theory and Techniques of Instruction: Vocational Family and Consumer Sciences (7-12) (4 s.h.)	
EDU 4550	Theory and Techniques of Instruction: Mathematics (7-12) (4 s.h.)	
EDU 4560	Theory and Techniques of Instruction: Music (K-12) (4 s.h.)	
EDU 4570	Theory and Techniques of Instruction: Science (7-12) (4 s.h.)	
EDU 4580	Theory and Techniques of Instruction: Social Science (7-12) (4 s.h.)	
EDU 4590	Theory and Techniques of Instruction: Vocational Subjects (9-12) (4 s.h.)	
EDU 4610	Theory and Techniques of Instruction: Computer Science (7-12) (4 s.h.)	

(more)

Directed Teaching, <i>to be chosen from:</i>	8 s.h.
EDU 4680 Directed Teaching: Computer Science (7-12) (8 s.h.)	
EDU 4700 Directed Teaching: Elementary School (K-8) (6, 8 s.h.)	
EDU 4710 Directed Teaching: Art (K-12) (8 s.h.)	
EDU 4720 Directed Teaching: Communication Arts (7-12) (8 s.h.)	
EDU 4730 Directed Teaching: Foreign Languages (7-12) (8 s.h.)	
EDU 4740 Directed Teaching: Vocational Family and Consumer Sciences (7-12) (8 s.h.)	
EDU 4750 Directed Teaching: Mathematics (7-12) (8 s.h.)	
EDU 4760 Directed Teaching: Music (K-12) (8 s.h.)	
EDU 4770 Directed Teaching: Science (7-12) (8 s.h.)	
EDU 4780 Directed Teaching: Social Science (7-12) (8 s.h.)	
EDU 4790 Directed Teaching: Vocational/Technical (9-12) (8 s.h.)	
EDU 4800 Foundations of Education	3 s.h.
EDU 4810 Seminar: Directed Teaching	<u>1 s.h.</u>
	36 s.h.

*Not required with completion of the Early Childhood Education minor.

K-12 Programs:

All candidates for certification in Visual Arts Education or Music Education must fulfill requirements for K-12 endorsement on their certificate (either secondary or dual elementary/secondary) and therefore must have methods and directed teaching experiences at both levels.

Example: Dual Elementary/Secondary Certification with K-12 Endorsement in Visual Arts Education or Music Education:

EDU 4500 Theory and Techniques of Instruction: Elementary School (K-8) and	4 s.h.
EDU 4510.03 Theory and Techniques of Instruction: Art (K-12) or	3 s.h.
EDU 4560.03 Theory and Techniques of Instruction: Music (K-12)	2 s.h.
EDU 4700 Directed Teaching: Elementary School (K-8) and	4 s.h.
EDU 4710 Directed Teaching: Art (K-12) or	
EDU 4760 Directed Teaching: Music (K-12)	8 s.h.

Example: Secondary Certification with K-12 Endorsement in Visual Arts Education or Music Education:

EDU 4510 Theory and Techniques of Instruction: Art (K-12) or	
EDU 4560 Theory and Techniques of Instruction: Music (K-12)	4 s.h.
EDU 4710 Directed Teaching: Art (K-12) or	
EDU 4760 Directed Teaching: Music (K-12)	8 s.h.

MADONNA UNIVERSITY
TEACHER EDUCATION PROGRAMS
Approved by the Michigan Department of Education
Accredited by the National Council for
Accreditation of Teacher Education

	ELEMENTARY (K-8)		SECONDARY (7-12)	
	Major	Minor	Major	Minor
Art (Visual Arts Education, K-12)			C	
Biology			X	X
Chemistry			X	X
Communication Arts for Secondary Teachers			G	
Computer Science			X	X
Early Childhood Education		X		
English	X	X	X	X
Family and Consumer Sciences	X		X	
Family and Consumer Sciences (Vocational)	X			
General Science	G			
History	X	X	X	X
Integrated Science			C	
Journalism		X		X
Language Arts (for Elementary Teachers)	X			
Mathematics			X	X
Mathematics for Elementary Certification	X	X		
Music Education, K-12			C	
Physics				X
Political Science		X		X
Social Studies	G		G	
Sociology	X			X
Spanish	X	X	X	X
Speech		X		X

X = Major, minimum 30 s.h.; minor, minimum 20 s.h.

G = Group Major, minimum 36 s.h.; group minor, minimum 24 s.h.

C = Comprehensive Major, minimum 50 s.h.

Admission to the Teacher Education Program:

Students planning to pursue a program in teacher education take the following steps:

- Declare intention of preparing for the profession of teaching either on the elementary or secondary level at the time of application to the University.
- Apply for admission 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. 2.75 or higher grade point average, both cumulative and in the major;
 2. completion of ENG 1010 and ENG 1020 (or equivalents) with a grade of C or better;
 3. completion of 3 semester hours of EDU 2000 with a grade of C or better;
 4. satisfactory completion of Madonna's Teacher Education Program Basic Skills Tests (Praxis I), taken during semester of enrollment in EDU 2000;

5. satisfactory completion of the Basic Skills portion of the Michigan Test for Teacher Certification (MTTC), taken during the semester of enrollment in EDU 2000;
6. completed application form (including speech analysis);
7. two recommendations from university faculty (one from major area) testifying to personal integrity, emotional stability, and social and academic competence.

Applications for admission to the Teacher Education Program are reviewed and approved by the Teacher Education Committee.

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.

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 2.75 or better, both cumulative and in the major;
2. attainment of a grade of C or better in professional education courses, major, minor, or planned program (note that completion of four of the required professional education courses requires prior admission 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.

Admission 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 2.75 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 Test for Teacher Certification (MTTC), and of the state-mandated CPR/First Aid certification, is also required.

Programs for Certified Teachers

The following programs are of particular interest to those certified teachers wishing to complete an 18-hour planned program for the Professional Education Certificate and to those individuals who wish to add another teaching endorsement to their current teaching certificate:

1. EARLY CHILDHOOD (ZA) ENDORSEMENT

The ZA endorsement be earned at either a post-bachelor or graduate level. Please see the Graduate Bulletin under Master of Arts in Teaching and Learning for the graduate program. The post-bachelor program requires:

CD 2160	Child Development and Guidance	4 s.h.
CD 2650	The Role of Content in Early Childhood: Art, Music, Play, Movement, Science, and Mathematics	4 s.h.
CD 3100	Language Development and Language Arts	3 s.h.
CD 3580	Developing Curriculum for the Preschool Child	3 s.h.
CD 3930	Curriculum Practicum (<i>taken with</i> CD 3580)	1 s.h.
CD 4130	Parents and Teachers: Partners in Education	3 s.h.
CD 4160	Assessing Children's Behavior	<u>2 s.h.</u>
		20 s.h.

2. **LEVEL CHANGES.** To add elementary certification to a secondary certificate or secondary certification to an elementary certificate, the student must complete requirements of the requested certification.

3. **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.
4. **EDUCATIONAL TECHNOLOGY (NP) ENDORSEMENT.** See the Graduate Bulletin for a description of this program.
5. **LEARNING DISABILITIES ENDORSEMENT.** See the Graduate Bulletin for a description of this program.
6. **READING SPECIALIST K-12 (BR) ENDORSEMENT.** See the Graduate Bulletin, under Literacy Education, for a description of this program.
7. **ENGLISH AS A SECOND LANGUAGE (NS) ENDORSEMENT.** See the Graduate Bulletin under English Program, Teaching English to Speakers of Other Languages, for a description of this program.
8. **SCHOOL ADMINISTRATOR PROGRAMS.** See the Graduate Bulletin under Educational Leadership and under Catholic School Leadership for a description of these programs.

For all Planned Programs, the student must take a minimum of 12 s.h. 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 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. Graduate credit is not required by the Michigan Department of Education for Professional Education certificates or for most endorsement programs. However, all teachers are referred to the Graduate Bulletin for a full listing of graduate programs suitable for teachers working toward the Professional Education certificate. Teachers who earned their Michigan Provisional certificate through Madonna University pay undergraduate tuition for College of Education master degree programs.

ELDERCARE PRACTICE

See listing under GERONTOLOGY.

ELEMENTARY CURRICULUM MINOR

See page 63.

EMERGENCY MEDICAL TECHNOLOGY

The University offers experiential learning credits for completion of Basic EMT as evidenced by current State of Michigan licensure. Experiential learning credits in EMT may be used to satisfy the biological science requirement with lab under General Education for majors in Fire Science, in Occupational Safety, Health, and Fire Science, and in Allied Health Administration.

Application for Basic EMT credits is to be made through the Fire Science/Occupational Health, Safety, and Fire Science Program Coordinator in the Department of Physical and Applied Sciences, or the Allied Health Administration Program Coordinator in the Department of Biological and Health Sciences.

ENGLISH

See also offerings in: **Communication Arts for Secondary Teachers, English/ Journalism, Journalism and Public Relations, Language Arts, Professional and Technical Writing, Speech Communication, Television and Video Communications, and Writing and Media Studies.**

English Major: Bachelor of Arts (36 s.h., 28 s.h. in literature)

REQUIRED MAJOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
ENG 3010	Major American Writers: Beginnings to 1900 <i>or</i>	
ENG 3020	Major American Writers: 1900 to Present	4 s.h.
ENG 3610	Major British Writers: Chaucer to Johnson <i>or</i>	
ENG 3620	Major British Writers: Blake to Eliot	4 s.h.
ENG 3540	American Folklore and Literature <i>or</i>	
ENG 4540	Classics of African-American Literature <i>or</i>	
ENG 4550	Voices of Pluralism in American Literature	4 s.h.
ENG 4750, 4760	Studies in Literature	4 s.h.
ENG 3960 <i>and</i> 4960	Portfolio I and II <i>or</i>	
HUM 4960	Senior Seminar	3 s.h.
Major electives <i>to be chosen from:</i>		13 s.h.
ENG 1320	Newspaper Reporting (3 s.h.)	
ENG 2000	Technical Writing (3 s.h.)	
ENG 2090	Approaches to Grammar (4 s.h.) *	
ENG 2230	Ideas in World Literature (3 s.h.)	
ENG 2550	Oral Interpretation of Literature (3 s.h.)	
ENG 2620	Language and Culture (3 s.h.)	
ENG 3000	Children's Literature and Drama (4 s.h.) **	
ENG 3050	Creative Writing (3 s.h.)	
ENG 3100	Advanced Composition (3 s.h.)	
ENG 3260	Business and Professional Writing (3 s.h.)	
ENG 3440	Advanced Technical Writing (3 s.h.)	
ENG 3540	American Folklore and Literature (4 s.h.)	
ENG 3550	Women in Literature (4 s.h.)	
ENG 3710	Contemporary Literature (4 s.h.)	
ENG 4170.xx - 4190.xx	Workshops in English (1 s.h.)	
ENG 4210	Time and Literature (4 s.h.)	
ENG 4380	Literature for Young Adults (3 s.h.)**	
ENG 4540	Classics of African-American Literature (4 s.h.)	
ENG 4550	Voices of Pluralism in American Literature (4 s.h.)	

36 s.h.

* Required for students seeking elementary or secondary certification.

** Required for students seeking elementary certification.

English 1010, Communication Skills I (3 s.h.), and English 1020, Communication Skills II (3 s.h.), are required courses in general education but are not applicable to any major or minor in the Department of English and Communication Arts.

English Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
ENG 3010	Major American Writers: Beginnings to 1900 <i>or</i>	
ENG 3020	Major American Writers: 1900 to Present	4 s.h.
ENG 3610	Major British Writers: Chaucer to Johnson <i>or</i>	
ENG 3620	Major British Writers: Blake to Eliot	4 s.h.
Major electives in Literature		<u>12 s.h.</u>
		24 s.h.

English Minor (20 s.h.)

REQUIRED MINOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
Electives in literature (<i>see major literature choices</i>)		<u>16 s.h.</u>
		20 s.h.

ENGLISH/JOURNALISM

English/Journalism Major: Bachelor of Arts (36 s.h.)

REQUIRED MAJOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
ENG 3960 <i>and</i> 4960	Portfolio I and II <i>or</i>	
HUM 4960	Senior Seminar	3 s.h.
Major electives in English		12-13 s.h.
Major electives in Journalism		<u>10-11 s.h.</u>
		36 s.h.

English/Journalism Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
Major electives in English		8 s.h.
Major electives in Journalism		<u>6 s.h.</u>
		24 s.h.

English/Journalism Minor (24 s.h.)

REQUIRED MINOR COURSES:

ENG 2950	Critical Writing and Literary Analysis	4 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
Minor electives in English		8 s.h.
Minor electives in Journalism		<u>6 s.h.</u>
		24 s.h.

ENVIRONMENTAL SAFETY AND HEALTH PROGRAM (ESHP)

See listing under OCCUPATIONAL SAFETY AND HEALTH.

ENVIRONMENTAL SCIENCE

Environmental Science Major (54 s.h.)

REQUIRED MAJOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
ENV 3210	Limnology: The Study of Lakes	3 s.h.
ENV 3320	Environmental Analysis	4 s.h.
ENV 4710	Environmental Pollutions	4 s.h.
ENV 4950	Senior Seminar	2 s.h.
ESS 3260	Meteorology	3 s.h.
Major electives, <i>to be chosen from:</i>		6 s.h.
BIO 2260	Microbiology (4 s.h.)	
BIO 3170	Invertebrate Zoology (4 s.h.)	
CHM 3610	Biochemistry I (4 s.h.)	
ENG 2000	Technical Writing (3 s.h.)	

ENV 2930, 3930	Internship in Environmental Science (1-4 s.h.)	
ENV 4700	Environmental Investigation (1-4 s.h.)	
ESS 2160	Earth Science (4 s.h.)	
NFS 2760	Food Service Sanitation (2 s.h.)	
OSH 4510	Hazardous Materials (3 s.h.)	
		54 s.h.

REQUIRED SUPPORT COURSES:

MTH 1210	Precalculus <i>or</i>	
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2350	Probability and Statistics	4 s.h.
		9 s.h.

RECOMMENDED SUPPORT COURSES:

Environmental Science majors are encouraged to select the following courses in fulfilling General Education requirements:

RST 3100	Franciscan Values, Social Justice, and Service *	3 s.h.
RST 4090	Environmental Ethics (PHL) **	3 s.h.

* RST 3100 *partially fulfills* Goal 2 of graduation requirements.

** RST*/PHL 4090 *fulfills* Goal 3.D. *or partially fulfills* Goal 2 of graduation requirements.

Environmental Science Minor for Biology majors

REQUIRED MINOR COURSES:

CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
ENV 3210	Limnology: The Study of Lakes	3 s.h.
ENV 3320	Environmental Analysis	4 s.h.
ENV 4710	Environmental Pollutions	4 s.h.
ESS 3260	Meteorology	3 s.h.
	Minor electives (<i>see major for choices</i>)	2 s.h.
		24 s.h.

Environmental Science Minor for Chemistry majors

REQUIRED MINOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
ENV 3210	Limnology: The Study of Lakes	3 s.h.
ENV 3320	Environmental Analysis	4 s.h.
ENV 4710	Environmental Pollutions	4 s.h.
ESS 3260	Meteorology	3 s.h.
	Minor electives (<i>see major for choices</i>)	2 s.h.
		24 s.h.

REQUIRED SUPPORT COURSE:

MTH 2350	Probability and Statistics	4 s.h.
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FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences Major: Bachelor of Science (39 s.h.)

REQUIRED MAJOR COURSES:

FCS 1250	Health Problems (NSC*)	4 s.h.
FCS 2160	Child Development and Guidance (CD*)	4 s.h.
FCS 2250	Human Nutrition (NFS*)	4 s.h.
FCS 2260	Introductory Food Science (NFS*)	4 s.h.
FCS 3130	Adolescent Psychology (PSY*)	4 s.h.
FCS 3530	Marriage and the Family (RST*/SOC)	4 s.h.
FCS 3700	Lifecycle Financial Planning (FIN*)	3 s.h.
FCS 3750	Human Shelter and Environment	4 s.h.
FCS 4500	Issues Challenging Children and Families (CD*)	3 s.h.
FCS 4530	Personal Development and Career Planning	3 s.h.
FCS 4950	Seminar (CD*)	2 s.h.
		39 s.h.

REQUIRED SUPPORT COURSE:

SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
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Secondary Teacher Certification and Occupational Certification

Majors in Family and Consumer Sciences who use this major in a plan for Secondary teacher certification must add the earning of an Interim Occupational Certificate (IOC) to their requirements. (Note that the IOC was previously named a Temporary Vocational Authorization, or TVA.)

To the major must be added an additional four semester hours of practicum experience and an additional vocational education course beyond the full Professional Education Sequence, as listed below.

REQUIRED OCCUPATIONAL EDUCATION COURSES:

Required Practicum Courses:

FCS 2930	Practicum in Children and Youth Services	1 s.h.
FCS 2940	Practicum in Educational Services	1 s.h.
FCS 3930	Practicum in Family Services	1 s.h.
FCS 3940	Practicum in Consumer Services	1 s.h.
		4 s.h.

Required Specific Vocational Education Courses:

EDU 4450	Foundations of Vocational Education	2 s.h.
EDU 4540	Theory and Techniques of Instruction: Vocational Family and Consumer Sciences (7-12)*	4 s.h.
		10 s.h.

* Note: the course EDU 4540 is also a required part of the Professional Education Sequence.

Family and Consumer Sciences Minor (23 s.h.)

REQUIRED MINOR COURSES:

FCS 2160	Child Development and Guidance (CD*)	4 s.h.
FCS 2250	Human Nutrition (NFS*)	4 s.h.
FCS 2260	Introductory Food Science (NFS*)	4 s.h.
FCS 3130	Adolescent Psychology (PSY*)	4 s.h.
FCS 3700	Lifecycle Financial Planning (FIN*)	3 s.h.
FCS 3750	Human Shelter and Design	4 s.h.
		23 s.h.

Note: Teacher certification is not available with this minor.

FASHION MERCHANDISING

See listing under MERCHANDISING MANAGEMENT.

FINE ARTS

See listing under ART.

FIRE SCIENCE

Fire Science Major: Bachelor of Science (30 s.h.)

REQUIRED MAJOR COURSES:

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 2910	Cooperative Education I* <i>or</i>	
FS 2930	Internship I*	1-3 s.h.
FS 3500	Hydraulics and Water Supply	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
FS 3910	Cooperative Education II** <i>or</i>	
FS 3930	Internship II**	1-3 s.h.
FS 4400	Tactics and Strategy	3 s.h.
FS 4510	Hazardous Materials	3 s.h.
FS 4950	Senior Seminar	2 s.h.
	Major electives	<u>1-5 s.h.</u>
		30 s.h.

REQUIRED SUPPORT COURSES:

CHM 1110	General Chemistry I <i>and</i>	4 s.h.
MTH 1050	Intermediate Algebra	4 s.h.
MTH 1060	Trigonometry <i>or</i>	
MTH 1210	Precalculus	3-5 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		19-21 s.h.

Fire Science Major: Associate of Science (24 s.h.)

REQUIRED MAJOR COURSES:

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 2910	Cooperative Education I* <i>or</i>	
FS 2930	Internship I*	1-3 s.h.
FS 3500	Hydraulics and Water Supply	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
FS 4400	Tactics and Strategy	3 s.h.
FS 4510	Hazardous Materials	3 s.h.
	Major electives	<u>0-2 s.h.</u>
		24 s.h.

REQUIRED SUPPORT COURSES:

CHM 1110	General Chemistry I <i>and</i>	4 s.h.
MTH 1050	Intermediate Algebra	4 s.h.
MTH 1060	Trigonometry <i>or</i>	
MTH 1210	Precalculus	3-5 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		19-21 s.h.

*Required for preservice associate and baccalaureate students.

**Required for preservice baccalaureate students.

Fire Science Minor (20 s.h.)

REQUIRED MINOR COURSES:

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 3500	Hydraulics and Water Supply	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 4510	Hazardous Materials	3 s.h.
	Minor electives	<u>5 s.h.</u>
		20 s.h.

Fire Science Certificate of Achievement (30 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 3500	Hydraulics and Water Supply	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
FS 4510	Hazardous Materials	3 s.h.
	Certificate electives	<u>9 s.h.</u>
		30 s.h.

FORENSIC PSYCHOLOGY

See listing under PSYCHOLOGY

FORENSIC SCIENCE

Forensic Science Major: Bachelor of Science (62 s.h.)

REQUIRED MAJOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4410	Molecular Biology	3 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 3610	Biochemistry I	4 s.h.
CHM 4510	Instrumental Analysis	4 s.h.
CJ 3050	Criminal Procedure (FOR)	3 s.h.
CJ 3110	Criminal Investigation (FOR)	3 s.h.
CJ 3210	Criminology (FOR)	3 s.h.
FOR 4610	Methods in Forensic Science	4 s.h.
FOR 4950	Senior Seminar	<u>2 s.h.</u>
		62 s.h.

REQUIRED SUPPORT COURSES:

PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
MTH 1210	Precalculus <i>or</i>	
MTH 2300	Business Calculus <i>or</i>	
MTH 2510	Calculus I	4-5 s.h.
MTH 2350	Probability and Statistics	<u>4 s.h.</u>
		16-17 s.h.

RECOMMENDED ELECTIVES:

FOR 4910	Cooperative Education	3 s.h.
FOR 4930	Internship in Forensic Science	3 s.h.
CHM 2220	Organic Chemistry II	3 s.h.
CHM 3620	Biochemistry II	3 s.h.

BIO 3280	Immunology	3 s.h.
BIO 3210	General Ecology	3 s.h.
CJ 1020	Introduction to Criminal Justice	3 s.h.
FOR 3820	Forensic Psychology (PSY*/CJ)	3 s.h.
FOR 4230	Homicide Investigation (CJ*)	3 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:

The plan requires all of the following courses not previously completed with a grade of C or better:

Forensic Science Required Major Courses	62 s.h.
Forensic Science Required Support Courses	16-17 s.h.
RST 4110 Medical Ethics (PHL) <i>or</i>	
RST 4140 Life/Death Issues	<u>3-4 s.h.</u>
	<i>minimum 30 s.h.</i>

Science 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 College of Science and Mathematics programs.*)

While the minimum requirement for the certificate is 30 s.h., 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 Recommended Electives group.

GENERAL SCIENCE

General Science Major: Bachelor of Science (42 s.h.)

The degree of Bachelor of Science with a major in General Science is available only at the completion of all requirements for the Elementary (K-8) Provisional Teaching Certificate. A student who begins the program for teacher certification but does not complete it for any reason must change to another major to complete degree requirements.

Students completing the Bachelor of Science degree using the General Science major must add the course EDU 4470, Theory and Techniques of Science Instruction: Elementary School, 1 s.h., to the Professional Education requirements listed in the Education section of this Bulletin.

REQUIRED MAJOR COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1610	Introduction to Life Chemistry	4 s.h.
ESS 2160	Earth Science	4 s.h.
ESS 3030	Oceans: Our Continuing Frontier	4 s.h.
ESS 3290	Principles of Astronomy	4 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
GSC 4950	Senior Seminar	<u>2 s.h.</u>
		42 s.h.

REQUIRED SUPPORT COURSES:

MTH 1050	Intermediate Algebra	4 s.h.
	<i>and</i>	
MTH 1060	Trigonometry <i>or</i>	
MTH 1210	Precalculus	<u>3-5 s.h.</u>
		5-7 s.h.

GERONTOLOGY

All students working toward a minor, certificate, associate degree, or bachelor degree 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 aging.

Gerontology Major: Bachelor of Science (42 s.h.*)

REQUIRED MAJOR COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2300	Programs and Services for Older Adults	3 s.h.
GER 3020	Program Planning for Older Adults	3 s.h.
GER 3030	Spirituality of Aging	1 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 4150	Social Gerontology	3 s.h.
GER 4250	Public Policy and Resources in Aging	3 s.h.
GER 4760	Field Placement	4 s.h.
GER 4770	Field Seminar	2 s.h.
GER 4950	Gerontology Senior Seminar	3 s.h.
	Major electives	<u>8 s.h.</u>
		42 s.h.

* A minimum of 16 s.h. must be taken at Madonna University.

Gerontology Major: Associate of Science (31 s.h.)

REQUIRED MAJOR COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2300	Programs and Services for Older Adults	3 s.h.
GER 3020	Program Planning for Older Adults	3 s.h.
GER 3030	Spirituality of Aging	1 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 4150	Social Gerontology	3 s.h.
GER 4760	Field Placement	4 s.h.
GER 4770	Field Seminar	2 s.h.
	Major electives	<u>3 s.h.</u>
		31 s.h.

Gerontology Minor (20 s.h.*)

REQUIRED MINOR COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
	Minor electives**	<u>17 s.h.</u>
		20 s.h.

* A minimum of 8 s.h. in upper division courses at Madonna University.

** GER 4760 and 4770 may not be used to satisfy the minor elective requirements.

Activity and Program Planning Certificate of Achievement (35 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2100	Physical Education Activities	2 s.h.
GER 2460	Working with Disabled Older Adults	2 s.h.
GER 3020	Program Planning for Older Adults	3 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3100	Activity in Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3500	Mental Health and the Older Adult	3 s.h.
	<i>more</i>	

GER 3850	Documentation and Assessment	3 s.h.
GER 4760.4	Field Placement	4 s.h.
GER 4770	Field Seminar	2 s.h.
GER 4850	Gerontology Management	<u>3 s.h.</u>
		35 s.h.

REQUIRED SUPPORT COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
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PREREQUISITES:

PSY 1010	General Psychology	3 s.h.
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Case Management Certificate of Achievement (32 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2240	Supporting Family Caregivers	2 s.h.
GER 2300	Programs and Services for Older Adults	3 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3500	Mental Health and the Older Adult	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 3850	Documentation and Assessment	3 s.h.
GER 3900	Care Management for Older Adults	3 s.h.
GER 4760.6	Field Placement	4 s.h.
GER 4770	Field Seminar	<u>2 s.h.</u>
		32 s.h.

REQUIRED SUPPORT COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
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PREREQUISITE COURSES:

PSY 1010	General Psychology	3 s.h.
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Gerontology Certificate of Achievement (34 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2300	Programs and Services for Older Adults	3 s.h.
GER 3020	Program Planning for Older Adults	3 s.h.
GER 3030	Spirituality of Aging	1 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 4150	Social Gerontology	3 s.h.
GER 4760	Field Placement	4 s.h.
GER 4770	Field Seminar	2 s.h.
	Gerontology electives	<u>6 s.h.</u>
		34 s.h.

REQUIRED SUPPORT COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
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PREREQUISITES:

PSY 1010	General Psychology	3 s.h.
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Dementia Care Certificate of Completion (11 s.h.)

REQUIRED CERTIFICATE COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
GER 2010	Intro. to Alzheimer's Disease and Other Dementias	1 s.h.
GER 2240	Supporting Family Caregivers	2 s.h.
GER 3100	Activity in Aging	3 s.h.
GER 3460	Addressing Behavior Changes in Dementia	<u>2 s.h.</u>
		11 s.h.

Eldercare Practice Certificate of Completion (13 s.h.)

REQUIRED CERTIFICATE COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
GER 2240	Supporting Family Caregivers	1 s.h.
GER 3500	Mental Health and the Older Adult	3 s.h.
GER 3850	Documentation and Assessment	3 s.h.
GER 3900	Care Management for Older Adults	<u>3 s.h.</u>
		13 s.h.

Note: All 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 (36 s.h.)

REQUIRED MAJOR COURSES:

HIS 1080	Ancient World <i>or</i>	
HIS 2450	Medieval and Renaissance Europe	4 s.h.
HIS 2310	United States to 1900 <i>or</i>	
HIS 4810	American Civil War	4 s.h.
HIS 3300	Early Modern Europe <i>or</i>	
HIS 3330	Modern Europe, 1815 to Present	4 s.h.
HIS 3410	Minority Groups in America	4 s.h.
HIS 4530	United States in the Twentieth Century	4 s.h.
HIS 4630	Emerging Nations	3 s.h.
HIS 4950	History and Social Science Seminar	4 s.h.
	Major electives	<u>9 s.h.</u>
		36 s.h.

Note: no more than one course from the Polish Studies curriculum may be counted in the total credits toward a History major or History minor.

History Minor (24 s.h.)

REQUIRED MINOR COURSES:

HIS 1080	Ancient World <i>or</i>	
HIS 2450	Medieval and Renaissance Europe	4 s.h.
HIS 2310	United States to 1900 <i>or</i>	4 s.h.
HIS 4810	American Civil War	4 s.h.
HIS 3300	Early Modern Europe <i>or</i>	4 s.h.
HIS 3330	Modern Europe, 1815 to Present	4 s.h.
HIS 4530	United States in the Twentieth Century	4 s.h.
HIS 4630	Emerging Nations	3 s.h.
	Minor electives	<u>5 s.h.</u>
		24 s.h.



HOSPICE EDUCATION

Hospice Education Major: Bachelor of Science (31 s.h.)

REQUIRED MAJOR COURSES:

HSP 2210	Introduction to Hospice Care Concepts	3 s.h.
HSP 3310	Management of the Bereavement Process	3 s.h.
HSP 3480	Psychosocial Components of Hospice Care	3 s.h.
HSP 3500	Spiritual and Ethical Considerations in Hospice Care	3 s.h.
HSP 3530	Comfort and Care for the Hospice Client	3 s.h.
HSP 4620	Managing Hospice Services I	3 s.h.
HSP 4650	Hospice Field Experience I	3 s.h.
HSP 4750	Emerging Issues in Interdisciplinary Hospice Care	3 s.h.
HSP 4820	Managing Hospice Services II	3 s.h.
HSP 4850	Field Experience II	2 s.h.
HSP 4950	Senior Seminar	<u>2 s.h.</u>
		31 s.h.

REQUIRED SUPPORT COURSES:

RST 4140	Life/Death Issues	4 s.h.
SW 2390	Empathy Listening Skills	1 s.h.

Hospice Education Major: Associate of Science (28 s.h.)

REQUIRED MAJOR COURSES:

HSP 2210	Introduction to Hospice Care Concepts	3 s.h.
HSP 3310	Management of the Bereavement Process	3 s.h.
HSP 3480	Psychosocial Components of Hospice Care	3 s.h.
HSP 3500	Spiritual and Ethical Considerations in Hospice Care	3 s.h.
HSP 3530	Comfort and Care for the Hospice Client	3 s.h.
HSP 4620	Managing Hospice Services I	3 s.h.
HSP 4650	Hospice Field Experience I	3 s.h.
HSP 4750	Emerging Issues in Interdisciplinary Hospice Care	3 s.h.
	Major electives	<u>4 s.h.</u>
		28 s.h.

REQUIRED SUPPORT COURSES:

RST 4140	Life/Death Issues	4 s.h.
SW 2390	Empathy Listening Skills	1 s.h.

Hospice Education Certificate of Achievement (31 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
HSP 2210	Introduction to Hospice Care Concepts	3 s.h.
HSP 3310	Management of the Bereavement Process	3 s.h.
HSP 3480	Psychosocial Components of Hospice Care	3 s.h.
HSP 3500	Spiritual and Ethical Considerations in Hospice Care	3 s.h.
HSP 3530	Comfort and Care for the Hospice Client	3 s.h.
HSP 4620	Managing Hospice Services I	3 s.h.
HSP 4650	Hospice Field Experience I	3 s.h.
HSP 4750	Emerging Issues in Interdisciplinary Hospice Care	3 s.h.
RST 4140	Life/Death Issues	<u>4 s.h.</u>
		31 s.h.

Hospice Education Minor (21 s.h.)

REQUIRED MINOR COURSES:

HSP 2210	Introduction to Hospice Care Concepts	3 s.h.
HSP 3310	Management of the Bereavement Process <i>or</i>	
HSP 4750	Emerging Issues in Interdisciplinary Hospice Care	3 s.h.
HSP 3480	Psychosocial Components of Hospice Care	3 s.h.
HSP 3500	Spiritual and Ethical Considerations in Hospice Care	3 s.h.
HSP 3530	Comfort and Care for the Hospice Client	3 s.h.
HSP 4620	Managing Hospice Services I	3 s.h.
HSP 4650	Hospice Field Experience I	<u>3 s.h.</u>
		21 s.h.

RECOMMENDED COURSE:

RST 4140	Life/Death Issues	4 s.h.
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HOSPITALITY MANAGEMENT

Hospitality Management Major: Bachelor of Science (40 s.h.)

REQUIRED MAJOR COURSES:

HMG 3360	Lodging Management I	3 s.h.
HMG 4360	Lodging Management II	2 s.h.
HMG 4910	Cooperative Education	2 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 3630	Architectural Style and Interior Design	4 s.h.
NFS 2250	Human Nutrition	4 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 2760	Food Service Sanitation	2 s.h.
NFS 3460	Food Service Management I	3 s.h.
NFS 4460	Food Service Management II	3 s.h.
	Major electives*	<u>10 s.h.</u>
		40 s.h.

* Major electives may be selected from all School of Business and NFS courses.

Required minor in Business Administration (24 s.h.).

Hospitality Management Minor (20 s.h.)

REQUIRED MINOR COURSES:

HMG 3360	Lodging Management I	3 s.h.
HMG 4360	Lodging Management II	2 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 3460	Food Service Management I	3 s.h.
	Major electives	<u>8 s.h.</u>
		20 s.h.

HUMAN RESOURCES MANAGEMENT

See listing under MANAGEMENT.

HUMANITIES

Humanities Minor (24 s.h.)

REQUIRED MINOR COURSES:

8 s.h. must be in upper division courses.

HUM 2010	The Medium and the Message <i>or</i>	
HUM 3050	The Idea of Justice	4 s.h.
HUM 3080	The Nature and Scope of Inquiry	4 s.h.
	Minor electives, from a minimum of four Humanities disciplines*	<u>16 s.h.</u>
		24 s.h.

* Minor electives to be chosen from the following disciplines: Art, Art History, English, Foreign Languages, Humanities, Journalism, Music, Philosophy, Religious Studies, Sign Language Studies, and Speech.

INSTRUMENTAL PERFORMANCE

See listing under MUSIC.

INTEGRATED SCIENCE

The Integrated Science major is especially intended for the Secondary (grades 7-12) science teacher. It is a comprehensive major and does not require a minor for teacher certification. Students selecting an interdisciplinary science major as preparation for professional and graduate studies are referred to the Natural Science major.

Integrated Science Major: Bachelor of Science (58-62 s.h.)

The student must complete (a) all the required core and required Mathematics support courses, (b) all the courses listed for one of the three groups Biology support, or Chemistry support, or Physics support, and (c) a starred (*) course from one of the remaining support course groups.

REQUIRED CORE COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
ESS 2160	Earth Science	4 s.h.
ESS 3030	Oceans: Our Continuing Frontier	4 s.h.
ESS 3290	Astronomy	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
		<u>44 s.h.</u>
Selected * course		4 s.h.
Selected Support Group		<u>10-14 s.h.</u>
		58-62 s.h.

BIOLOGY SUPPORT COURSES:

*BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4950	Senior Seminar	2 s.h.
<i>Also required:</i>		
MTH 2350	Probability and Statistics	4 s.h.

CHEMISTRY SUPPORT COURSES:

*CHM 2220	Organic Chemistry. II <i>or</i>	
*CHM 3610	Biochemistry	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 4950	Senior Seminar	2 s.h.

PHYSICS SUPPORT COURSES:

PHY 2710	Fundamental Electronics	4 s.h.
PHY 3510	Modern Physics: Atomic and Nuclear	4 s.h.
*PHY 4510	Electronics: Digital Techniques	4 s.h.
NSC 4950	Senior Seminar	2 s.h.

REQUIRED MATHEMATICS SUPPORT COURSES:

MTH 1050	Intermediate Algebra <i>and</i>	4 s.h.
MTH 1060	Trigonometry <i>or</i>	
MTH 1210	Pre-Calculus	3-55 s.h.

INTERDISCIPLINARY STUDIES

Interdisciplinary Studies Major: Bachelor of Arts

The Bachelor of Arts degree with a major in Interdisciplinary Studies is designed for the highly motivated student who desires a program of study with more flexibility and opportunities for interdisciplinary study than a traditional major. Objectives of the program include:

- Integration of personal development, liberal arts, and professional/career studies in an individualized plan of study;
- Development of writing skills, critical thinking skills, and interdisciplinary problem-solving skills;

- Emphasis on breadth of academic experience rather than development of a major;
- Inclusion of applied research and interdisciplinary projects;
- Emphasis on global and multicultural perspectives.

Interdisciplinary Studies degree students are expected to incorporate clearly articulated educational and career goals into an individual plan of study and rationale, which must be approved by the Interdisciplinary Studies Director and Interdisciplinary Studies Faculty Advisory Committee. It is recommended that the plan of study focus on a theme, problem, or issue that can be addressed through an interdisciplinary approach. Each student is asked to present her or his plan at a meeting of Interdisciplinary Studies Faculty Advisory Committee. The plan of study may include approved certificate programs.

REQUIRED MAJOR COURSES:

ENG 3100	Advanced Composition and Research Strategies	3 s.h.
IDS 3000	Interdisciplinary Topics Seminar	3 s.h.
IDS 3020	Tools for Success in Interdisciplinary Studies	1 s.h.
IDS 4950	Senior Seminar	3 s.h.

Students are admitted on a pre-Interdisciplinary Studies status. Once the student's plan of study, developed in IDS 3020, is approved by the Faculty Advisory Committee, he/she is fully admitted to the Interdisciplinary Studies program.

Students must complete a minimum of 45 s.h. at the upper division (3000- or 4000-level) as part of the 120 s.h. required for the degree. This includes all courses taken at the 3000- or 4000-level, such as General Education, Interdisciplinary Studies courses, and electives.

Transfer students must earn at least 30 s.h. at Madonna University.

FTIAC students (first time in any college) must take IDS 3020 after completing 30 s.h. and before completing 60 s.h. of coursework. Students must complete a minimum of 24 s.h. after gaining approval for the plan of study. It is recommended that transfer students, particularly those with more than 60 s.h. of transfer credit, take IDS 3020 in their first semester at Madonna University.

Interested students should contact the Interdisciplinary Studies Director for additional information and application guidelines.

INTERNATIONAL BUSINESS

- Experience abroad is required.
- Competency in a modern foreign language is also required. A "modern foreign language" is one which is in current use in the world (e.g., Latin would not be considered a foreign language for this elective as it is not in current use).

FOREIGN LANGUAGE PROFICIENCY REQUIREMENT:

1. If the student has had a minimum of two years or four semesters of a language at the high school level and earned a grade of A or B; *or*
2. If the student enrolls in 3 s.h. or 4 s.h. of a foreign language at any accredited institution of higher learning and earns a grade of A or B; *or*
3. If the student passes the CLEP exam of any foreign language; *or*
4. If the student passes a 15 minute conversation in a certain pre-selected topical area with an approved faculty member evaluator with prior approval by the Dean of the School of Business

then the student has successfully met the Foreign Language Proficiency Requirement.

International Business and Economics Major: Bachelor of Science (62 s.h.)

REQUIRED MAJOR COURSES:

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
ACC 3130	Internal Financial Analysis	3 s.h.
BUS 3950	Business and Society	3 s.h.
BL 3330	Business Law I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
ECN 3940	Economic Geography	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	1-3 s.h.
INB 4930	Internship	2 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 4950	Business Policy	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
PSC 3010	International Relations	4 s.h.
PSC 3210	Comparative Politics	4 s.h.
QS 3550	Applied Business Statistics	3 s.h.
Business electives (choose for example):		5-7 s.h.
CIS 3300 Information Systems for Decision Making (3 s.h.)		
FIN 3150 Business Finance (3 s.h.)		
INB 4710-4750 Seminars in International Business and Economics (1-3 s.h.)		
QOM 4210 Production and Operations Management (3 s.h.)		
Modern Foreign Language (3-4 s.h.)		
		62 s.h.

REQUIRED SUPPORT COURSES:

ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
HIS 4320	Diplomatic History of the United States	3 s.h.
HIS 4630	Emerging Nations	3 s.h.
MTH 1050	Intermediate Algebra <i>or</i>	
MTH 1210	Precalculus	4-5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.
		26-27 s.h.

Combined Baccalaureate/Master Degree

A combined degree program is offered which results in a student earning a Bachelor of Science degree in International Business and a Master of Science in Business Administration with a major in International Business. Students interested in this combined program should apply to graduate studies at least one semester before they plan to take the graduate-level courses listed below. Students who participate in this track must satisfy all undergraduate degree requirements for their major. They may meet part of the undergraduate requirements by taking these graduate courses before receiving the baccalaureate.

Graduate Course and Number	Undergraduate Course
INB 5350 International Trade Structures and Systems	INB 4350
INB 5450 International Management	INB 4450
INB 6350 Foreign Business and Culture Experience	INB 4500

Taking these graduate courses in the undergraduate program does not automatically guarantee admission into the graduate program for International Business.

INTERNATIONAL STUDIES

Certificate of Achievement (30 s.h.)

CERTIFICATE REQUIREMENTS:

- Experience abroad, which may be embedded in a course or courses or be a separate documented, approved experience.
- Proficiency in a language other than English, demonstrated through college coursework, proficiency examination, or other approved experiences.
- A minimum of 30 s.h. of coursework, as listed.

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills	3 s.h.
INT 2100	International Studies Foundations	1 s.h.
GEO 3010	World Regional Geography <i>or</i>	
PSC 3010	International Relations	4 s.h.
HIS 4320	Diplomatic History of the United States <i>or</i>	
HIS 4630	Emerging Nations	3 s.h.
INB 3140	International Business <i>or other approved profession-related course</i>	3 s.h.
INT 4950	International Studies Seminar	3 s.h.
Certificate electives, including study abroad, foreign language, approved international studies course electives*		13 s.h.
		30 s.h.

* All electives should be discussed with an advisor in advance of registration.

NOTE: For advisors for the International Studies Certificate, please see the History Department.

JOURNALISM AND PUBLIC RELATIONS

Journalism and Public Relations Major: Bachelor of Arts (46 s.h.)

REQUIRED MAJOR COURSES:

JRN 1210	Introduction to Commercial Art	4 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 2050	Public Relations Writing	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 3130	Photography I	3 s.h.
JRN 3160	Newspaper Production	2 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
JRN 4160	Advanced Newspaper 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 3960 <i>and</i> 4960	Portfolio I and II <i>or</i>	
HUM 4960	Senior Seminar	3 s.h.
Major electives, to be chosen from:		13 s.h.

ART 2070	Creative Design (4 s.h.)
ART 2680	Commercial Art Experiences (4 s.h.)
ART 3610	Advertising Design (4 s.h.)
ART 4250	Advanced Problems in Commercial Art (4 s.h.)
CIS 2850	Web Design for Business Applications (3 s.h.)
ENG 2000	Technical Writing (3 s.h.)
ENG 2090	Approaches to Grammar (4 s.h.)
ENG 2620	Language and Culture (3 s.h.)
ENG 3050	Creative Writing (3 s.h.)
ENG 3260	Business and Professional Writing (3 s.h.)
JRN 2100	Media Relations in Sport (SM*) (3 s.h.)

JRN 3140	Photography II (3 s.h.)	
JRN 3510	Television Production Techniques I (3 s.h.)	
JRN 3520	Television Production Techniques II (3 s.h.)	
JRN 4050	Advanced Public Relations (3 s.h.)	
MKT 2440	Principles of Marketing (3 s.h.)	
MKT 2550	Consumer Behavior (3 s.h.)	
MKT 3070	Promotional Strategy (3 s.h.)	
MKT 3870	Sales Management (3 s.h.)	
MKT 4560	Marketing Management (3 s.h.)	
		46 s.h.

Journalism and Public Relations Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

JRN 1320	Newspaper Reporting	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 3130	Photography I	3 s.h.
JRN 3160	Newspaper Production	2 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
Major electives in Journalism		10 s.h.
		24 s.h.

REQUIRED SUPPORT COURSES (6 s.h. to be chosen from):

ART 2070	Creative Design and Color	4 s.h.
ART 2680	Commercial Art Experiences	4 s.h.
JRN 2910, 3910	Practicum/Cooperative Education	1-6 s.h.
MKT 2440	Principles of Marketing	3 s.h.
MKT 2550	Consumer Behavior	3 s.h.
MKT 3070	Promotional Strategy	3 s.h.

Journalism Minor (20 s.h.)

REQUIRED MINOR COURSES:

JRN 1320	Newspaper Reporting	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 3160	Newspaper Production	2 s.h.
JRN 3570	Editing and Copyreading	3 s.h.
JRN 4160	Advanced Newspaper Production	2 s.h.
Minor electives		7 s.h.
		20 s.h.

Students seeking teacher certification are also required to complete JRN 3130, Photography I, 3 s.h., and JRN 4010, Foundations of Mass Communication, 3 s.h., with 1 s.h. required in electives. Note that teacher certification candidates may not include public relations-focused courses in their electives.

LANGUAGE ARTS

Language Arts Major: Bachelor of Arts (40 s.h.)

REQUIRED MAJOR COURSES (33):

ENG 2090	Approaches to Grammar	4 s.h.
ENG 2620	Language and Culture	3 s.h.
ENG 2950	Critical Writing and Literary Analysis	4 s.h.
ENG 3000	Children's Literature and Drama	4 s.h.
ENG 3050	Creative Writing <i>or</i>	
ENG 3100	Advanced Composition	3 s.h.
ENG 4380	Literature for Young Adults	3 s.h.
ENG 3540	American Folklore and Literature <i>or</i>	
ENG 4540	Classics of African-American Literature <i>or</i>	
ENG 4550	Voices of Pluralism in American Literature	4 s.h.
SPH 1050	Speech Communication <i>or</i>	
SPH 3300	Public Speaking: Theory and Practice	3 s.h.
SPH 2550	Oral Interpretation of Literature	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
ENG 3960 <i>and</i> 4960	Portfolio I <i>and</i> II <i>or</i>	
HUM 4960	Senior Seminar	3 s.h.
Electives to be chosen from:		3-4 s.h.

ENG 3010	Major American Writers: Beginnings to 1900 (4 s.h.)	
ENG 3020	Major American Writers: 1900 to Present (4 s.h.)	
ENG 3540	American Folklore and Literature (4 s.h.)	
ENG 4540	Classics of African-American Literature (4 s.h.)	
ENG 4550	Voices of Pluralism in American Literature (4 s.h.)	
SPH 3160	Group Dynamics and Discussion Techniques (4 s.h.)	
SPH 3410	Acting Techniques I (4 s.h.)	
TVC 2510	A Survey of Telecommunications (3 s.h.)	
TVC 3510	Television Production Techniques I (3 s.h.)	
		40 s.h.

LEGAL ASSISTANT

Listing is now under PARALEGAL STUDIES and NURSE PARALEGAL.

LONG TERM CARE ADMINISTRATION

All students working toward an associate degree or bachelor degree in Long Term Care Administration 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 long term care.

Long Term Care Administration Major: Bachelor of Science (55 s.h.)

REQUIRED MAJOR COURSES:

GER 2300	Programs and Services for Older Adults	3 s.h.
GER 2460	Working with Disabled Older Adults	2 s.h.
GER 3070	Psychology of Aging	3 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 4150	Social Gerontology	3 s.h.
GER 4250	Public Policy and Resources in Aging	3 s.h.
GER 4770	Field Seminar	2 s.h.
GER 4850	Gerontology Management	3 s.h.
GER 4950	Senior Seminar	3 s.h.
ACC 2000	Survey of Accounting	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3020	Organizational Behavior	3 s.h.
MGT 3100	Strategic Human Resources Planning	3 s.h.
MGT 3690	Entrepreneurship	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
Required Concentration courses: <i>select from</i> Nursing Home Administration <i>or</i> Case Management (see below)		10 s.h.
		55 s.h.

REQUIRED SUPPORT COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
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In addition to the above required courses and required support course, Long Term Care Administration majors at the baccalaureate level must select a 10 semester-hour concentration in either Nursing Home Administration or in Case Management, as indicated below.

CONCENTRATION IN NURSING HOME ADMINISTRATION:

GER 4760.5	Field Experience	4 s.h.
GER 4870	Nursing Home Administration I	3 s.h.
GER 4880	Nursing Home Administration II	3 s.h.
		10 s.h.

CONCENTRATION IN CASE MANAGEMENT:

GER 3850	Documentation and Assessment	3 s.h.
GER 3900	Care Management for Older Adults	3 s.h.
GER 4760.6	Field Experience	<u>4 s.h.</u>
		10 s.h.

Long Term Care Administration Major: Associate of Science (31 s.h.)**REQUIRED MAJOR COURSES:**

ACC 2000	Survey of Accounting	3 s.h.
GER 2300	Programs and Services for Older Adults	3 s.h.
GER 2460	Working with Disabled Older Adults	2 s.h.
GER 3150	Physical Aspects of Aging	3 s.h.
GER 3700	Legal Issues for Older Adults	2 s.h.
GER 4250	Public Policy and Resources in Aging	3 s.h.
GER 4760.5	Field Experience	4 s.h.
GER 4770	Field Seminar	2 s.h.
GER 4850	Gerontology Management	3 s.h.
GER 4870	Nursing Home Administration I	3 s.h.
GER 4880	Nursing Home Administration II	<u>3 s.h.</u>
		31 s.h.

REQUIRED SUPPORT COURSES:

GER 1070	Introduction to Gerontology	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		9 s.h.

Nursing Home Administration Pre-Licensure Certificate of Completion (9 s.h.)

GER 4850	Gerontology Management	3 s.h.
GER 4870	Nursing Home Administration I	3 s.h.
GER 4880	Nursing Home Administration II	<u>3 s.h.</u>
		9 s.h.

LPN to BSN

See listing under NURSING.

MANAGEMENT**Human Resources Management Major: Bachelor of Science (62 s.h.)****REQUIRED MAJOR COURSES:**

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
ACC 3130	Internal Financial Analysis	3 s.h.
BUS 3950	Business and Society	3 s.h.
BL 3330	Business Law I	3 s.h.
BL 3500	Employment Law	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
CIS 4570	Human Resource Management Information Systems	3 s.h.
FIN 3150	Business Finance	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3020	Organizational Behavior	3 s.h.
MGT 3100	Strategic Human Resources Planning	3 s.h.
MGT 3270	Human Resources Training and Development	3 s.h.
MGT 4350	Compensation	3 s.h.
MGT 4400	Labor Relations Policy and Practice	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.
QS 4220	Human Resources Selection, Tests, and Measurements	3 s.h.

Business electives to be chosen from: 5 s.h.

CIS 3300 I	Information Systems for Decision Making (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.)	
QOM 3630	Materials and Purchasing Management (3 s.h.)	
MGT 3160	Human Behavior and Leadership (2 s.h.)	
MGT 3690	Entrepreneurship (3 s.h.)	
MGT 3750	Allied Health Management (3 s.h.)	
QOM 4210	Production and Operations Management (3 s.h.)	
MGT 4710-4750	Seminars in Management (1-3 s.h.)	
MGT 4910	Cooperative Education (1 s.h.)	
MGT 4920	Cooperative Education (1 s.h.)	
PSY 4220	Theories of Personality (4 s.h.)	
SOC 2330	Interviewing Techniques (3 s.h.)	
		<u>62 s.h.</u>

REQUIRED SUPPORT COURSES:

ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
MTH 1050	Intermediate Algebra <i>or</i>	
MTH 1210	Precalculus	4-5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability and Statistics	<u>4 s.h.</u>
		20-21 s.h.

HUMAN RESOURCES MANAGEMENT AREAS OF COMPETENCY

- (1) COMPENSATION AND EMPLOYEE BENEFITS
MGT 4350 Compensation (3 s.h.)
- (2) RECORDS AND CONTROL SYSTEMS
CIS 4570 Human Resources Information Systems (3 s.h.)
- (3) EMPLOYEE/LABOR RELATIONS
MGT 4400 Labor Relations Policy and Practice (3 s.h.)
- (4) RECRUITMENT, SELECTION AND EMPLOYMENT
QS 4220 Human Resources Selection, Tests, and Measurements (3 s.h.)

Fundamentals of Quality and Operations Leadership Certificate of Completion (9 s.h.)**REQUIRED CERTIFICATE COURSES:**

QOM 3210	Production and Operations Management	3 s.h.
QOM 3560	Teaming	3 s.h.
QOM 3630	Material and Purchasing Management	<u>3 s.h.</u>
		9 s.h.

MARKETING**Marketing Major: Bachelor of Science (62 s.h.)****REQUIRED MAJOR COURSES:**

ACC 2010	Principles of Accounting I	3 s.h.
ACC 2020	Principles of Accounting II	3 s.h.
ACC 3130	Internal Financial Analysis	3 s.h.
BUS 3950	Business and Society	3 s.h.
BL 3330	Business Law I	3 s.h.
CIS 2380	Introduction to Computers	3 s.h.
FIN 3150	Business Finance	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 4950	Business Policy	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
MKT 2550	Consumer Behavior	3 s.h.
MKT 3070	Promotional Strategy	3 s.h.

MKT 3680	Marketing Communications	3 s.h.
MKT 3730	Principles of Advertising	3 s.h.
MKT 4560	Marketing Management	3 s.h.
QS 3550	Applied Business Statistics	3 s.h.
QS 4230	Market Research	3 s.h.
Business courses, <i>minimum of 6 s.h. to be chosen from:</i>		6 s.h.
INB 3140	International Business (3 s.h.)	
MGT 3630	Materials and Purchasing Management (3 s.h.)	
MKT 3660	Business Marketing (3 s.h.)	
MKT 3870	Sales Management (3 s.h.)	
Business electives (<i>examples to chose from</i>):		5 s.h.
CIS 3300	Information Systems for Decision Making (3 s.h.)	
MGT 3690	Entrepreneurship (3 s.h.)	
MKT 2100	Promotional Mix: Professional Selling (2 s.h.)	
MKT 2120	Promotional Mix: Theory and Practice of Teleselling (1 s.h.)	
MKT 2140	Promotional Mix: Sales Communication Strategies (2 s.h.)	
MKT 2210	Promotional Mix: Customer Service for Sales (1 s.h.)	
MKT 4710-4750	Seminars in Marketing (1-3 s.h.)	
MKT 4910	Cooperative Education (1 s.h.)	
MKT 4920	Cooperative Education (1 s.h.)	
MM 2400	Principles of Retailing (3 s.h.)	
MM 2620	Fashion Promotion and Coordination (3 s.h.)	
MM 3010	Specialty Merchandising (3 s.h.)	
MM 3080	Visual Merchandising (3 s.h.)	
MM 3480	Retail Buying (3 s.h.)	
		62 s.h.

REQUIRED SUPPORT COURSES:

ECN 2720	Principles of Microeconomics	4 s.h.
ECN 2730	Principles of Macroeconomics	4 s.h.
MTH 1050	Intermediate Algebra <i>or</i>	
MTH 1210	Precalculus	4-5 s.h.
MTH 2300	Business Calculus	4 s.h.
MTH 2350	Probability and Statistics	<u>4 s.h.</u>
		20-21 s.h.

Sales Specialist Certificate of Completion (9 s.h.)

REQUIRED CERTIFICATE COURSES:

MKT 2100	Promotional Mix: Professional Selling	2 s.h.
MKT 2120	Promotional Mix: Theory and Practice of Teleselling	1 s.h.
MKT 2140	Promotional Mix: Sales Communication Strategies	2 s.h.
MKT 2210	Promotional Mix: Customer Service for Sales	1 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		9 s.h.

MATHEMATICS

Mathematics Major: Bachelor of Science (31 s.h.)

REQUIRED MAJOR COURSES:

MTH 2350	Probability and Statistics	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	Modern Algebra	3 s.h.
MTH 3410	Linear Algebra	3 s.h.
MTH 3510	Calculus with Analytic Geometry III	4 s.h.
MTH 4510	Introduction to Real Analysis	3 s.h.
MTH 4650	Foundations of College Geometry	3 s.h.

MTH 4950	Senior Seminar	<u>2 s.h.</u>
		31 s.h.

REQUIRED SUPPORT COURSE (3 s.h.)

CSC 2010	Web Fundamentals <i>or</i>	
CSC 2080	Computer Science I	3 s.h.

Mathematics Minor (22 s.h.)

REQUIRED MINOR COURSES:

MTH 2350	Probability and Statistics	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	Modern Algebra	3 s.h.
*MTH 3410	Linear Algebra	3 s.h.
*MTH 4650	Foundations of College Geometry	<u>3 s.h.</u>
		22 s.h.

**Required for secondary mathematics teacher preparation; students not in preparation for teaching may consult with a Mathematics advisor about electives.*

REQUIRED SUPPORT COURSE (3 s.h.)

CSC 2010	Web Fundamentals (3 s.h.) <i>or</i>	
CSC 2080	Computer Science I (3 s.h.)	

Mathematics for Elementary Certification Major: Bachelor of Science (30-31 s.h.)

The degree of Bachelor of Science with a major in Mathematics for Elementary Certification is available only at the completion of all requirements for the Elementary (K-8) Provisional teaching certificate. A student who begins the program for teacher certification but does not complete it for any reason must change to another major to complete degree requirements.

REQUIRED MAJOR COURSES:

MTH 1210	Precalculus	5 s.h.
MTH 2300	Business Calculus <i>or</i> MTH 2510 Calculus 1	4-5 s.h.
MTH 2330	Teaching and Learning of Number Concepts	3 s.h.
MTH 2350	Probability and Statistics	4 s.h.
MTH 3330	Algebraic Thinking and Proportional Reasoning	4 s.h.
MTH 3340	Geometry for Elementary Teachers	4 s.h.
MTH 4330	Reasoning and Proof in the Elementary Mathematics Classroom	2 s.h.
MTH 4340	Technology in the Elementary Mathematics Classroom	2 s.h.
MTH 4960	Senior Seminar: Issues in Elementary Mathematics Education	<u>2 s.h.</u>
		30/31 s.h.

Mathematics Minor for Elementary Certification (24 s.h.)

REQUIRED MINOR COURSES:

MTH 1210	Precalculus	5 s.h.
MTH 2300	Business Calculus <i>or</i>	
MTH 2510	Calculus with Analytic Geometry	4-5 s.h.
MTH 2330	Teaching and Learning of Number Concepts	3 s.h.
MTH 2350	Probability and Statistics	4 s.h.
MTH 3330	Algebraic Thinking and Proportional Reasoning	4 s.h.
MTH 3340	Geometry for Elementary Teachers	<u>4 s.h.</u>
		24 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 College of Science and Mathematics programs.*)

MEDICAL TECHNOLOGY

See listings under CLINICAL LABORATORY SCIENCES and CLINICAL LABORATORY TECHNICIAN.

MENTAL HEALTH

See listing under PSYCHOLOGY.

MERCHANDISING MANAGEMENT

Merchandising Management Major: Bachelor of Science (38 s.h.)

Completion of this major may be with either a Fashion Specialization or a General Retail Specialization.

REQUIRED MAJOR COURSES:

MM 1090	Introduction to Merchandising	3 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3480	Retail Buying	3 s.h.
MM 3630	Architectural Style and Interior Design	4 s.h.
MM 4910	Cooperative Education	2 s.h.
MM 4950	Senior Seminar	2 s.h.
Required Specialization: choose from Fashion Specialization or General Retail Specialization (see below)		<u>19 s.h.</u>
		38 s.h.

FASHION SPECIALIZATION:

MM 2370	Apparel Evaluation	3 s.h.
MM 2330	Design Principles	3 s.h.
MM 2620	Fashion Promotion and Coordination	3 s.h.
MM 3050	Textiles for Consumers	3 s.h.
MM 3310	History of Costume	3 s.h.
Merchandising Management electives		<u>4 s.h.</u>
		19 s.h.

REQUIRED SUPPORT COURSES WITH FASHION SPECIALIZATION:

ART 2070	Creative Design and Color	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		9 s.h.

GENERAL RETAIL SPECIALIZATION:

MM 3010	Specialty Merchandising	3 s.h.
MM 3080	Visual Merchandising	3 s.h.
MM 4300	Theories and Practice of Merchandising	2 s.h.
MM 4450	Retail Management	2 s.h.
Merchandising Management electives		<u>9 s.h.</u>
		19 s.h.

NOTE: Business Administration Minor required with General Retail Specialization.

Merchandising Management Major / Fashion Specialization: Associate of Science (25 s.h.)

REQUIRED MAJOR COURSES:

MM 1090	Introduction to Merchandising	3 s.h.
MM 2330	Design Principles	3 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 2620	Fashion Promotion and Coordination	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3050	Textiles for Consumers	3 s.h.
MM 3310	History of Costumes	3 s.h.
Merchandising Management electives		5 s.h.
		25 s.h.

REQUIRED SUPPORT COURSES:

MGT 2160	Human Behavior and Attitudes	2 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		8 s.h.

Merchandising Management Major / General Retail Specialization: Associate of Science (25 s.h.)

REQUIRED MAJOR COURSES:

MM 1090	Introduction to Merchandising	3 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3010	Specialty Merchandising or	
MM 3080	Visual Merchandising	3 s.h.
MM 3480	Retail Buying	3 s.h.
Merchandising Management electives		<u>11 s.h.</u>
		25 s.h.

REQUIRED SUPPORT COURSES:

MGT 2160	Human Behavior and Attitudes	2 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	<u>3 s.h.</u>
		8 s.h.

Merchandising Management Minor (21 s.h.)

REQUIRED MINOR COURSES:

MM 1090	Introduction to Merchandising	3 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3480	Retail Buying	3 s.h.
MM 3630	Architectural Style and Interior Design	4 s.h.
Merchandising Management electives		<u>6 s.h.</u>
		21 s.h.

Merchandising Management/Fashion Specialization Certificate of Achievement (30 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
MM 1090	Introduction to Merchandising	3 s.h.
MM 2330	Design Principles	3 s.h.
MM 2620	Fashion Promotion and Coordination	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3050	Textiles for Consumers	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
Merchandising Management electives		<u>7 s.h.</u>
		30 s.h.

Post-bachelor Certificate of Achievement requirements are the same as above, except that a Merchandising Management course is substituted for ENG 1010.

Merchandising Management/General Retail Specialization Certificate of Achievement (30 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
MM 1090	Introduction to Merchandising	3 s.h.
MM 2400	Principles of Retailing	3 s.h.
MM 2910	Cooperative Education	2 s.h.
MM 3010	Specialty Merchandising or	
MM 3080	Visual Merchandising	3 s.h.
MM 3480	Retail Buying	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
Merchandising Management electives		<u>7 s.h.</u>
		30 s.h.

Post-bachelor Certificate of Achievement requirements are the same as above, except that a Merchandising Management course is substituted for ENG 1010.

MUSIC

Music Major: Bachelor of Arts (43-51 s.h.)

General Music concentration *or*
Music Management concentration

Music Major: Bachelor of Music (65 s.h.)

Church Music concentration *or*
Instrumental Performance concentration *or*
Piano Performance concentration *or*
Vocal Performance concentration *or*
Music Education concentration

All music majors are required to pass an applied music audition in their primary instrument/voice, except in the Music Management concentration. We recommend that you meet this requirement before beginning the program. You may opt for provisional acceptance into the music program and postpone your audition until you complete four semesters of study (including Theory I-IV and applied music).

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.

In the event that you express interest in the music program but do not have at least two years' music experience, we recommend that you take applied piano and tutoring in basic theory skills (reading treble and bass clefs, major and minor scales, meter signatures, etc.) before taking Theory I (Music 1110).

All Music majors complete a 26 s.h. core curriculum in addition to an area of concentration as listed above. Students selecting a concentration in Church Music or in Music Management must also complete specified required support courses.

Participation in group performance is expected of all music majors each term they are enrolled as majors in the department. This is part of the music student's collegial obligation.

We enthusiastically welcome music minors into the music program. We recommend that you take your ten hours of applied music in one instrument; if you choose to study in more than one area, then a majority of the ten hours must be in one instrument.

Advanced placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of the Music Department, prior to registration, is required for all piano and voice courses.



Required (in all concentrations)

Music Core Courses:

THEORETICAL STUDIES:

MUS 1110	Theory I	4 s.h.
MUS 1120	Theory II	4 s.h.
MUS 1800	Introduction to Music Technology	2 s.h.
MUS 2110	Theory III	4 s.h.
MUS 2120	Theory IV	4 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	<u>3 s.h.</u>
		26 s.h.

*MUS 3330, 3340 satisfies the fine arts component of general education, Goal 3.B.

Areas of Concentration

General Music Concentration (B.A.):

REQUIRED CONCENTRATION COURSES:

MUS 3100	Diction <i>or</i>	
MUS 4040	Conducting and Performing Techniques <i>or</i>	
MUS 4070	Choral Techniques	2 s.h.
MUS 4010	Composition and Arranging	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
HUM 4960	Senior Seminar	3 s.h.
	Applied Music electives	12 s.h.
	Group Performance	<u>4 s.h.</u>
		25 s.h.
	Required Music core courses	<u>26 s.h.</u>
		51 s.h.

Music Management Concentration (B.A.):

REQUIRED CONCENTRATION COURSES:

MUS 3910, 4910	Music Management Cooperative Education I, II	2-4 s.h.
MUS 4950	Music Management Seminar	2 s.h.
HUM 4950	Senior Seminar	1 s.h.
	Major Applied Music electives	8 s.h.
	Group Performance	<u>4 s.h.</u>
		17-19 s.h.
	Required Music core courses	<u>26 s.h.</u>
		43-45 s.h.

REQUIRED SUPPORT COURSES:

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 2360	Principles of Management	3 s.h.
MKT 2440	Principles of Marketing	3 s.h.
MKT 2550	Consumer Behavior	<u>3 s.h.</u>
		18 s.h.

Church Music Concentration (B.Mus.):

REQUIRED CONCENTRATION COURSES:

MUS 4030	Form and Analysis	2 s.h.
MUS 4070	Choral Techniques	2 s.h.
MUS 4170	Church Music	2 s.h.
HUM 4950	Senior Seminar	1 s.h.
	Major Applied Music electives	16 s.h.
	Minor Applied Music electives	8 s.h.
	Group Performance	<u>8 s.h.</u>
		39 s.h.
	Required Music core courses	<u>26 s.h.</u>
		65 s.h.

REQUIRED SUPPORT COURSE:

RST 3490	Christian Worship	2 s.h.
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Instrumental Performance Concentration (B.Mus.):

REQUIRED CONCENTRATION COURSES:

MUS 4010	Composition and Arranging	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4040	Conducting and Performing Techniques	2 s.h.
MUS 4750	Special Topics in Music	2 s.h.
HUM 4950	Senior Seminar	1 s.h.
	Major Applied Music electives	16 s.h.
	Minor Applied Music electives	6 s.h.
	Group Performance	<u>8 s.h.</u>
		39 s.h.
	Required Music core courses	<u>26 s.h.</u>
		65 s.h.

Note: Junior and senior recitals are required of all performance majors.

Piano Performance Concentration (B.Mus.):

REQUIRED CONCENTRATION COURSES:

MUS 3540	Piano Pedagogy I	2 s.h.
MUS 3550	Piano Pedagogy II	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4750	Special Topics in Music	2 s.h.
HUM 4950	Senior Seminar	1 s.h.
	Applied Piano electives	16 s.h.
	Minor Applied Music electives	6 s.h.
	Group Performance	<u>8 s.h.</u>
		39 s.h.
	Required Music core courses	<u>26 s.h.</u>
		65 s.h.

Note: Junior and senior recitals are required of all performance majors.

Vocal Performance Concentration (B.Mus.):

REQUIRED CONCENTRATION COURSES:

MUS 3100	Diction	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4070	Choral Techniques	2 s.h.
MUS 4750	Special Topics in Music	2 s.h.
HUM 4950	Senior Seminar	1 s.h.
	Applied Voice electives	16 s.h.
	Minor Applied Instrument electives	6 s.h.
	Group Performance, MUS 2610, Lyric Theater	4 s.h.
	Group Performance, other	<u>4 s.h.</u>
		39 s.h.
	Required Music core courses	<u>26 s.h.</u>
		65 s.h.

Note: Junior and senior recitals are required of all performance majors.

Music Education Concentration (B.Mus.):

REQUIRED CONCENTRATION COURSES:

MUS 3630	Instrumental Techniques I	2 s.h.
MUS 3640	Instrumental Techniques II	2 s.h.
MUS 3650	Instrumental Techniques III	2 s.h.
MUS 4030	Form and Analysis	2 s.h.
MUS 4040	Conducting and Performing Techniques <i>or</i>	
MUS 4070	Choral Techniques	2 s.h.
MUS 3100	Diction <i>or</i>	
MUS 4010	Composition and Arranging	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.
HUM 4950	Senior Seminar	1 s.h.
	Applied Music electives	14 s.h.
	Group Performance	8 s.h.
	(2 semesters of MUS 2610 required for vocal majors)	<u>39 s.h.</u>
	Required Music core courses	<u>26 s.h.</u>
		65 s.h.

Note: Basic proficiency tests in theory, piano, and sightsinging are required of all music education majors after the sophomore level courses are completed.

Note further: The Music major with Music Education concentration, in conjunction with the Teacher Education Program, results in an endorsement to teach Music Education K-12 on either a Secondary Provisional teaching certificate or a Dual-Level Elementary/Secondary Provisional teaching certificate. Music endorsement is not available on an initial teaching certificate that is Elementary only.

Piano Pedagogy Certificate of Achievement (33 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
MUS 1110	Theory I	4 s.h.
MUS 1120	Theory II	4 s.h.
MUS 1210	Piano	2 s.h.
MUS 1220	Piano	2 s.h.
MUS 2110	Theory III	4 s.h.
MUS 2210	Piano	2 s.h.
MUS 2220	Piano	2 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	<u>2 s.h.</u>
		33 s.h.

* MUS 3330, 3340 satisfies the fine arts component of general education, Goal 3.B.

Music Minor (24 s.h.)

REQUIRED MINOR COURSES:

MUS 1110	Theory I	4 s.h.
MUS 1120	Theory II	4 s.h.
MUS 3330*	History of Music Literature I	3 s.h.
MUS 3340*	History of Music Literature II	3 s.h.
	Applied Music electives	10 s.h.
	(majority of hours to be taken in one area)	
		<u>24 s.h.</u>

NATURAL SCIENCE

Natural Science Major: Bachelor of Science (54 s.h.)

Consists of courses in the pure sciences of Biology, Chemistry, and Physics distributed in the following manner: a core of 22 s.h. in one area and a track of 16 s.h. in each of the other two. **Students working toward Teacher Certification should comply with the plan for Integrated Science (for grades 7-12 certification) or with the plan for General Science (for grades K-8 certification).**

BIOLOGY CORE*:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4950	Senior Seminar	<u>2 s.h.</u>
		22 s.h.

* MTH 2350 is required if the Biology core is selected.

CHEMISTRY CORE:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II <i>or</i>	
CHM 3610	Biochemistry I	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 4950	Senior Seminar	<u>2 s.h.</u>
		22 s.h.

PHYSICS CORE:

PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
PHY 2710	Fundamental Electronics	4 s.h.
PHY 3510	Modern Physics: Atomic and Nuclear	4 s.h.
PHY 4510	Electronics: Digital Techniques	4 s.h.
NSC 4950	Senior Seminar	<u>2 s.h.</u>
		22 s.h.

To complete a natural science major with a core in any of the above areas, students must also choose two of the following tracks which are different from the 22 s.h. core.

BIOLOGY TRACK:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	<u>4 s.h.</u>
		16 s.h.

CHEMISTRY TRACK:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 3610	Biochemistry I	<u>4 s.h.</u>
		16 s.h.

PHYSICS TRACK:

PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
PHY 3510	Modern Physics: Atomic and Nuclear	4 s.h.
PHY 4510	Electronics: Digital Techniques	<u>4 s.h.</u>
		16 s.h.

REQUIRED SUPPORT COURSES:

MTH 1050	Intermediate Algebra <i>and</i>	4 s.h.
MTH 1060	Trigonometry <i>or</i>	
MTH 1210	Precalculus	<u>3-5 s.h.</u>
		7-9 s.h.

Natural Science Major: Associate of Science (30 s.h.)**REQUIRED MAJOR COURSES:**

Biology course	4 s.h.
Chemistry course	4 s.h.
Physics course	4 s.h.
Major electives	<u>18 s.h.</u>
	30 s.h.

Associate of Science available in Pre-Nuclear Medicine Technology and Pre-Radiography: see listing under RADIOGRAPHY.

Natural Science Minor (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.

NUCLEAR MEDICINE TECHNOLOGY

See listing under RADIOGRAPHY.

NURSE PARALEGAL**Nurse Paralegal Post-BSN Certificate of Achievement (30 s.h.)**

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 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 4950	Legal Seminar and Practicum	4-6 s.h.
	LAW electives	<u>3-5 s.h.</u>
		30 s.h.

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 and Practicum, must be completed at Madonna University.

NURSING

Madonna University offers a Bachelor of Science in Nursing (BSN) degree for beginning nursing students, and a BSN completion degree for licensed practical nurses (LPNs) and registered nurses (RNs) from associate degree and diploma programs. The College of Nursing and Health also offers an accelerated RN-MSN pathway for currently practicing and experienced Registered Nurses (RNs) who are not prepared with the baccalaureate degree in nursing (BSN) and are seeking career mobility. The nursing program has been accredited since 1970 by the National League for Nursing (NLNAC), and beginning in 2006 by the Commission on Collegiate Nursing Education (CCNE).

The University also offers a Master of Science in Nursing (MSN) degree with majors in Nursing Administration, Adult Health: Clinical Nurse Specialist (CNS), Adult Health: Primary Care Nurse Practitioner, Adult Health: Primary and Palliative Care, a dual degree MSN/MBA and an M.S. in Hospice program. See the Graduate Studies Bulletin for information about these programs.

Program Description

The organizing framework that gives cohesion to the nursing curriculum uses an interactional model vitalized by Christian humanism. Students are first introduced to basic concepts of nursing care and then to advanced concepts of care for clients, families, and groups across the continuum of care that is congruent with community-based nursing practice. The complexity of concepts and nursing role increases as the student progresses through the program.

The theory portion of some undergraduate and graduate nursing courses is offered in an on-line format. There are also increasing opportunities to take some of the general education courses on-line or by other distance learning modalities.

Pre-Nursing Admission

Admission to Nursing is a two-step process, effective June 2005. Step 1 is Admission to Pre-Nursing, which occurs year-round. Step 2 is Admission to the Nursing Major, which occurs twice yearly, in February for Fall admissions and August for Winter admissions.

Step 1: Admission Requirements for Basic First Year students applying to Pre-Nursing

1. A minimum 2.75 grade point average in high school college preparatory courses.
2. ACT or Enhanced ACT scores indicating strong potential to succeed in the program (minimum 20 Composite score).
3. At least one year each of high school algebra, biology, and chemistry with a grade of C or higher.

Step 1: Admission Requirements for Transfer students applying to Pre-Nursing

1. A minimum 2.50 grade point average from another institution of higher learning.
2. At least one year each of high school algebra, biology, and chemistry with a grade of C or higher (documented by official high school transcript), **or** at least one semester of each at the college level with a grade of C or higher.

See page 20 of this Bulletin for additional details on the admission of transfer students.

Step 2: Admission Requirements for the Nursing Major

Students should apply for Admission to the Nursing Major by February 1st for Fall entrance to the major; by August 1st for Winter entrance.

The following are minimum requirements for consideration:

1. Expect to complete all prerequisites the semester prior to desired admission; a delay in completion of prerequisites would delay consideration for admission to the major.
2. Notify Nursing Admissions Committee in writing of desire and intent to begin the nursing major.
3. Overall Madonna GPA of 2.5 or higher.
4. Grade of C or higher in all science courses. NOTE: Students who have had more than one D or F grade in required support courses to the Nursing major will not be considered. A single course with a D or F grade must have been repeated, at Madonna, with a grade of C or better. A subsequent D or F grade in a nursing course will result in automatic dismissal.
5. Proficiency in basic academic skills as established through a standardized entrance test
6. Evidence of physical and emotional health to perform professional nursing responsibilities (submission of required College of Nursing Health forms).
7. Submission of signed Permission for a Criminal Records Check and Sex Offenders Registry Check, with satisfactory clearance verified by Madonna University.

Note: Once a student begins upper-level Nursing courses, the student must earn a grade of C or higher in all Nursing courses. The Nursing Department's dismissal policy states that two D/F grades in required support or Nursing courses, as well as two W grades in a Nursing course, result in automatic dismissal. This policy still applies when original grades are replaced.

Admission Requirements for RNs and LPNs applying to the Nursing program

RNs and LPNs are admitted directly to the Nursing major if the following requirements are met:

1. RNs and LPNs need official transcripts from colleges or post-secondary institutions attended.
2. Minimum transfer cumulative GPA of 2.5.
3. For LPN's: completion of at least one year of high school algebra, biology, and chemistry with a grade of C or higher (documented by official high school transcript), **or** one semester of each at the college level with a grade of C or higher.
4. Photocopy of current Michigan RN or LPN license.

5. Evidence of physical and emotional health to perform professional nursing responsibilities (submission of required College of Nursing Health forms).
6. Resume of professional work experience.
7. Submission of signed Permission for a Criminal Records Check and Sex Offenders Registry Check, with satisfactory clearance verified by Madonna University.
8. For LPN's: proficiency in math and reading skills as established through the Nurse Entrance Test (NET) Composite, Reading Comprehension, and Mathematics scores.

Nursing Major: Bachelor of Science in Nursing (Basic/generic students) (53 s.h.)

REQUIRED MAJOR COURSES:

NUR 3030	Health Assessment	3 s.h.
NUR 3060	Foundations of Psychosocial Care	2 s.h.
NUR 3220	Introduction to Nursing Therapeutic Interventions	6 s.h.
NUR 3270	Introduction to Professional Nursing Seminar	2 s.h.
NUR 3300	Nursing Role in Pharmacologic Management	3 s.h.
NUR 3310	Family Health Promotion Across the Life Span	3 s.h.
NUR 3320	Nursing Therapeutic Interventions	6 s.h.
NUR 3370	Professional Nursing Seminar II	2 s.h.
NUR 3900	Nursing Research	2 s.h.
NUR 4220	Family and Community Health Nursing Concepts II	4 s.h.
NUR 4250	Complex Nursing Therapeutic Interventions	6 s.h.
NUR 4270	Professional Nursing Seminar III	2 s.h.
NUR 4730	Nursing Leadership in Organizations and Communities	4 s.h.
NUR 4750	Community Health Nursing Roles	2 s.h.
NUR 4930	Senior Nursing Practicum	4 s.h.
NUR 4950	Senior Seminar in Professional Nursing	<u>2 s.h.</u>
		53 s.h.

REQUIRED SUPPORT COURSES:

BIO 2260	Microbiology	4 s.h.
BIO 2430	Anatomy and Physiology I	3 s.h.
BIO 2440	Anatomy and Physiology II	3 s.h.
BIO 3710	Pathophysiology	3 s.h.
CHM 1610	Introduction to Life Chemistry	4 s.h.
CIS 2380	Introduction to Computers or	
CSC 2080	Computer Science I	3 s.h.
FL 2100	Communication and Culture for Health Care Professionals	3 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 2450	Life Span Developmental Psychology	4 s.h.
RST 4110	Medical Ethics	3 s.h.
SOC 1010	Intro. to Sociology and Cultural Anthropology	<u>4 s.h.</u>
		42 s.h.

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 C in all nursing and required support courses, and a minimum cumulative GPA of 2.0.
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 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 nursing curriculum may be completed on a part-time basis.

Degree Completion Plan for RNs and LPNs

The Department of Nursing provides educational opportunities for Registered Nurses and Licensed Practical Nurses with career mobility aspirations. Building on the competencies acquired in their educational programs, the RNs and LPNs are expected to broaden their nursing theory base and to acquire and demonstrate synthesis of the natural and behavioral sciences. The program will prepare them for nurse leadership roles across the continuum of care and ready them for advanced study in nursing and related fields.

Degree completion students must meet all general education and support courses as required by the University. These courses may be transferred or the student may choose to earn additional credits by examination in psychology, anatomy/physiology, microbiology, sociology, art or music, and English literature. In recognition of nursing knowledge, the program provides opportunity for LPN students to earn nursing credits by examination and validate clinical competencies by examination.

Time to complete will vary with enrollment pattern, depending upon individual background and personal goals. The BSN requires a minimum total of 124 semester hours for graduation.

BSN Degree Completion Plan for Licensed Practical Nurses (LPNs) (43-53 s.h.)

REQUIRED MAJOR COURSES:

NUR 3030	Health Assessment	1-3 s.h.
NUR 3060	Foundations of Psychosocial Care	2 s.h.
NUR 3220	Introduction to Nursing Therapeutic Interventions	3-6 s.h.
NUR 3270	Introduction to Professional Nursing Seminar	2 s.h.
NUR 3300	Nursing Role in Pharmacologic Management	3 s.h.
NUR 3310	Family Health Promotion Across the Life Span	3 s.h.
NUR 3320	Nursing Therapeutic Interventions	6 s.h.
NUR 3370	Professional Nursing Seminar II	2 s.h.
<i>more</i>		
NUR 3900	Nursing Research	2 s.h.
NUR 4220	Family and Community Health Nursing Concepts II	4 s.h.
NUR 4250	Complex Nursing Therapeutic Interventions	6 s.h.
NUR 4270	Professional Nursing Seminar III	2 s.h.
NUR 4730	Nursing Leadership in Organizations and Communities	4 s.h.
NUR 4750	Community Health Nursing Roles	2 s.h.
NUR 4930	Senior Nursing Practicum	4 s.h.
NUR 4950	Senior Seminar in Professional Nursing	<u>2 s.h.</u>
		48-53 s.h.

The program can be completed in nine semesters of part-time study.

BSN Degree Completion Plan for Registered Nurses (RNs) (22 s.h.)

After completing 12 s.h. at Madonna University, RN students are eligible for 31 transcripted credits based on licensure. This does not include the maximum of 74 s.h. transferred from community colleges.

REQUIRED MAJOR COURSES:

NUR 3010	Transitions in Professional Nursing	4 s.h.
NUR 3040	Health Assessment for RNs	2 s.h.
NUR 3900	Nursing Research	2 s.h.
NUR 4220	Family and Community Health Nursing Concepts II	4 s.h.
NUR 4270	Professional Nursing Seminar III	2 s.h.
NUR 4730	Nursing Leadership in Organizations and Communities	4 s.h.
NUR 4750	Community Health Nursing Roles	2 s.h.
NUR 4950	Senior Seminar in Professional Nursing	<u>2 s.h.</u>
		22 s.h.

The program can be completed in five to six semesters of part-time study, with options for prior learning credit.

RN-MSN Accelerated Pathway

Students in this program earn a Bachelor of Science in Nursing (BSN) and a Master of Science in Nursing (MSN) degree with majors in Nursing Administration, Adult Health: Clinical Nurse Specialist (CNS), Adult Health: Primary Care Nurse Practitioner, Adult Health: Primary and Palliative Care, or a dual degree MSN/MBA. For additional information on this pathway, refer to the Graduate Bulletin or consult faculty in the College of Nursing and Health.

Admission Requirements for the Accelerated RN-MSN Pathway

This is the same as for RNs applying for the BSN program with the following additions/exceptions:

1. Minimum cumulative GPA of 3.0 on a 4.0 scale.
2. Two completed recommendations from professional associates who can assess the potential of the applicant for graduate study.
3. Interview with the RN-Degree Completion Coordinator, and the Chair of Nursing Graduate Programs.

Progression in the Accelerated RN-MSN Pathway

1. Students must earn a grade of C or higher in all Nursing courses while in the undergraduate phase of the program. A D or F grade in an undergraduate nursing course will dismiss the student from the accelerated pathway.
2. Once admitted to the Accelerated RN-MSN Pathway, a student who receives two grades of D or F in science or nursing courses is automatically dismissed from the Nursing major.
3. Students who participate in this accelerated pathway must satisfy all undergraduate nursing degree requirements and complete a minimum of 124 s.h. prior to being awarded the BSN degree, of which at least 30 semester hours must have been earned at Madonna University.
4. Students must maintain an overall GPA of 3.0 in order to progress seamlessly into the graduate phase of the program.
5. Students must achieve a grade of B or higher in each of the graduate classes taken in the undergraduate phase of the program in order to progress into the graduate phase of the program.
6. Nursing students in the RN-MSN Accelerated Pathway may earn their MSN degree with a minimum of 30 graduate credits in addition to those earned in the advanced placement phase of the baccalaureate degree.

BSN Segment of RN to MSN Pathway with 4 graduate courses substituted for selected undergraduate courses. GPA requirement 3.0. (Graduate credits in the BSN are not to exceed 15 s.h.)

REQUIRED MAJOR COURSES:

NUR 3010	Transitions in Professional Nursing	4 s.h.
NUR 3040	Health Assessment	2 s.h.
NUR 4220	Family and Community Health Nursing Concepts II	4 s.h.
NUR 5000	Theoretical Basis for Nursing Practice	3 s.h.
NUR 5210	Influencing Power and Politics in Health Care* (4th credit clinical option)	3-4 s.h.
NUR 5650	Professional Responsibilities in Health Care Systems* (4th credit clinical option)	3-4 s.h.
NUR 5760	Disciplined Inquiry for Nursing Practice	<u>3 s.h.</u>
		54-55 s.h.

* Students in the RN-MSN pathway take either NUR 5210 or NUR 5650 for 4 credits (to include a clinical) depending on professional experience and MSN specialty. Some students may require both clinicals, including students who stop out after the BSN and/or those lacking prior leadership experience.

NURSING HOME ADMINISTRATION

See listing under LONG TERM CARE ADMINISTRATION.

NUTRITION AND FOOD SCIENCE

Nutrition and Food Science Major: Bachelor of Science (36 s.h.)

REQUIRED MAJOR COURSES:

NFS 2250	Human Nutrition	4 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 3250	Clinical Nutrition I	4 s.h.
NFS 3260	Advanced Food Science	4 s.h.
NFS 4250	Advanced Human Nutrition	4 s.h.
NFS 4950	Senior Seminar	2 s.h.
	Major electives*	<u>14 s.h.</u>
		36 s.h.

* Major electives may be selected from all NFS courses.

REQUIRED SUPPORT COURSES:

BIO 2240	Basic Human Physiology	4 s.h.
BIO 2260	Microbiology	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1610	Introduction to Life Chemistry	<u>4 s.h.</u>
		16 s.h.

Nutrition and Food Science Major: Associate of Science (27-30 s.h.)

REQUIRED MAJOR COURSES:

NFS 2250	Human Nutrition	4 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 2380	Maternal and Child Nutrition	3 s.h.
NFS 2420	Nutrition for the Aging	3 s.h.
NFS 2930	Practicum	1-4 s.h.
NFS 3460	Food Service Management I	3 s.h.
NFS 3760	Food Service Laboratory	2 s.h.
NFS 4950	Senior Seminar	2 s.h.
	Major electives	<u>5 s.h.</u>
		27-30 s.h.

* Major electives may be selected from all NFS courses.

REQUIRED SUPPORT COURSES:

BIO 2240	Basic Human Physiology	4 s.h.
MGT 2360	Principles of Management	<u>3 s.h.</u>
		7 s.h.

Nutrition and Food Science Minor (21 s.h.)

REQUIRED MINOR COURSES:

NFS 2250	Human Nutrition	4 s.h.
NFS 2260	Introductory Food Science	4 s.h.
NFS 2380	Maternal and Child Nutrition	3 s.h.
NFS 2420	Nutrition for the Aging	3 s.h.
NFS 3260	Advanced Food Science	4 s.h.
	NFS elective	<u>3 s.h.</u>
		21 s.h.

OCCUPATIONAL SAFETY AND HEALTH

Occupational Safety and Health Minor (24 s.h.)

REQUIRED MINOR COURSES:

OSH 1020	Standards and Regulations	3 s.h.
OSH 3220	Inspection and Survey of Facilities	3 s.h.
OSH 3310	Safety Program Management	3 s.h.
OSH 3520	Industrial Hygiene I	3 s.h.
OSH 3980	Industrial Hygiene II	3 s.h.

OSH 4510	Hazardous Materials	3 s.h.
	Minor electives	<u>6 s.h.</u>
		24 s.h.

REQUIRED SUPPORT COURSES:

BIO 2240	Basic Human Physiology*	or	
NSC 1250	Health Problems*		4 s.h.
CHM 1110	General Chemistry I		4 s.h.
CHM 1610	Introduction to Life Chemistry		4 s.h.
MTH 1050	Intermediate Algebra		4 s.h.
MTH 1060	or 1210	Trigonometry or Precalculus	3-5 s.h.
PHY 2530	General Physics I		<u>4 s.h.</u>
			23-25 s.h.

* Students with current EMT licenses may apply for alternative credit for this requirement.

Occupational Safety and Health Certificate of Achievement (30 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 1010	Communication Skills I	3 s.h.
OSH 1020	Standards and Regulations	3 s.h.
OSH 3220	Inspection and Survey of Facilities	3 s.h.
OSH 3310	Safety Program Management	3 s.h.
OSH 3520	Industrial Hygiene I	3 s.h.
OSH 3980	Industrial Hygiene II	3 s.h.
OSH 4510	Hazardous Materials	3 s.h.
	Certificate electives	<u>9 s.h.</u>
		30 s.h.

Occupational Safety, Health, and Fire Science

Occupational Safety, Health, and Fire Science Major: Bachelor of Science (42 s.h.)

REQUIRED MAJOR COURSES:

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 2910	Cooperative Education I* or	
FS 2930	Internship I*	1-3 s.h.
FS 3220	Inspection and Survey of Facilities	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
FS 3910	Cooperative Education II** or	
FS 3930	Internship II**	1-3 s.h.
FS 4510	Hazardous Materials	3 s.h.
FS 4900	Fire Service Management	3 s.h.
OSH 1020	Standards and Regulations	3 s.h.
OSH 3310	Safety Program Management or	
OSH 3110	Industrial Safety and Health	3 s.h.
OSH 3520	Industrial Hygiene I	3 s.h.
OSH 3980	Industrial Hygiene II	3 s.h.
OSH 4950	Senior Seminar	2 s.h.
	Major electives	<u>1-7 s.h.</u>
		42 s.h.

REQUIRED SUPPORT COURSES:

BIO 224	Basic Human Physiology*** or	
BIO 2430 and 2440	Anatomy and Physiology I and II*** or	
NSC 1250	Health Problems***	4-6 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1610	Introduction to Life Chemistry	4 s.h.
MTH 1050	Intermediate Algebra	4 s.h.
MTH 1060	Trigonometry	
MTH 1210	Precalculus	3-5 s.h.

(more)

PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		27-31 s.h.

* Required for preservice associate and baccalaureate students.

** Required for preservice baccalaureate students.

*** Students with current EMT licenses may apply for alternative credit for this requirement.

Occupational Safety, Health, and Fire Science Major: Associate of Science (30 s.h.)

REQUIRED MAJOR COURSES:

FS 1010	Introduction to Fire Protection and Prevention	3 s.h.
FS 2150	Building Construction	3 s.h.
FS 2910	Cooperative Education I* <i>or</i>	
FS 2930	Internship I*	1-3 s.h.
FS 3220	Inspection and Survey of Facilities	3 s.h.
FS 3680	Fire Protection Systems I	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
FS 4510	Hazardous Materials	3 s.h.
OSH 1020	Standards and Regulations	3 s.h.
OSH 3310	Safety Program Management <i>or</i>	
FS 4900	Fire Service Management	3 s.h.
OSH 3520	Industrial Hygiene I	3 s.h.
Major electives		<u>0-2 s.h.</u>
		30 s.h.

REQUIRED SUPPORT COURSES:

BIO 2240	Basic Human Physiology*** <i>or</i>	
BIO 2430 <i>and</i> 2440	Anatomy and Physiology I <i>and</i> II*** <i>or</i>	
NSC 1250	Health Problems***	4-6 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1610	Introduction to Life Chemistry	4 s.h.
MTH 1050	Intermediate Algebra	4 s.h.
MTH 1060 <i>or</i> 1210	Trigonometry <i>or</i> Precalculus	3-5 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	<u>4 s.h.</u>
		27-31 s.h.

* Required for preservice associate and baccalaureate students.

** Required for preservice baccalaureate students.

*** Students with current EMT licenses may apply for alternative credit for this requirement.

Environmental Safety and Health Program (ESHP) Certificate of Completion (17 s.h.)

REQUIRED CERTIFICATE COURSES:

FS 3220	Inspection and Survey of Facilities	3 s.h.
FS 3690	Fire Protection Systems II	3 s.h.
OSH 1020	Standards and Regulations	3 s.h.
OSH 3110	Industrial Safety and Health	3 s.h.
OSH 3210	Construction Safety	2 s.h.
OSH 3980	Industrial Hygiene II	<u>3 s.h.</u>
		17 s.h.

OCCUPATIONAL TEACHER CERTIFICATION

(formerly called Vocational Authorization)

Interim Occupational Certification

Individuals who have worked two years (4,000 hours) in a particular health field or trade or industry, including child care services, hospitality services, or law enforcement, may earn an Interim Occupational Certificate (IOC; formerly called a Temporary Vocational Authorization or TVA), valid for teaching in State-reimbursed vocational classrooms

grades 9-12, provided that they also complete a bachelor degree program and have a major or minor in the health, trade, or industry area.

Alongside meeting the above requirements, the student must complete the Basic Skills Tests portion of the Michigan Tests for Teacher Certification (MTTC) and the below-listed courses (note that post-bachelor candidates must have a minimum of 12 s.h. of course work at Madonna University prior to certification):

REQUIRED IOC COURSES:

EDU 2000	Introduction to Professional Education Experiences	3 s.h.
EDU 3120	Educational Psychology	4 s.h.
EDU 3300	Exceptional Learner in the Classroom	3 s.h.
EDU 3460	Instructional Media	<u>2 s.h.</u>
		12 s.h.

IOC with a Secondary Provisional Teaching Certificate in Family and Consumer Sciences:

Students completing requirements for a Secondary Provisional teaching certificate with a major in Family and Consumer Sciences must meet the FCS-specific requirements for the Interim Occupational Certificate. The above-mentioned 4,000 hours of paid employment is replaced by the four FCS practica (FCS 2930, 2940, 3930, and 3940) and the candidate must complete EDU 4450, Foundations of Vocational Education, 2 s.h., along with all required Professional Education courses. See the listing under FAMILY AND CONSUMER SCIENCES.

Occupational Education Certification

Occupational Education Certificate for candidates who do not hold the Secondary teaching certificate:

Candidates who hold the IOC or TVA in any specialty, earned at Madonna University or elsewhere, who do not also hold a Secondary teaching certificate, may earn an Occupational Education Certificate (OEC) by meeting the following requirements:

- teach 3 years successfully in vocational classrooms;
- complete the Education Department's Praxis I requirement and the Admission to Teacher Education process described in the EDUCATION portion of this Bulletin; and
- complete the following additional credit on a post-bachelor status:*

REQUIRED OEC COURSES:

Required Specific Vocational Education Courses:

EDU 4450	Foundations of Vocational Education	2 s.h.
EDU 4590	Theory and Techniques of Instruction: Vocational Education (9-12)	4 s.h.

Remaining OEC Course Work:

Elective courses chosen in consultation with an Education advisor, such as:		3-4 s.h.
EDU 4120	Classroom Assessment (2 s.h.)	
EDU 4250	Literacy Education in the Secondary School (4 s.h.)	
EDU 4400	Behavior Management in the Classroom (2 s.h.)	
EDU 4800	Educational Foundations (3 s.h.)	
Selected Education workshops (1-3 sh.)		

9-10 s.h.

* Note that candidates who hold IOC's or TVA's which were earned prior to July 1, 2006, may need to meet the requirements listed above for the IOC before being eligible for the required vocational education courses for the OEC. A candidate's records are reviewed on an individual basis.

Occupational Education Certificate for candidates who also hold a Secondary teaching certificate:

Candidates who hold the IOC or TVA in any specialty, earned at Madonna University or elsewhere, who also hold a Secondary teaching certificate must meet the following requirements for an Occupational Education Certificate:

- teach 3 years successfully in vocational classrooms;
- complete at least 9 s.h. of credit (which will count fully toward the 18 s.h. of credit required for the Secondary Professional Education certificate) in Education department courses suitable for vocational teachers.

Note that candidates who hold IOC's or TVA's which were earned prior to July 1, 2006, may need to include in courses selected for their OEC some of the course requirements for a new IOC, or some part of the "Required Specific Vocational Education Courses" of the new OEC for candidates without the Secondary teaching certificate. A candidate's records are reviewed on an individual basis.

The required 9 s.h. of credit may be earned in a post-bachelor or graduate-level program. A full list of master's degree programs offered in the College of Education is found in the Graduate Bulletin.



PARALEGAL STUDIES

The mission of the Paralegal Studies department is to prepare two-year, four-year, and post-baccalaureate 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, multi-cultural society with a valuable skill. The mission also includes educating B.S.N. credentialed nurses to become nurse paralegals (see listing under NURSE PARALEGAL).

The objectives of the Paralegal Studies department are to produce an extremely competent and well-rounded individual who is able to assist an attorney in various areas of the law. These objectives are met through carefully designed academic requirements and extensive academic advising.

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 2570	Litigation	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 3670	Law Office Economics and Technology	3 s.h.
LAW 4950	Legal Seminar and Practicum/Cooperative Education	4-6 s.h.
	Major electives	<u>21-23 s.h.</u>
		42 s.h.

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 2570	Litigation	3 s.h.
LAW 3210	Legal Research and Writing II	3 s.h.
LAW 4950	Legal Seminar and Practicum/Cooperative Education	4-6 s.h.
	Major electives*	<u>12-14 s.h.</u>
		30 s.h.

* At least one elective must be a legal specialty course.

Paralegal Studies Post-Baccalaureate Certificate of Achievement (42 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 3670	Law Office Economics and Technology	3 s.h.
LAW 4950	Legal Seminar and Practicum/Cooperative Education	4-6 s.h.
	Major electives	<u>21-23 s.h.</u>
		42 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 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 and Practicum, must be completed at Madonna University.

PASTORAL MINISTRY

Application for candidacy to the Pastoral Ministry program includes a formal meeting with the Religious Studies Department chairperson. Formal admission as a major or minor takes place upon completion of the student's second semester of study at Madonna University.

Pastoral Ministry majors and minors are encouraged to further enhance their areas of service with a second major or minor. Madonna University offers a wide range of programs, including those for persons currently serving in ministerial roles.

Academic credit may be obtained through the process of evaluation of previous learning experiences. For further information, see the discussion under the Religious Studies listing.

Pastoral Ministry Major: Bachelor of Arts (34 s.h.)

REQUIRED MAJOR COURSES:

RST 2240	Theology of Ministry	2 s.h.
RST 2560	Old Testament: Torah and Historical Writings	3 s.h.
RST 2580	New Testament: The Four Gospels	3 s.h.
RST 3150	Spirituality	3 s.h.
RST 3490	Christian Worship	2 s.h.
RST 3610	Pastoral Counseling	2 s.h.
RST 4280	Church Law	2 s.h.
RST 4720	Church Leadership	3 s.h.

(more)

Morals/Ethics election, <i>to be chosen from</i>	3 s.h.
RST 4080 Moral Issues in Business (3 s.h.)	
RST 4090 Environmental Ethics (3 s.h.)	
RST 4100 Conscience and Values (3 s.h.)	
RST 4290 Christian Classics	3 s.h.
RST 4830 Sharing Your Faith	3 s.h.
HUM 4960 Senior Seminar	3 s.h.
Electives	<u>2 s.h.</u>
	34 s.h.

REQUIRED SUPPORT COURSES:

PHL 1010 Introduction to Philosophy	3 s.h.
PHL Second PHL elective	3 s.h.
SPH 1050 Speech Communication	3 s.h.
SOC 2330 Interviewing Techniques	3 s.h.
SW 2390 Empathy Listening Skills	<u>1 s.h.</u>
	13 s.h.

Pastoral Ministry majors complete the comprehensive examination requirement in HUM 4960, Senior Seminar, under the co-direction of the course coordinator and a designated RST professor.

Pastoral Ministry Minor (24 s.h.)

REQUIRED MINOR COURSES:

RST 2240 Theology of Ministry	2 s.h.
RST 2560 Old Testament: Torah and Historical Writings	3 s.h.
RST 2580 New Testament: The Four Gospels	3 s.h.
RST 3610 Pastoral Counseling	2 s.h.
Morals/Ethics election, <i>to be chosen from</i> :	3 s.h.
RST 4080 Moral Issues in Business (3 s.h.)	
RST 4090 Environmental Ethics (3 s.h.)	
RST 4110 Medical Ethics (3 s.h.)	
RST 4290 Christian Classics	3 s.h.
RST 4720 Church Leadership	3 s.h.
RST 4830 Sharing Your Faith	3 s.h.
Religious Studies elective	<u>2 s.h.</u>
	24 s.h.

REQUIRED SUPPORT COURSES:

PHL 1010 Introduction to Philosophy	3 s.h.
SPH 1050 Speech Communication	<u>3 s.h.</u>
	6 s.h.

**PIANO PEDAGOGY /
PIANO PERFORMANCE**

See listings under MUSIC.

PHILOSOPHY

The Philosophy major is taught at the Orchard Lake Center location. There are two Philosophy minor tracks, one taught on the Livonia campus, and one taught at the Orchard Lake Center.

Philosophy Major: Bachelor of Arts (34 s.h.)

REQUIRED MAJOR COURSES:

PHL 1060 The Philosophical Quest	4 s.h.
PHL 2010 Logic	3 s.h.
PHL 2060 Philosophy of the Human Person	3 s.h.
PHL 3060 Philosophy of God	3 s.h.
PHL 3710 Ancient and Medieval Philosophy	3 s.h.
PHL 3720 Modern and Contemporary Philosophy	3 s.h.
PHL 4040 Metaphysics	3 s.h.
PHL 4060 Ethics	3 s.h.
PHL 4950 Seminar with Thesis	3 s.h.
Major electives	<u>6 s.h.</u>
	34 s.h.

Philosophy Minor (Livonia Campus) (21 s.h.)

REQUIRED MINOR COURSES:

PHL 1010 Introduction to Philosophy	3 s.h.
PHL 2210 Person and Society	3 s.h.
Morals/Ethics election, <i>to be chosen from</i> :	3 s.h.
PHL 4080 Moral Issues in Business (3 s.h.)	
PHL 4090 Environmental Ethics (3 s.h.)	
PHL 4110 Medical Ethics (3 s.h.)	
PHL 4230 Survey of World Views and Value Systems	3 s.h.
Electives (<i>from existing Philosophy courses</i>)	<u>9 s.h.</u>
	21 s.h.

Students are to declare their Philosophy minor at the time of registration.

Philosophy Minor (Orchard Lake Center) (22 s.h.)

REQUIRED MINOR COURSES:

PHL 1060 The Philosophical Quest	4 s.h.
PHL 2060 Philosophy of the Human Person	3 s.h.
PHL 3060 Philosophy of God	3 s.h.
PHL 4060 Ethics	3 s.h.
PHL 3710 Ancient and Medieval Philosophy	3 s.h.
PHL 3720 Modern and Contemporary Philosophy	3 s.h.
Minor electives	<u>3 s.h.</u>
	22 s.h.

Transfer courses in Philosophy are assessed by the appropriate department or college to ensure that they meet the outcomes of the programs. The student may be required to count as electives courses transferred in to the program.

Physical Education

Physical Education Minor (24 s.h.)

REQUIRED MINOR COURSES:

BIO 2240 Basic Human Physiology	4 s.h.
PED 2000 History and Principles of Physical Education	3 s.h.
PED 2150 Health and Wellness	3 s.h.
PED 2350 Kinesiology	3 s.h.
PED 3250 Motor Development	2 s.h.
PED 3350 Adapted Physical Education	3 s.h.
PED 4500 Curriculum and Instruction in Physical Education	3 s.h.
PED 4550 Theory and Techniques of Teaching Physical Education	<u>3 s.h.</u>
	24 s.h.

PHYSICS

Physics Minor (20 s.h.)

REQUIRED MINOR COURSES:

PHY 2530 General Physics I	4 s.h.
PHY 2540 General Physics II	4 s.h.
PHY 2710 Fundamental Electronics	4 s.h.
PHY 3510 Modern Physics: Atomic and Nuclear	4 s.h.
PHY 4510 Electronics: Digital Techniques	<u>4 s.h.</u>
	20 s.h.

POLISH STUDIES

Polish Studies Major: Bachelor of Arts (42 s.h.)

REQUIRED MAJOR COURSES:

POL 1010	Elementary Polish I	3 s.h.
POL 1020	Elementary Polish II	3 s.h.
POL 1030	Life and Roots of John Paul II	3 s.h.
POL 2010	Intermediate Polish I	3 s.h.
POL 2020	Intermediate Polish II	3 s.h.
POL 2400	Masterpieces of Modern Polish Literature	3 s.h.
POL 3010	Advanced Polish I	3 s.h.
POL 3020	Advanced Polish II	3 s.h.
POL 3110	Communism: Its Rise, Disgrace and Fall	3 s.h.
POL 3210	After Communism: Democracy in the Making	3 s.h.
POL 3310	History and Appreciation of Polish Art	3 s.h.
POL 3510	Polish History to 1795	3 s.h.
POL 3520	Polish History Since 1795	3 s.h.
POL 4510	The Polish Americans	<u>3 s.h.</u>
		42 s.h.

Polish Studies Minor (21 s.h.)

REQUIRED MINOR COURSES:

POL 1000	Introduction to Poland	3 s.h.
POL 1010	Elementary Polish I	3 s.h.
POL 1020	Elementary Polish II	3 s.h.
POL 3310	History and Appreciation of Polish Art	3 s.h.
POL 3330	Poland through Polish Film	3 s.h.
POL 4300	Life and Death in Modern Polish Poetry	3 s.h.
POL 4510	The Polish Americans	<u>3 s.h.</u>
		21 s.h.

East/Central European Studies Minor (21 s.h.)

REQUIRED MINOR COURSES:

POL 1000	Introduction to Poland	3 s.h.
POL 2000	Understanding Cultures of East/Central Europe	3 s.h.
POL 2100	History of Eastern European Art	3 s.h.
POL 2220	Cinema of Former Czechoslovakia and Yugoslavia	3 s.h.
POL 3000	The History of East/Central Europe	3 s.h.
POL 3110	Communism: Its Rise, Disgrace, and Fall	3 s.h.
POL 3210	After Communism: Democracy in the Making	<u>3 s.h.</u>
		21 s.h.

Polish Translation Certificate of Completion (9 s.h.)

REQUIRED COURSES:

POL 4010	Studies in Polish Grammar	3 s.h.
POL 4020	Translation into English	3 s.h.
POL 4030	Translation into Polish	<u>3 s.h.</u>
		9 s.h.

Note: course prerequisites strictly observed.

POLITICAL SCIENCE

Political Science Minor (20 s.h.)

REQUIRED MINOR COURSES:

PSC 2510	American Government	4 s.h.
PSC 3010	International Relations <i>or</i>	
PSC 3210	Comparative Politics	4 s.h.
PSC 4510	State and Local Government	4 s.h.
	Minor electives	<u>8 s.h.</u>
		20 s.h.

Note: For those students seeking teacher certification, PSC 3010, International Relations, and PSC 3210, Comparative Politics, are both required. Note further that for teacher certification PSC 3100, Introduction to Public Administration, may not be counted in the minor.

PRE-ENGINEERING

Students may earn an engineering degree through special arrangements between Madonna University and the University of Detroit Mercy. Following a planned program fulfilling the degree requirements of each institution, the student may earn a Bachelor of Science degree from Madonna University and a Bachelor of Engineering degree from the University of Detroit Mercy.

The following course requirements apply specifically to the Madonna University/University of Detroit Mercy agreement:

GENERAL EDUCATION/CORE:

ENG 1020	Communication Skills II	3 s.h.
ENG 2000	Technical Writing <i>or</i>	
ENG 3260	Business and Professional Writing	3 s.h.
SPH 1050	Speech Communications	3 s.h.
PHL 1010	Introduction to Philosophy	3 s.h.
RST 1330-3530, 3750-4150, 4220		3 s.h.
PHL 1050-4220 <i>or</i> RST 1330-3530, 3750-4150, 4220		3 s.h.

Note: for selection of General Education courses in Humanities and Social Sciences for this program, consult the Program advisor in the Department of Physics and Applied Sciences.

MATHEMATICS AND SCIENCE COURSES:

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CSC 2480	Computer Science II	3 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
MTH 2520	Calculus with Analytic Geometry II	4 s.h.
MTH 3510	Calculus with Analytic Geometry III	4 s.h.
MTH 4530	Differential Equations	3 s.h.
MTH 3410	Linear Algebra	3 s.h.

Other 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 English, history, paralegal studies, political science, psychology, or other liberal arts.

PRE-NUCLEAR MEDICINE TECHNOLOGY

See listing under RADIOGRAPHY.



PRE-PHARMACY

Pre-Pharmacy: Associate of Science (42 s.h.)

REQUIRED PROGRAM COURSES:

BIO 1030	General Biology I	4 s.h.
BIO 2260	Microbiology	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
CIS 2250	Computer Fundamentals	2 s.h.
ECN 2710	Economics for Human Services	3 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
PHY 2530	General Physics I	4 s.h.
PSC 2510	American Government	4 s.h.
		<u>42 s.h.</u>

Pharmacy schools and programs vary in requirements for admission. Students should consult the Program advisor in the College of Science and Mathematics to become familiar with the exact requirements of the program(s) to which application will be made.

PRE-PROFESSIONAL PROGRAMS*

Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Osteopathy, 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 following basic courses:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
MTH 1210	Precalculus	5 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
		<u>37 s.h.</u>

*Schools and programs vary in requirements for admission. Students should consult the Program advisor in the College of Science and Mathematics to become familiar with the exact requirements of the program(s) to which application will be made.

PRE-RADIOGRAPHY

This Associate of Science in Natural Science program prepares the student to enter a clinical program in radiography accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) or a clinical program in nuclear medicine technology accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT).

Pre-Radiography/Pre-Nuclear Medicine Technology Major (Natural Science Major): Associate of Science (39 s.h.),

REQUIRED MAJOR COURSES:

AHA 1010	Medical Terminology	2 s.h.
AHA 2010	Introduction to Health Care Professions	2 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 2430	Anatomy and Physiology I	3 s.h.
BIO 2440	Anatomy and Physiology II	3 s.h.
CHM 1010 or 1110	General Chemistry I	4 s.h.
CHM 1610	Introduction to Life Chemistry	4 s.h.

CIS 2250	Computer Fundamentals	2 s.h.
MTH 1050	Intermediate Algebra	4 s.h.
MTH 1060	Trigonometry	3 s.h.
PHY 2530	General Physics I	4 s.h.
PHY 2540	General Physics II	4 s.h.
		<u>39 s.h.</u>

Clinical internship are processed through the Health Sciences Office in October and in January of each year. These are full-time 40-hour-per-week positions. Such clinical placements are competitive and are not guaranteed. Students may elect an out-of-state internship with departmental approval.

Internships are competitive and not guaranteed. They may require more than one application sequence. Note further that each clinical site has its own tuition requirements.

Radiography and Nuclear Medicine students register for internship credit while on clinical rotation: RT 1100, RT 1150, RT 1500, and RT 2000 (8 s.h. each).

PRIVATE INVESTIGATION / PRIVATE SECURITY

See listing under CRIMINAL JUSTICE.

PROFESSIONAL AND TECHNICAL WRITING

Professional and Technical Writing Major: Bachelor of Arts (40 s.h.)

REQUIRED MAJOR COURSES:

ENG 2000	Technical Writing	3 s.h.
ENG 2620	Language and Culture	3 s.h.
ENG 3260	Business and Professional Writing <i>or</i>	
ENG 3440	Advanced Technical Writing	3 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 2050	Public Relations Writing	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
SPH 1050	Speech Communication	3 s.h.
ENG 3960 and 4960	Portfolio I and II <i>or</i>	
HUM 4960	Senior Seminar	3 s.h.

Major electives, *to be chosen from:* 16 s.h.

CIS 2850	Web Design for Business Applications
CIS 3420	Computer Graphics in Business (2 s.h.)
ENG 2090	Approaches to Grammar (4 s.h.)
ENG 2950	Critical Writing and Literary Analysis (4 s.h.)
ENG 3000	Children's Literature and Drama (4 s.h.)
ENG 3050	Creative Writing (3 s.h.)
ENG 3100	Advanced Composition (3 s.h.)
ENG 3440	Advanced Technical Writing (3 s.h.)
ENG 4380	Literature for Young Adults (3 s.h.)
JRN 2860	Editorial and Feature Writing (3 s.h.)
JRN 3130	Photography I (3 s.h.)
JRN 3140	Photography II (3 s.h.)
JRN 3160	Newspaper Production (2 s.h.)
JRN 3510	Television Production Techniques I (3 s.h.)
JRN 3570	Editing and Copyreading (3 s.h.)
JRN 3710	Scriptwriting, Proposal Writing, and Budgeting for Television (3 s.h.)
JRN 4050	Advanced Public Relations (3 s.h.)
JRN 4160	Advanced Newspaper Production (2 s.h.)
JRN 4910	Journalism/Public Relations Practicum (1-4 s.h.)

MKT 2440 Principles of Marketing (3 s.h.)
MKT 2550 Consumer Behavior (3 s.h.)
MKT 3070 Promotional Strategy (3 s.h.)

40 s.h.

Professional and Technical Writing Minor (24 s.h.)

REQUIRED MINOR COURSES:

ENG 2000	Technical Writing	3 s.h.
ENG 3260	Business and Professional Writing	3 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 2050	Public Relations Writing	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
SPH 1050	Speech Communication	3 s.h.
Minor electives, to be chosen from list of electives above.		6 s.h.
		24 s.h.

Professional and Technical Writing Post-Baccalaureate Certificate of Completion (21 s.h.)

REQUIRED CERTIFICATE COURSES:

ENG 2000	Technical Writing	3 s.h.
ENG 3260	Business and Professional Writing	3 s.h.
ENG 3100	Advanced Composition and Research Strategies	3 s.h.
JRN 2050	Public Relations Writing	3 s.h.
CIS 2850	Web Design for Business Applications	3 s.h.
Electives, two of the following three courses		6 s.h.
ENG 3440 Advanced Technical Writing (3 s.h.)		
ENG 3050 Creative Writing (3 s.h.)		
JRN 4050 Advanced Public Relations (3 s.h.)		
		21 s.h.

NOTE: See also the Writing and Media Studies major on page 96.

PSYCHOLOGY

Psychology Major / General Concentration: Bachelor of Science (36 s.h.)

REQUIRED MAJOR COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
PSY 1030	Tools for Success in Psychology	1 s.h.
PSY 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 4300	Cognitive Psychology <i>or</i>	
PSY 4500	Physiological Psychology	3-4 s.h.
PSY 4950	Seminar in Psychology	2 s.h.
Psychology Content Distribution Requirement (see below)		9-12 s.h.
PSY major electives		1-5 s.h.
		36 s.h.

RECOMMENDED ELECTIVE:

ENG 2000	Technical Writing	3 s.h.
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RECOMMENDED SUPPORT COURSE:

MTH 2350	Probability and Statistics	4 s.h.
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**PSYCHOLOGY CONTENT DISTRIBUTION REQUIREMENT:

To satisfy the Psychology Content Distribution Requirement in the Psychology Major and the Psychology Minor, students must select one course from three of the following seven areas (total 9-12 s.h.).

Students in the **Psychology Major-Research Concentration** choose one course from three of five areas, not including Biological or Cognitive (total 9-12 s.h.):

(1) DEVELOPMENTAL:

PSY 2450	Life Span Developmental Psychology (4 s.h.)
PSY 2700	Child Psychology (4 s.h.)
PSY 3070	Psychology of Aging (3 s.h.)
PSY 3130	Adolescent Psychology (4 s.h.)

(2) SOCIAL:

PSY 3660	Social Psychology: Psychological Perspective (4 s.h.)
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(3) PERSONALITY:

PSY 4220	Theories of Personality (4 s.h.)
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(4) CLINICAL:

PSY 2760	Psychological Testing and Measurement (3 s.h.)
PSY 3720	Introduction to Clinical Psychology (3 s.h.)

(5) BIOLOGICAL:

PSY 4500	Physiological Psychology (3 s.h.)
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(6) COGNITIVE:

PSY 4300	Cognitive Psychology (4 s.h.)
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(7) INDUSTRIAL/ORGANIZATIONAL:

PSY 3520	Industrial/Organizational Psychology (3 s.h.)
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Psychology Major / Business Concentration: Bachelor of Science (45-46 s.h.)

REQUIRED MAJOR COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
PSY 1030	Tools for Success in Psychology	1 s.h.
PSY 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 3520	Industrial/Organizational Psychology	3 s.h.
PSY 3660	Social Psychology	4 s.h.
PSY 4220	Theories of Personality	4 s.h.
PSY 4300	Cognitive Psychology <i>or</i>	
PSY 4500	Physiological Psychology	3-4 s.h.
PSY 4950	Seminar in Psychology	2 s.h.
MGT 2360	Principles of Management	3 s.h.
Focus area: choose Group A, Human Resource Focus, <i>or</i> Group B, Marketing Focus (see below):		9-10 s.h.
		45-46 s.h.

GROUP A, HUMAN RESOURCE FOCUS:

MGT 3020	Organizational Behavior	3 s.h.
MGT 3100	Strategic Human Resources Planning	3 s.h.
MGT 3270	Human Resource Development	3 s.h.
MGT 4910	Cooperative Education*	1 s.h.
		9-10 s.h.

* Required only for students who are not employed full-time.

GROUP B, MARKETING FOCUS:

MKT 2440	Principles of Marketing	3 s.h.
MKT 2550	Consumer Behavior	3 s.h.
MKT	Upper-level elective, choose one from:	3 s.h.
MKT 3660 Business Marketing		
MKT 3680 Marketing Communications		
MKT 3870 Sales Management		
MGT 4910	Cooperative Education*	1 s.h.
		9-10 s.h.

* Required only for students who are not employed full-time.

Psychology Major / Mental Health Concentration: Bachelor of Science (48-49 s.h.)

REQUIRED MAJOR COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 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 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 3720	Introduction to Clinical Psychology	3 s.h.
PSY 3750	Mental Health Treatment Theories	3 s.h.
PSY 4500	Physiological Psychology	3 s.h.
PSY 4700	Mental Health Field Placement and Seminar I	5 s.h.
PSY 4710	Mental Health Field Placement and Seminar II	5 s.h.
PSY 4950	Seminar in Psychology	2 s.h.
PSY	Developmental Psychology elective - choose one from:	3-4 s.h.
	PSY 2700, Child Psychology (4 s.h.)	
	PSY 3070, Psychology of Aging (3 s.h.)	
	PSY 3130, Adolescent Psychology (4 s.h.)	
		48-49 s.h.
		36 s.h.

RECOMMENDED ELECTIVE:

ENG 2000	Technical Writing	3 s.h.
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RECOMMENDED SUPPORT COURSE:

MTH 2350	Probability and Statistics	4 s.h.
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Psychology Major / Research Concentration: Bachelor of Science (45-47 s.h.)

REQUIRED MAJOR COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
PSY 1030	Tools for Success in Psychology	1 s.h.
PSY 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 4300	Cognitive Psychology	4 s.h.
PSY 4500	Physiological Psychology	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.
PSY 4950	Seminar in Psychology	2 s.h.
	Psychology Content Distribution Requirement (see above under Psychology major)	13-15 s.h.
		45-47 s.h.

RECOMMENDED ELECTIVES:

ENG 2000	Technical Writing	3 s.h.
PHL 3650	Epistemology: Philosophy of Knowledge	3 s.h.

RECOMMENDED SUPPORT COURSE:

MTH 2350	Probability and Statistics	4 s.h.
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Psychology Minor (20 s.h.)

(Not available for PSY majors)

REQUIRED MINOR COURSES:

A minimum of eight (8) s.h. must be taken at the upper division.

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	3 s.h.
PSY 1030	Tools for Success in Psychology	1 s.h.
PSY 4300	Cognitive Psychology or	
PSY 4500	Physiological Psychology	3-4 s.h.
	Psychology Content Distribution Requirement**	9-12 s.h.
	PSY minor electives	0-3 s.h.
		20 s.h.

Mental Health Minor (26 s.h.)

(Not available for PSY majors)

REQUIRED MINOR COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
PSY 1030	Tools for Success in Psychology	1 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 3750	Mental Health Treatment Theories	3 s.h.
PSY 4500	Physiological Psychology	3 s.h.
PSY 4700	Mental Health Field Placement and Seminar I	5 s.h.
		26 s.h.

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

Students planning to be certified by the State of Michigan Board of Certified Addiction Professionals as a Certified Addiction Counselor I (CAC-I) should seek additional information from the Addiction Studies advisor.

REQUIRED CERTIFICATE COURSES:

PSY 1010	General Psychology	3 s.h.
AS 2000	Addiction Studies: General Information	1 s.h.
AS 3430	Addiction Studies: Focus on the Individual	1 s.h.
AS 3440	Addiction Studies: Family Systems	1 s.h.
	Addiction Studies electives	6 s.h.
		12 s.h.

Forensic Psychology Certificate of Completion (17 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 3420	Abnormal Psychology	4 s.h.
PSY 3820	Forensic Psychology (CJ/FOR)	3 s.h.
PSY 4220	Theories of Personality	4 s.h.
		17 s.h.

Mental Health Certificate of Completion (26 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 2760	Psychological Testing and Measurement	3 s.h.
PSY 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 3420	Abnormal Psychology	4 s.h.
PSY 3720	Introduction to Clinical Psychology	3 s.h.
PSY 3750	Mental Health Treatment Theories	3 s.h.
PSY 4700	Mental Health Field Placement and Seminar I	5 s.h.
		26 s.h.

PREREQUISITE COURSE:

PSY 1010	General Psychology	3 s.h.
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Psychology Certificate of Completion (20 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
PSY 1030	Tools for Success in Psychology	1 s.h.
	PSY Content Area/Research Skills courses chosen in consultation with PSY Advisor; at least 8 s.h. must be upper-level	15 s.h.
		20 s.h.

Research Methods Certificate of Completion (19 s.h.)

REQUIRED CERTIFICATE COURSES:

PSY 1020	Controversies in Psychology: A Critical Thinking Approach	4 s.h.
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PSY 1030	Tools for Success in Psychology	1 s.h.
PSY 2830	Research and Quantitative Methods I	4 s.h.
PSY 2840	Research and Quantitative Methods II	4 s.h.
PSY 4850	Advanced Research and Quantitative Methods I	3 s.h.
PSY 4860	Advanced Research and Quantitative Methods II	<u>3 s.h.</u>
		19 s.h.

QUALITY AND OPERATIONS LEADERSHIP

See listing under MANAGEMENT.

RADIOGRAPHY

See listing under PRE-RADIOGRAPHY.

RELIGIOUS STUDIES

Application for candidacy to the Religious Studies program includes a formal meeting with the Religious Studies Department chairperson.

Formal admission to the major or minor takes place at the conclusion of the student's second semester at Madonna University.

RST 3450, Catholicism, 3 s.h., and RST 3470, The Sacraments, 3 s.h., are designed basically within the Catholic tradition but are not restricted to persons of that religious persuasion. All other courses are ecumenical in content and method of presentation. Note also, a variety of contemporary religious/moral/ethical topics are presented in 1 and 2 s.h. workshops throughout the academic year.

Following evaluation by the RST/PHL Department, academic credit may be earned for completion of courses and programs offered through the Detroit Archdiocesan Department of Religious Education and the Detroit Area Consortium of Catholic Colleges, as well as Spectrum, Stephen Ministry, ministerial apprenticeship, chaplaincy, or pastoral service. The evaluation process is to be initiated by the student at the beginning of a semester, following a meeting with the Religious Studies Department chairperson. Highly personal experiences (retreats, sacramental life, spiritual direction, personal/shared prayer, etc.) are not included in the Life Experience evaluation process.

Religious Studies Major: Bachelor of Arts (30 s.h.)

REQUIRED MAJOR COURSES:

RST 2560	Old Testament: Torah and Historical Writings	3 s.h.
RST 2570	Old Testament: Prophets, Wisdom and Apocalyptic Writings	3 s.h.
RST 2580	New Testament: The Four Gospels	3 s.h.
RST 2590	New Testament: Acts, Epistles, and Revelation	3 s.h.
	Morals/Ethics election, <i>to be chosen from:</i>	3 s.h.
	RST 4080 Moral Issues in Business (3 s.h.)	
	RST 4090 Environmental Ethics (3 s.h.)	
	RST 4110 Medical Ethics (3 s.h.)	
RST 4290	Christian Classics	3 s.h.
RST 4830	Sharing Your Faith	3 s.h.
HUM 4960	Senior Seminar	3 s.h.
	Major electives	<u>6 s.h.</u>
		30 s.h.

REQUIRED SUPPORT COURSES:

PHL 1010	Introduction to Philosophy	3 s.h.
PHL	Second PHL course	<u>3 s.h.</u>
		6 s.h.

Religious Studies majors complete the comprehensive examination requirement in HUM 4960, Senior Seminar, under the co-direction of the course coordinator and a designated RST professor.

Religious Studies Major: Associate of Arts (30 s.h.)

REQUIRED MAJOR COURSES:

PHL 1010	Introduction to Philosophy	3 s.h.
RST 2560	Old Testament: Torah and Historical Writings	3 s.h.
RST 2570	Old Testament: Prophets, Wisdom and Apocalyptic Writings	3 s.h.
RST 2580	New Testament: The Four Gospels	3 s.h.
RST 2590	New Testament: Acts, Epistles, and Revelation	3 s.h.
	Morals/Ethics election, <i>to be chosen from:</i>	3 s.h.
	RST 4080 Moral Issues in Business (3 s.h.)	
	RST 4090 Environmental Ethics (3 s.h.)	
	RST 4110 Medical Ethics (3 s.h.)	
RST 4290	Christian Classics	3 s.h.
RST 4830	Sharing Your Faith	3 s.h.
	Religious Studies electives	<u>6 s.h.</u>
		30 s.h.

Persons seeking an associate degree are encouraged to select elective courses that apply to the ministry in which they operate.

Religious Studies Minor (20 s.h.)

REQUIRED MINOR COURSES:

RST 2560	Old Testament: Torah and Historical Writings	3 s.h.
RST 2570	Old Testament: Prophets, Wisdom and Apocalyptic Writings	3 s.h.
RST 2580	New Testament: The Four Gospels	3 s.h.
RST 2590	New Testament: Acts, Epistles and Revelation	3 s.h.
	Morals/Ethics election, <i>to be chosen from:</i>	3 s.h.
	RST 4080 Moral Issues in Business (3 s.h.)	
	RST 4090 Environmental Ethics (3 s.h.)	
	RST 4110 Medical Ethics (3 s.h.)	
	Minor electives	<u>5 s.h.</u>
		20 s.h.

REQUIRED SUPPORT COURSE:

PHL 1010	Introduction to Philosophy	3 s.h.
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RETAIL MERCHANDISING

See listings under MERCHANDISING MANAGEMENT.

RN to BSN, RN to MSN

See listings under NURSING.

SACRED THEOLOGY

Sacred Theology Major: Bachelor of Arts (36 s.h.)

REQUIRED MAJOR COURSES:

THL 1500	Introduction to Catholic Theology	3 s.h.
THL 2150	History of the Catholic Church	3 s.h.
THL 2500	Revelation and Sacred Scripture	3 s.h.
THL 2900	New Testament	3 s.h.
THL 2990	Principles of Catholic Social Doctrine	3 s.h.
THL 3200	Catholic Moral Theology	3 s.h.
THL 3333	Sacraments and Liturgy	3 s.h.
THL 3440	Mariology	3 s.h.
THL 4100	Ecclesiology	3 s.h.
THL 4220	Christology	3 s.h.
THL 4930	Internship	1-3 s.h.
THL 4950	Senior Thesis	1 s.h.
	Major electives, selected from THL courses	<u>2-4 s.h.</u>
		36 s.h.

more

REQUIRED SUPPORT COURSES:

PHL 1060	The Philosophical Quest	4 s.h.
PHL 2060	Philosophy of the Human Person <i>or</i>	
PHL 2260	Introduction to Political Theory and Catholic Social Thought (THL)	3-4 s.h.
PHL 3060	Philosophy of God	3 s.h.
PHL 4060	Ethics	3 s.h.
RST 4290	Christian Classics <i>or</i>	
POL 1030	Life and Roots of John Paul II	<u>3 s.h.</u>
		16-17 s.h.

Sacred Theology Minor (25-27 s.h.)**REQUIRED MINOR COURSES:**

THL 1500	Introduction to Catholic Theology	3 s.h.
THL 2150	History of the Catholic Church	3 s.h.
THL 2500	Revelation and Sacred Scripture	3 s.h.
THL 3200	Catholic Moral Theology	3 s.h.
THL 3333	Sacraments and Liturgy	3 s.h.
THL 4100	Ecclesiology	3 s.h.
THL 4220	Christology	3 s.h.
THL 4930	Internship	1-3 s.h.
	Minor elective	<u>3 s.h.</u>
		25-27 s.h.

REQUIRED SUPPORT COURSES:

PHL 1060	The Philosophical Quest <i>and</i>	4 s.h.
PHL 2060	Philosophy of the Human Person <i>or</i>	
PHL 3060	Philosophy of God <i>or</i>	
PHL 4060	Ethics	<u>3 s.h.</u>
		7 s.h.

Theology courses taken for credit outside of St. Mary's College of Madonna University are assessed by the Theology advisor according to the outcomes of the Sacred Theology program. Students may be required to apply transfer courses in Theology to elective credit in the major or minor.

SALES SPECIALIST

See listing under MARKETING.

SIGN LANGUAGE STUDIES

American Sign Language (ASL) is the language of the American Deaf Community. ASL has become a serious area of study for individuals interested in communicating and working with Deaf persons. The Sign Language Studies/Interpreting Department offers students the opportunity to develop ASL communication skills and an understanding of the language and its community. Interpreting courses are also offered for students interested in Sign language interpretation. Second language teaching methods include: structural, functional, and communicative approaches to language learning.

Emphasis is placed on the sociocultural aspects of American Deaf Culture and the right of Deaf children and adults to learn and use American Sign Language.

Students pursuing a bachelor degree in Sign language studies are encouraged to consider a second major as well. Such program planning assists the student in developing career-related skills by integrating other majors with the SLS major. (See chart of Madonna University Majors.)

Students can be admitted to the interpreter program by completing the SLS core and meeting departmental language requirements. Students may also be admitted to the interpreting concentration if interested in interpreter upgrading or preparation for certification. Please direct all questions to the SLS/Interpreting department.

Sign Language Studies Major: Bachelor of Arts**(44-53 s.h.)****REQUIRED MAJOR COURSES:**

SLS 1000	Sign Language in Society	3 s.h.
SLS 1010	Beginning American Sign Language I	4 s.h.
SLS 1020	Beginning American Sign Language II	4 s.h.
SLS 2010	Intermediate American Sign Language I	4 s.h.
SLS 2020	Intermediate American Sign Language II	4 s.h.
SLS 2280	Fingerspelling I	1 s.h.
SLS 2290	Fingerspelling II	1 s.h.
SLS 3010	Advanced American Sign Language I	3 s.h.
SLS 3020	Advanced American Sign Language II	3 s.h.
SLS 4620	Sign Language Structure	4 s.h.
HUM 4950	Senior Seminar*	<u>1 s.h.</u>
		32 s.h.

Concentration: choose either SLS Interpreting
or SLS Professional Studies (see below) 14-22 s.h.
46-54 s.h.

* HUM 4950 required for all SLS majors pursuing Bachelor of Arts degree.

SLS INTERPRETING CONCENTRATION:

SLS 4410	Fundamentals of Interpretation and Transliteration	4 s.h.
SLS 4450	Simultaneous Interpretation for Interpreters	3 s.h.
SLS 4610	Voice to Sign: Interpreting Lab	3 s.h.
SLS 4650	Contrastive Text Analysis: ASL and English for Interpreters	3 s.h.
SLS 4710	Selected Seminar Topics	1-4 s.h.
SLS 4720	Interpreting for Deaf-Blind People	1-4 s.h.
SLS 4750	Interpreting in Specialized Settings	3 s.h.
SLS 4810	Sign to Voice: Interpreting Lab	3 s.h.
SLS 4930	Field Experience	<u>1-16 s.h.</u>
		22 s.h.

SLS PROFESSIONAL STUDIES CONCENTRATION:

Minimum of 14 hours to be chosen from:

SLS 2110	Orientation to Deafness	3 s.h.
SLS 3310	Deaf Culture	3 s.h.
SLS 3450	Deafness and Community Resources	3 s.h.
SLS 4010	American Sign Language: Discourse	3 s.h.
SLS 4020	American Sign Language: Deaf Literature	3 s.h.
SLS 4030	ASL Drama	1-3 s.h.
SLS 4280	Simultaneous Communication	3 s.h.
SLS 4710	Selected Seminar Topics	<u>1-4 s.h.</u>
		minimum 14 s.h.

Sign Language Studies Major: Associate of Arts**(31 s.h.)****REQUIRED MAJOR COURSES:**

SLS 1000	Sign Language in Society	3 s.h.
SLS 1010	Beginning American Sign Language I	4 s.h.
SLS 1020	Beginning American Sign Language II	4 s.h.
SLS 2010	Intermediate American Sign Language I	4 s.h.
SLS 2020	Intermediate American Sign Language II	4 s.h.
SLS 2280	Fingerspelling I	1 s.h.
SLS 2290	Fingerspelling II	1 s.h.
SLS 3010	Advanced American Sign Language I	3 s.h.
SLS 3020	Advanced American Sign Language II	3 s.h.
SLS 4620	Sign Language Structure	<u>4 s.h.</u>
		31 s.h.

Sign Language Studies Certificate of Achievement**(34 s.h.)****REQUIRED COURSES:**

ENG 1010	Communication Skills	3 s.h.
SLS 1000	Sign Language in Society	3 s.h.
SLS 1010	Beginning American Sign Language I	4 s.h.

SLS 1020	Beginning American Sign Language II	4 s.h.
SLS 2010	Intermediate American Sign Language I	4 s.h.
SLS 2020	Intermediate American Sign Language II	4 s.h.
SLS 2280	Fingerspelling I	1 s.h.
SLS 2290	Fingerspelling II	1 s.h.
SLS 3010	Advanced American Sign Language I	3 s.h.
SLS 3020	Advanced American Sign Language II	3 s.h.
SLS 4620	Sign Language Structure	<u>4 s.h.</u>
		34 s.h.

Sign Language Studies Minor (31 s.h.)

REQUIRED MINOR COURSES:

SLS 1000	Sign Language in Society	3 s.h.
SLS 1010	Beginning American Sign Language I	4 s.h.
SLS 1020	Beginning American Sign Language II	4 s.h.
SLS 2010	Intermediate American Sign Language I	4 s.h.
SLS 2020	Intermediate American Sign Language II	4 s.h.
SLS 2280	Fingerspelling I	1 s.h.
SLS 2290	Fingerspelling II	1 s.h.
SLS 3010	Advanced American Sign Language I	3 s.h.
SLS 3020	Advanced American Sign Language II	3 s.h.
SLS 4620	Sign Language Structure	<u>4 s.h.</u>
		31 s.h.

SOCIAL STUDIES

Social Studies Major: Bachelor of Arts (40 s.h.)

1. REQUIRES 40 S.H. (22 S.H. UPPER DIVISION) DISTRIBUTED AS FOLLOWS:

- Coursework must include classes from the following:
HIS, PSC, ECN, and GEO
- 18 s.h. core (9 s.h. upper division) in HIS or PSC only
- SSC 4950 (4 s.h.)

2. CANDIDATES MUST ALSO INCLUDE THE FOLLOWING:

HISTORY

- Minimum of 8 s.h. in United States History, which must include
HIS 2310 United States to 1900 (4 s.h.)
HIS 4530 United States in the Twentieth Century (4 s.h.)
- One of the following:
HIS 1080 Ancient World (4 s.h.)
HIS 2450 Medieval and Renaissance Europe (4 s.h.)
HIS 3300 Early Modern Europe (4 s.h.)
HIS 3330 Modern Europe, 1815-Present (4 s.h.)
- HIS 4630 Emerging Nations (3 s.h.)
- HIS elective (3 s.h.)

POLITICAL SCIENCE

- PSC 2510 American Government (4 s.h.)
- One of the following:
PSC 3010 International Relations (4 s.h.)
PSC 3210 Comparative Politics (4 s.h.)
PSC 4510 State and Local Government (4 s.h.)

ECONOMICS

- ECN 2710 Economics for Human Services (3 s.h.)
- ECN 4510 Economic and Business History of the U.S. (4 s.h.)

GEOGRAPHY

- GEO 1210 Introduction to Geography (3 s.h.)
- GEO 3010 World Regional Geography (4 s.h.)

Note: No more than one course from the Polish Studies curriculum may be counted in the total credits toward a Social Studies major or Social Studies minor.

Social Studies Minor (26 s.h.)

REQUIRES 26 S.H. (12 S.H. UPPER DIVISION) DISTRIBUTED AS FOLLOWS:

HISTORY:

- One of the following:
HIS 2310 United States to 1900 (4 s.h.)
HIS 4530 United States in the Twentieth Century (4 s.h.)
- One of the following:
HIS 1080 Ancient World (4 s.h.)
HIS 2450 Medieval and Renaissance Europe (4 s.h.)
HIS 3300 Early Modern Europe (4 s.h.)
HIS 3330 Modern Europe, 1815-Present (4 s.h.)
HIS 4630 Emerging Nations (3 s.h.)

POLITICAL SCIENCE

- PSC 2510 American Government (4 s.h.)
- One of the following:
PSC 3010 International Relations (4 s.h.)
PSC 3210 Comparative Politics (4 s.h.)
PSC 4510 State and Local Government (4 s.h.)

ECONOMICS

- ECN 2710 Economics for Human Services (3 s.h.)
- ECN 4510 Economic and Business History of the U.S. (4 s.h.)

GEOGRAPHY

- GEO 1210 Introduction to Geography (3 s.h.)
- GEO 3010 World Regional Geography (4 s.h.)

NOTE: The Social Studies minor does not apply to teacher certification programs.

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, organizations, and/or communities within Generalist Practice.

Nondiscrimination Policy

The Social Work program provides a learning context that appreciates and recognizes the positive value of diversity. The program does not discriminate on the basis of race, color, gender, age, creed, religious, ethnic, or national origin, disability, political orientation, or sexual orientation.

Social Work Distance Learning Program—Gaylord

The Social Work Program offers its B.S.W. degree program to students in Northern Michigan over interactive television (two way audio/video) 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.

Admission to the B.S.W. Program

Students must apply for admission into the program after completing SW 2300 with a grade of C or better and completion of the required support courses with a C 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 general education requirements are required at the time of admission. Applications to the social work program are accepted two times yearly, corresponding with the completion of SW 2300. Only students formally admitted to the program are permitted to enroll in 4000-level SW classes.

Students may take SW 2300 as a corequisite with SW 3350 and SW 3400 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.

Social Work Major: Bachelor of Social Work (47 s.h.)

REQUIRED MAJOR COURSES:

SW 2300	Introduction to Social Work	4 s.h.
SW 3350	Generalist Practice Methods I	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.
SW 3500	Social Welfare	4 s.h.
SW 3700	Generalist Practice Methods II	4 s.h.
SW 4350	Generalist Practice Methods III	3 s.h.
SW 4500	Social Policy	4 s.h.
SW 4700	Generalist Practice Methods IV	3 s.h.
SW 4800	Field Practicum I	4 s.h.
SW 4850	Field Practicum Seminar I	2 s.h.
SW 4870	Social Work Research	4 s.h.
SW 4900	Field Practicum II	4 s.h.
SW 4950	Field Practicum Seminar II	<u>2 s.h.</u>
		47 s.h.

These courses must be taken in sequence. Students must successfully complete a total of 60 hours of service learning at the sophomore and junior levels and 400 hours of field experience at the senior level.

REQUIRED SUPPORT COURSES:

Biology election, <i>to be chosen from</i>		3-4 s.h.
BIO 1010	Introductory Biology (4 s.h.)	
BIO 3150	Human Genetics and Society (3 s.h.)	
NSC 1250	Health Problems (4 s.h.)	
CIS 2380	Introduction to Computers	3 s.h.
PSC 2510	American Government	4 s.h.
PSY 1010	General Psychology	3 s.h.
SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
SW 2390	Empathy Listening Skills	1 s.h.
SOC 4140	Conflict Resolution	<u>1 s.h.</u>
		19-20 s.h.

SOCIOLOGY

Sociology Major: Bachelor of Arts (34 s.h.)

REQUIRED MAJOR COURSES:

SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
SOC 2210	Social Issues and Movements	4 s.h.
SOC 2900	Social Theory	2 s.h.
SOC 3670	Social Psychology: Identity and Society	4 s.h.
SOC 4420	Urban Community	4 s.h.
SOC 4900	Social Research Methods	4 s.h.
SOC 4950	Sociology Seminar	2 s.h.
	Major electives*	<u>10 s.h.</u>
		34 s.h.

* Electives:

- Electives may be chosen from remaining classes in Sociology course listing (see Course Descriptions section of Bulletin).
- Students may elect sociology workshops (1-2 s.h.) that are periodically offered. A maximum of two (2) Addiction Studies (AS) courses may also be used as electives.
- Students may also choose one of the following courses as an elective: (1) CJ*/SOC 3210, Principles of Criminology (3 s.h.); (2) HIS*/SOC 3220, Race, Ethnicity, and Class in American Life (4 s.h.); (3) CJ*/SOC 3230, Juvenile Justice (3 s.h.); (4) RST*/FCS/SOC 3530, Marriage and the Family (4 s.h.); (5) GER*/SOC 4150, Social Gerontology (3 s.h.).

Students are encouraged to discuss expanding career opportunities in sociology with their sociology advisor.

Sociology Minor (20 s.h.)

REQUIRED MINOR COURSES:

SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
SOC 2210	Social Issues and Movements	4 s.h.
	Select one of:	3-4 s.h.
	SOC 3130	Sociology of the Family (3 s.h.)
	SOC 3220	Race, Ethnicity, and Class in American Life (4 s.h.)
	SOC 3800	Sex and Gender Roles (4 s.h.)
	Select one of:	1-3 s.h.
	SOC 3680	Social Change in the Sixties (2 s.h.)
	SOC 3710	Special Topics in Sociology (1-3 s.h.)
	Minor electives*	<u>7-8 s.h.</u>
		20 s.h.

* Electives may be chosen from remaining classes in sociology course description listing (see Sociology (SOC)). At least four (4) semester hours must be upper division. A maximum of two (2) Addiction Studies (AS) courses may be used as an elective in this category.

Community Leadership Certificate of Completion (15 s.h.)

REQUIRED COURSES:

SOC 1300	Introduction to Community Leadership	1 s.h.
SOC 1010	Introduction to Sociology and Cultural Anthropology	4 s.h.
RST 3100	Franciscan Values, Social Justice and Service	3 s.h.
MGT 3160	Human Behavior and Leadership	2 s.h.
SOC 4890	Seminar in Community Leadership	3 s.h.
	Additional Service Learning course in student's major:	<u>2 s.h.</u>
		15 s.h.

SPANISH

Spanish Major: Bachelor of Arts (30 s.h. beyond elementary level.*)

SPA 2230	Intermediate Spanish I	4 s.h.
SPA 2240	Intermediate Spanish II	4 s.h.
SPA 3310	Oral and Written Composition	4 s.h.
SPA 3220	Spain: Culture and Civilization or	
SPA 3230	Latin America: Culture and Civilization	4 s.h.
SPA 3570	Literature in Spanish I (Beginnings to 1850) or	
SPA 3580	Literature in Spanish II (1850-Present)	4 s.h.
	Electives	<u>10 s.h.</u>
		30 s.h.

Spanish Minor (20 s.h. beyond elementary level. *)

REQUIRED COURSES FOR MAJOR OR FOR MINOR:

SPA 2230	Intermediate Spanish I	4 s.h.
SPA 2240	Intermediate Spanish II	4 s.h.
SPA 3310	Oral and Written Composition	4 s.h.
SPA 3220	Spain: Culture and Civilization <i>or</i>	
SPA 3230	Latin America: Culture and Civilization	4 s.h.
SPA 3570	Literature in Spanish I (Beginnings to 1850) <i>or</i>	
SPA 3580	Literature in Spanish II (1850-Present)	<u>4 s.h.</u>
		20 s.h.

* SPA 1010, SPA 1020, are elementary level courses not applicable toward major or minor.

Spanish majors and minors are encouraged to inquire about opportunities for study abroad.

SPEECH COMMUNICATION

Speech Communication Minor (20 s.h.)

REQUIRED MINOR COURSES:

SPH 1050	Speech Communication	3 s.h.
SPH 2550	Oral Interpretation of Literature	3 s.h.
SPH 3300	Public Speaking	3 s.h.
	Minor electives, to be chosen from:	11 s.h.
JRN 4010	Foundations of Mass Communication (3 s.h.)	
SOC 2330	Interviewing Techniques (3 s.h.)	
SOC 3160	Group Dynamics and Discussion Techniques (4 s.h.)	
SPH 3000	Children's Literature and Drama (4 s.h.)	
SPH 3410	Acting Techniques I (4 s.h.)	
SPH 3420	Acting Techniques II (4 s.h.)	
SPH 4150	Film Appreciation (4 s.h.)	
TVC 2510	Survey of Telecommunications (3 s.h.)	
TVC 3510	Television Production Techniques I (3 s.h.)	
TVC 3520	Television Production Techniques II (3 s.h.)	
TVC 3810	Field Production and Editing I (3 s.h.)	<u>4 s.h.</u>
		20 s.h.

SPORT MANAGEMENT

Sport Management Major: Bachelor of Science (39 s.h.)

REQUIRED MAJOR COURSES:

SM 1100	Introduction to Sport Management	3 s.h.
SM 2100	Media Relations in Sport	3 s.h.
SM 2300	Sport as Popular Culture	3 s.h.
SM 2910	Sport Management Practicum	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 for Sport	3 s.h.
SM 4500	Gender and Race in Sport	3 s.h.
SM 4930	Sport Management Internship	3 s.h.
SM 4950	Seminar in Sport Management	<u>2 s.h.</u>
		30 s.h.

Required concentration: *choose either Business or Journalism (see below)*

9 s.h.
39 s.h.

REQUIRED SUPPORT COURSES:

BL 3330	Business Law I	3 s.h.
MKT 2440	Marketing	<u>3 s.h.</u>
		6 s.h.

BUSINESS CONCENTRATION

Select 9 s.h. from the following:

ACC 2000	Survey of Accounting	3 s.h.
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CIS 2850	Web Design for Business Applications	3 s.h.
MGT 2360	Principles of Management	3 s.h.
MGT 3020	Organizational Behavior	<u>3 s.h.</u>

minimum 9 s.h.

JOURNALISM CONCENTRATION

Select 9 s.h. from the following:

JRN 2050	Public Relations Writing	3 s.h.
JRN 3160	Newspaper Production (<i>sport reporting</i>)	2 s.h.
JRN 4050	Advanced Public Relations	3 s.h.
JRN 4160	Adv. Newspaper Production (<i>sport editing</i>)	2 s.h.
JRN 4750	Special Topics: Sport Journalism	<u>1 s.h.</u>

minimum 9 s.h.

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	Sport as Popular Culture	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 for Sport	3 s.h.
SM 4500	Gender and Race in Sport	<u>3 s.h.</u>
		24 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	Sport as Popular Culture	3 s.h.
SM 2910	Sport Management Practicum	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 for Sport	3 s.h.
SM 4500	Gender and Race in Sport	3 s.h.
SM 4930	Sport Management Internship	3 s.h.
SM 4950	Seminar in Sport Management	<u>2 s.h.</u>
		30 s.h.

TELEVISION AND VIDEO COMMUNICATIONS

Students majoring in Television and Video Communications are prepared for professional employment in broadcast/commercial and corporate/educational communication areas. The program uses an integrated theoretical and practical hands-on approach with traditional and on-line classes and practical field training, offering a major, a minor, and an associate degree.

Students are prepared to work in a broadcast TV studio, a production facility, a corporate in-house production group, or, with completion of requisite education courses/certification/employment, to teach television production at the high school level (see in this Bulletin OCCUPATIONAL TEACHER CERTIFICATION).

Television and Video Communications Major: Bachelor of Arts (40 s.h.)

REQUIRED MAJOR COURSES:

SPH 1050	Speech Communication <i>or</i>	
SPH 3300	Public Speaking	3 s.h.
TVC 2510	Survey of Telecommunications	3 s.h.
TVC 3510	Television Production Techniques I	3 s.h.
TVC 3520	Television Production Techniques II	3 s.h.

TVC 3710	Scriptwriting, Proposal Writing, and Budgeting for Television	3 s.h.
TVC 3810	Field Production and Editing I	3 s.h.
TVC 3820	Field Production and Editing II	3 s.h.
TVC 4110	Television News Reporting and Production	3 s.h.
TVC 4510	Directing and Producing for Television	3 s.h.
TVC 4910	Cooperative Education	1-3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
ENG 3960 and 4960	Portfolio I and II or	
HUM 4960	Senior Seminar	3 s.h.
	Major electives, <i>to be chosen from</i> :	4 s.h.
	SPH 3410 Acting Techniques I (4 s.h.)	
	SPH 3420 Acting Techniques II (4 s.h.)	
	SPH 4150 Film Appreciation (4 s.h.)	
	TVC 4910 Cooperative Education (1-4 s.h.)	
	TVC Workshops* (1-3 s.h.)	
		40 s.h.

Television and Video Communications Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

SPH 1050	Speech Communication	3 s.h.
TVC 2510	Survey of Telecommunications	3 s.h.
TVC 3510	Television Production Techniques I	3 s.h.
TVC 3520	Television Production Techniques II	3 s.h.
TVC 3810	Field Production and Editing I	3 s.h.
TVC 3820	Field Production and Editing II	3 s.h.
	Major electives (<i>see above</i>)	6 s.h.
		24 s.h.

Television and Video Communications Minor (24 s.h.)

REQUIRED MINOR COURSES:

TVC 2510	Survey of Telecommunications	3 s.h.
TVC 3510	Television Production Techniques I	3 s.h.
TVC 3520	Television Production Techniques II	3 s.h.
TVC 3810	Field Production and Editing I	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
	Minor electives, <i>to be chosen from</i> :	9 s.h.
	SPH 1050 Speech Communication (3 s.h.)	
	SPH 3410 Acting Techniques I (4 s.h.)	
	SPH 3420 Acting Techniques II (4 s.h.)	
	TVC 3710 Scriptwriting, Proposal Writing, and Budgeting for Television (3 s.h.)	
	SPH 4150 Film Appreciation (4 s.h.)	
	TVC 4510 Directing and Producing for Television (3 s.h.)	
	TVC 4910 Cooperative Education (1-4 s.h.)	
	TVC Workshops* (1-3 s.h.)	
		24 s.h.

* Note: Specialized workshops, in addition to courses listed in this Bulletin, are offered to keep the student up-to-date in these fast changing fields. Discuss with an advisor the workshop electives you would like to include in your plan.

THEOLOGY

See listing under SACRED THEOLOGY.

VISUAL ARTS EDUCATION

See listing under ART.

VOCAL PERFORMANCE

See listing under MUSIC.

VOCATIONAL AUTHORIZATION

See listing under OCCUPATIONAL TEACHER CERTIFICATION.

WRITING AND MEDIA STUDIES

This major develops media expertise for work in corporate, government, and similar settings. Students who wish to prepare to teach media subjects in middle schools and high schools are referred to the major in Communication Arts for Secondary Teachers.

Writing and Media Studies Major: Bachelor of Arts (40 s.h.)

REQUIRED MAJOR COURSES:

ENG 3100	Advanced Composition	3 s.h.
ENG 3260	Business and Professional Writing or	
ENG 2000	Technical Writing	3 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 2860	Editorial and Feature Writing	3 s.h.
JRN 4010	Foundations of Mass Communication	3 s.h.
SPH 1050	Speech Communication	3 s.h.
SPH 3300	Public Speaking	3 s.h.
TVC 2510	Survey of Telecommunications	3 s.h.
TVC 3510	Television Productions Techniques I	3 s.h.
TVC 3810	Field Production and Editing	3 s.h.
ENG 3960 and 4960	Portfolio I and II or	
HUM 4960	Senior Seminar	3 s.h.
	Major electives*	7 s.h.
		40 s.h.

* To be chosen from the following: additional ENG writing courses, 3000- or 4000-level ENG literature courses, Journalism, Speech, Television and Video Communication, or Foreign Language.

Writing and Media Studies Major: Associate of Arts (24 s.h.)

REQUIRED MAJOR COURSES:

ENG 3100	Advanced Composition	3 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 3160	Newspaper Production	2 s.h.
SPH 1050	Speech Communication	3 s.h.
TVC 2510	Survey of Telecommunications	3 s.h.
	Electives, to be chosen from major requirements or electives listed above	10 s.h.
		24 s.h.

Writing and Media Studies Minor (24 s.h.)

REQUIRED MINOR COURSES:

ENG 3100	Advanced Composition	3 s.h.
JRN 1320	Newspaper Reporting	3 s.h.
JRN 3160	Newspaper Production	2 s.h.
SPH 1050	Speech Communication	3 s.h.
TVC 2510	Survey of Telecommunications	3 s.h.
	Minor electives, <i>to be chosen from major requirements or electives</i>	1 s.h.
		24 s.h.

NOTE: See also the Professional and Technical Writing major on page 88.



Section III:

Course

Descriptions



Course Descriptions

WHAT FOLLOWS IS A DESCRIPTION of all the 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:

PSC 4050 Constitutional Law (CJ*/LAW)

This course originates in the Criminal Justice (CJ) Department. The full course description is found at CJ 4050.

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.

Numbers below 1000 designate Developmental Courses (e.g., ENG 0990). Developmental courses are designed to strengthen college level skills. Remedial courses, however, are not counted toward the degree requirements. These credits are used for such things as calculating athletic and financial aid eligibility, credit load, tuition charges, and the Madonna University career GPA.

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 2010).

3xxx = 3000 level courses are open to juniors, seniors, and other qualified students (e.g., NSC 3250).

4xxx = 4000 level courses are open to seniors and other qualified students (e.g., HIS 4630).

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 courses.

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 from doing so habitually.

The difficulty of course work increases with hundreds place only (i.e., CIS 3850 is not necessarily more difficult than CIS 3300.)

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. Prerequisites: MTH 1050 or equivalent and CIS 2380.

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 3130 Internal Financial Analysis

2-3 s.h.

Study of management's use of internal accounting information for planning, managing, controlling and evaluation of business operations. Topics include: cost concepts and costing techniques (including activity-based costing), budgeting, cost-volume-profit analysis, standard costing, performance evaluation, and product pricing. Prerequisites: ACC 2020 and MGT 2360. *Must be taken at Madonna University. CIS majors should select ACC 3130 for 2 s.h. All other School of Business majors must take ACC 3130 for 3 s.h.*

ACC 3400 Accounting Information Systems

4 s.h.

A study of fundamental principles of accounting and information systems data. Analysis related primarily to corporations and to cost accounting 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, including an analysis of computer usage for accounting applications. Emphasis on the interrelationships among the components of an accounting system and the use of the personal computer in the maintenance and reporting of accounting information. Prerequisites: CIS 2380 and ACC2010.

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 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 as it applies to partnerships, consolidated financial statements, bankruptcy, and international accounting. Prerequisite: ACC 3040.

ACC 4060 Government and Non-Profit Accounting 3 s.h.

Emphasis placed on in-depth analysis of accounting principles and procedures applicable to governmental units and non-profit organizations. Prerequisite: ACC 3040.

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 Advanced Managerial/Cost Accounting 3 s.h.

Advanced 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, transfer pricing, interrelationship with operations research, and strategic control systems. Prerequisites: ACC 3130, FIN 3150, MKT 2440 and QS 3550. *Must be taken at Madonna University.*

ACC 4710-4750 Seminars 1-3 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 4710 Brunch with an Expert Seminar 1 s.h.**ACC 4720 Literature Review Seminar 3 s.h.****ACC 4730 Research Seminar 3 s.h.****ACC 4740 General Topic Seminar 1-3 s.h.****ACC 4750 Leadership Seminar 1 s.h.**

Addiction Studies (AS)

AS 2000 Addiction Studies: General Information 1 s.h.

Introduction to the field of addiction studies and the scope of chemical dependency issues in the United States. Definition of terms, review of different theories of addiction, examination of the disease concept of chemical dependency, 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 Addiction Studies: Special Populations 1 s.h.

Examination of the special needs, issues, and interventions for diverse populations with chemical dependency problems: the scope of the problem, survey of ethnic and racial groups, cultural sensitivity, intervention approaches, and discussion of 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 manage-

ment, problem solving, use of cognitive-behavioral, and solution-oriented and relapse prevention approaches.

AS 3390 Addiction Studies: Dual Diagnosis 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 Addiction Studies: Focus on the Individual 1 s.h.

Identification of the individual with a chemical dependency disorder: the stages of addiction, assessment instruments, care management, and relapse prevention.

AS 3440 Addiction Studies: Family Systems 1 s.h.

Chemical dependency and the family: analysis of family roles, rules, relationships, and rituals. Discussion of the dynamics of codependency, adult children of chemically dependent families, family violence, and resources for 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 Addiction Studies: AIDS 1 s.h.

An introduction to issues relevant to the chemical dependency treatment field as it encounters the impact of HIV/AIDS: factors related to treatment considerations, methods for reducing high risk behaviors, prevention measures, high risk groups, social interventions, and epidemiologic and psychiatric data. Also, pertinent information on the connection between drug usage and HIV/AIDS in the treatment field.

AS 3560 Addiction Studies: Grief and Loss 1 s.h.

The grief and loss issues that confront individuals in recovery: concerns such as family dysfunction, interpersonal loss, life review and repair, and life-style changes discussed in the context of chemical dependency treatment.

AS 3570 Addiction Studies: Staff and Program Development 1 s.h.

An introduction to developing effective chemical dependency treatment programs. Emphasis on program design, grant writing, funding, human resource development, team building, conflict resolution, and supervision.

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 Studies: 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 (GER) 1 s.h.

The issues of chemical dependency and the older adult. Focus on assessment, psychosocial factors, treatment strategies, model program designs, and other community resources that address this high-risk client population.

AS 3650 Addiction Studies: Women 1 s.h.

Identification of the issues specifically related to women with addictions. Discussion include the emotional dynamics of guilt

and shame, the impact of societal values, obstacles to treatment, and state-of-the-art intervention approaches.

AS 3760 Gambling Addiction 1 s.h.

An introduction to the dynamics of gambling as an addictive behavior: the scope of the problem, types of gamblers, state-of-the-art testing instruments, intervention strategies, and multifaceted family issues. Special populations, such as adolescents and older adults are highlighted.

AS 3870 Neurobiology of Drug Addiction 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 procedures 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 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.

Allied Health Administration (AHA)

AHA 1010 Medical Terminology 2 s.h.

Development of medical vocabulary with emphasis on anatomical terms, diseases, symptoms, treatments, and acceptable medical abbreviations.

AHA 2010 Introduction to Health Care Professions (MTE) 2 s.h.

Investigation of health professions, including both careers involving direct patient care and those encompassing support services (as laboratory, health information/medical records, and health administration). Academic, professional, and certification requirements of health professions are explored. An overview of technical and procedural direction is provided to ensure successful entry into clinical practice. Students visit health career practitioners on-site as part of class. *Required of MLT, MTE, NMT, and RTE programs and suggested for students considering transferring to professional programs at either the undergraduate or graduate level.*

AHA 3750 Allied Health Management (MGT*) 3 s.h.

AHA 3800 Health Care Organization 2 s.h.

Overview of legislative, judicial, and political decisions which influence the workings of the health care industry. Examination of issues affecting the roles of health professionals as providers and consumers.

AHA 3930 Internship I 1-6 s.h.

Supervised experience in health care administration. Prerequisite: departmental approval.

AHA 3940 Internship II 1-6 s.h.

Supervised experience in health care administration. Prerequisite: AHA 3930.

AHA 4250 Health Care Law and Public Policy (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 to negligence and malpractice. Issues relative to confidentiality, documentation, informed consent, conflict of law, risk management, and advanced directives.

AHA 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 2000 and ECN 2710.

AHA 4760 Issues in Health Care Administration (MTE) 3 s.h.

Current concepts of administrative practice in allied health occupations. Institutional assessment and practices which impact on responsibility, liability, and quality issues. Prerequisites: MGT 2360 and MGT 3750.

AHA 4780 Educational Principles for Health Care Personnel (MTE) 2 s.h.

Principles of educational practice for health care professionals. Preparation and presentation of materials for staff development and patient education.

AHA 4900 Fundamentals of Health Care Research 2 s.h.

Introduction to the planning, conducting, and presentation of an analytical study of a topic of contemporary clinical significance. Prerequisite: senior status in major. *Required for major.*

AHA 4950 Senior Seminar 2 s.h.

Preparation and presentation of major paper in allied health discipline. Prerequisites: AHA 4900 and departmental approval. *Required for major.*

Applied Science (APS)

APS 2910 Cooperative Education I 1-4 s.h.

Supervised work experience in a professional setting related to the student's area of specialization. Prerequisite: approval of advisor.

APS 2930 Internship I 1-4 s.h.

Supervised work experience in a professional setting related to the student's area of specialization. Prerequisite: approval of advisor.

APS 3020 Field Experience 1-4 s.h.

Credit awarded to individuals for evidence of completion of licensure programs in a technical field and/or full-time employment of two or more years in applied technology. Documentation of competencies required.

APS 3910 Cooperative Education II 1-4 s.h.

Advanced semi-professional level assignments in on-the-job applications related to the student's area of specialization. Prerequisite: approval of advisor.

APS 3930 Internship II 1-4 s.h.

Advanced semi-professional level assignments in on-the-job applications related to the student's area of specialization. Prerequisite: approval of advisor.

APS 4950 Senior Seminar 2 s.h.

Preparation and presentation of a library research paper or project that integrates knowledge gained in the technology core of the applied science discipline. *Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Art (ART)

ART 1050 The Visual Arts in 2-D 4 s.h.

Instruction in drawing through extensive exercises in line, texture, value, shape, space, and composition. Introduction to various drawing media.

ART 1210 Introduction to Commercial Art (JRN) 4 s.h.

Introduction to the advertising field, its language, manner of working, and preparation of ads for commercial purposes. Prerequisite: ART 1050 or permission of instructor.

ART 2070 Creative Design and Color 4 s.h.

Elements and principles of two- and three-dimensional design and color studied as the basic factors of creative expression. Experimentation in line, texture, value, shape, space, and color within the context of principles of composition, balance, and movement. Students are introduced to theories and techniques which lead to an understanding of both two- and three-dimensional media, e.g., painting and sculpture.

ART 2100 Commercial Illustration 3 s.h.

The combination of drawing skills and color application of designer's gouache for the purpose of developing commercial illustration as reflected in multi-media fields. Prerequisites: ART 1050, ART 1210, or permission of instructor.

ART 2680 Commercial Art Experiences 4 s.h.

Advertising problems employing prefabricated graphic arts materials, photography, and other equipment. Introduction to writing creative captions and related visuals for magazine and newspaper ads, cover designs, posters, flyers, and billboards. Prerequisites: ART 1050, 1210 and 2070, or permission of instructor.

ART 2700 Introduction to Computer Art 3 s.h.

Design principles and procedures on the computer as applied to creative graphic design projects.

ART 2750 Painting and Composition 3 s.h.

The development of skills requisite to oil painting or acrylics, based on a systematic treatment of composition and the technique of painting. Emphasis on the most effective use of materials and concepts. Prerequisites: ART 1050 and 2070.

ART 2800 Creative Watercolor 3 s.h.

Introduction to watercolor techniques and application of both traditional and avant-garde methods of painting to imaginative composition and/or stylization of subject matter. Development of advanced understanding of color theory. Prerequisite: ART 2070 or permission of instructor.

ART 3050 Lettering and Calligraphy 3 s.h.

Development of the skills and the art of lettering, spacing, and layout as applied to writing of certificates, announcements, and resolutions. Preparation of work for professional use. Recommended for graphic design students.

ART 3130 Photography I (JRN*) 3 s.h.

ART 3140 Photography II (JRN*) 3 s.h.

ART 3300 Advanced Drawing 3 s.h.

Life drawing among a variety of subjects, developing contemporary approaches to realistic and abstract compositions.

ART 3310 Advanced Painting 3 s.h.

Advanced level instruction in one of the following media: oil, watercolor, acrylics, or mixed media.

ART 3390 Oriental Brushwork 2 s.h.

A studio course based on the theory and practice of Chinese and Japanese ink brush painting. Lecture and grinding of ink and painting each class.

ART 3460 Relief and Silkscreen Printing 3 s.h.

Principles and techniques of making multiple images from relief surfaces such as linoleum, wood block, and from stencil printing, particularly silkscreen. Prerequisites: ART 1050, 2070, or permission of instructor.

ART 3610 Advertising Design 4 s.h.

Layout and skillful preparation of advertising problems at an advanced level. Introduction of the television commercial, campaign, and specific production knowledge. Areas of interest: art direction, illustration, direct sales, and container design. Prerequisite: ART 2680.

ART 3700 Adobe Illustrator I-III 1 s.h. each

Introduces the student to Illustrator basics, working with tools, the Pen Tool, and transformation tools. At the intermediate level, students learn layers and masks, working with text, custom colors and fills, and graphing. At the advanced level, students learn advanced drawing techniques, how to modify paths, advanced-level text formatting, and special drawing techniques.

ART 3710 PhotoShop I-III 1 s.h. each

An introduction to PhotoShop's retouching and image-processing capabilities. Students learn how to convert images, make color corrections, create a Quick Mask, work with paths, manipulate layers, apply special effects, printing in PhotoShop, and tips and tricks.

ART 4080 Three Dimensional Forms 4-8 s.h.

An upper-level studio course in which students are expected to explore techniques of sculpture which expose them to subtractive and additive methods and materials, such as: clay, stone, plaster, and wax. Consideration of the materials used in fabrication, such as wood, metal, and plastic. Students are expected to be self-directed in the subjects they choose to explore, develop, and pursue. Students are further required to research traditional and contemporary sculpture as a way to develop their own curiosity in the medium. Dialogue between instructor and student to develop effective critical thought.

ART 4250 Advanced Problems in Commercial Art 4 s.h.

Advertising campaign problems, camera-ready layout and illustration, color separation and preparation of artwork for printing, advanced and independent problems for business and/or institutions, preparation of a job-seeking portfolio.

ART 4280 Advanced Sculpture 3 s.h.

A hands-on experience in which the student is actively engaged in the creative process. At this level, students are allowed a good deal of freedom in their choice of content and form-making. Modeling, casting, carving, additive methods, and transformative methods are all possible approaches. Students may also choose to combine various techniques. Subject matter (content) and materials are determined by the student in consultation with the instructor.

ART 4400, 4410 Advanced Studio 2-4 s.h.

Independent advanced work in media and disciplines not currently offered, such as advanced painting, drawing, design, sculpture, advertising, etc. Permission of department head and instructor required.

ART 4470 Intaglio (Etching) 3 s.h.

A studio course designed to introduce the various intaglio processes: etching, aquatint, drypoint, and the exploration of color and black-and-white printing. Principles of historical and contemporary techniques are approached and discussed.

ART 4480 Lithography 3 s.h.

A studio course designed to introduce both stone and metal-plate lithography. Printing in both color and black-and-white, advanced exploration and experimentation are encouraged and desired. Principles of historical and contemporary techniques are approached and discussed.

ART 4950 Senior Seminar (HUM) 1 s.h.

Required of all majors in graphic design and visual arts education. Majors in Fine Arts take HUM 4960 as their senior seminar.

Art Education (AED)

AED 3100 Visual Culture 3 s.h.

Critical thinking about the increasingly visual culture that predominates the lives of twenty-first century American citizens. Analytic tools of semiotics used to look beyond the first layer of meaning of a given cultural product to the underlying content and the motivation which prompts all cultural texts. Discernment of various ideological structures that help both inform a cultural product and aid in the interpretation of texts by the surrounding culture.

AED 3160 Art for the Elementary School Teacher (EDU) 2 s.h.

Study of elements of art with orientation to a variety of media and techniques, emphasizing preparation of innovative, motivating art lessons appropriate to elementary grades. (*Specifically designed for non-art majors.*)

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.

AED 3810 Principles of Secondary Visual Arts Education 3 s.h.

Visual arts techniques, teaching strategies, lesson design and portfolio presentation, classroom observations, and the theories, history, and philosophy of visual arts education for the secondary student.

Art History (AHIS)

AHIS 2010 Art Appreciation 3 s.h.

Survey of major works in visual arts from all ages with emphasis on the appreciation of the contributions of various cultures to the world of art and understanding of the language of design within the context of various media. (*Interpreter available; not applicable to an art major.*)

AHIS 2020 Great Monuments in World Art 3 s.h.

Slide lectures and discussions of important artifacts and masters in the visual arts, stressing the understanding and appreciation of man's creative ability as seen through works of art. (*Not for art majors.*)

AHIS 2150 History of Eastern European Art (POL*) 3 s.h.**AHIS 3250 Art History: Ancient to Renaissance 4 s.h.**

Study of painting, sculpture, architecture, and decorative arts from prehistoric, ancient Greek, Roman, and medieval periods through the early Renaissance.

AHIS 3260 Art History: Renaissance to 20th Century 4 s.h.

Study of significant examples of painting, architecture, and sculpture from the high Renaissance in Italy, northern and southern Baroque masters, Rococo to 20th century.

AHIS 3340 History and Appreciation of Polish Art (POL*) 3 s.h.**AHIS 3350 Asian Art: India, China, Japan 3 s.h.**

A study of the architecture, sculpture, painting, decorative arts, bronzes, ceramics, and garden designs in India, China, and Japan. Correlation of these artifacts with the social, religious, cultural, and historic climate of these cultures. Emphasis placed on the understanding and appreciation of the creativity evident in both historic works and modern works of art of the 20-21st centuries, continuing the traditions while introducing new stylistic and content imagery.

AHIS 4150 Modern Art: Late 19th and 20th Century Art 4 s.h.

A study of the painting, sculpture, architecture, decorative arts, and new media of the 19th and 20th century artist, beginning with art movements and the development of the "avant-garde" concepts, continuing through to the most recent post-modern expressions in the visual arts. The significance of individuals both within and outside of artistic movements is contrasted. Emphasis placed on the understanding and appreciation of the creativity evident in the various modern expressions of the visual arts in the West, along with the new expressions evident in non-western art of India, China, Japan, and Korea.

AHIS 4750 Studies in Art History 3 s.h.

Topics in art history vary according to period, artists, school, culture, or patronage. Prerequisite: ART 2020 or permission of instructor.

Biology (BIO)

BIO 1010 Introductory Biology 4 s.h.

A course for non-science majors, presenting biological concepts influencing individual decisions affecting community structure and the state of the world. Lecture 3 hours, laboratory 3 hours.

BIO 1030, 1040 General Biology I, II 4, 4 s.h.

Fundamental biological principles and problems as they apply to molecular, cellular, organismic, and ecological levels of the plant and animal worlds. Lecture 3 hours, laboratory 3 hours. Corequisite: enrollment in or completion of CHM 1110 or equivalent. One year of high school biology and chemistry recommended.

BIO 2240 Basic Human Physiology 4 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.

BIO 2260 Microbiology 4 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 3 hours, laboratory 3 hours. Prerequisites: CHM 1610 or 2210 and BIO 1030 or 2240 or 2430.

BIO 2430, 2440 Anatomy and Physiology I, II 3, 3 s.h.

Study of the structure and function of the ten major body systems. Supplementary topics include: the cell, fluids and electrolytes, and acid-base balance. Lecture 2 hours, laboratory 2 hours.

BIO 3010 Genetics 4 s.h.

Principles of genetic theory with its application to plants, animals, microorganisms, and humans. and techniques (including statistics). Lecture 3 hours, laboratory 3 hours. Prerequisites: 12 s.h. of biology including BIO 2260; MTH 2350; CHM 3610 recommended.

BIO 3150 Human Genetics and Society 3 s.h.

The new genetics affects us all and the ethical, legal, and social implications of this technology will impact society for years to come. 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 Invertebrate Zoology (Parasitology) 4 s.h.

Study focuses upon the morphology, classification, life cycles, epidemiology, and control of major human parasites. Laboratory emphasizing the identification of parasitic adult and larval forms as observed in clinical specimens. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 2260.

BIO 3210 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. An overview of research methods used in field studies complements theoretical concepts in lecture. Lecture 2 hours, laboratory/ field 3 hours. Prerequisite: 6 s.h. in biology.

BIO 3280 Immunology 4 s.h.

Basic principles of immunology and serology with emphasis on the nature of antigens and antibodies, the theories of the immune response, and the application of principles in hypersensitivity, tumor, and transplantation immunology. Theory and practice of serological techniques including immunoprecipitation, agglutination, and complement-mediated cell lysis. Lecture 3 hours, laboratory 3 hours. Prerequisites: BIO 2260 and CHM 3610; BIO 3010 recommended.

BIO 3300 Human Sexuality in a World of Diversity 4 s.h.

An interdisciplinary course designed to introduce students to the biological sciences through a consideration of issues related to human sexuality. Issues central to the course are (1) human diversity and values, (2) responsible sexual decision making, and (3) sexual health. *(Not applicable to BIO major or minor.)*

BIO 3500 Medical Mycology 4 s.h.

Studies in the isolation and identification of fungi with emphasis on the fungi of medical importance. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 226.

BIO 3610 Epidemiology 3 s.h.

Study of factors involved in the occurrence and prevention of diseases within human populations. Prerequisite: BIO 2260.

BIO 3710 Pathophysiology 3 s.h.

Study of disease processes affecting normal functioning of the human body in cardiovascular, pulmonary, endocrine, neurological, and renal systems. Prerequisites: BIO 2430, 2440.

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; BIO 3280 recommended.

BIO 4410 Molecular Biology 3 s.h.

Introductory course in molecular biology, including a description of common techniques used by molecular biologists and a detailed comparison of prokaryotic and eukaryotic cells with respect to the details of transcription, post-transcriptional events, translation, gene regulation, and DNA replication.

BIO 4500 Physiological Psychology (PSY*) 3 s.h.**BIO 4700 Biological Investigation 1-4 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.*

Business Administration (BUS)

BUS 1010 Contemporary Society and The Organization 3 s.h.

The dynamics of contemporary administrative, social and political influences on the organization; laws and regulatory agencies and their impact on the organization; career opportunities in the organization. *General elective or General Education only; does not apply toward Business majors.*

BUS 1100 Introduction to Sport Management (SM*) 3 s.h.**BUS 3260 Business and Professional Writing (ENG*) 3 s.h.****BUS 3530 Foundations of e-Commerce 3 s.h.**

The core concepts of e-commerce management and strategy. Emphasis on the decision-making process used to begin, develop, and run an e-business and an organizational model which shows the relationship between management and human resource administration, marketing, accounting, finance, statistical analysis, consumer demand, and technology. Prerequisites: CIS 2380, MKT 2440, MGT 2360.

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, and the social responsibility of business. Prerequisites: junior standing, MKT 2440 and MGT 2360.

BUS 4100 Legal and Ethical Aspects of Sport (SM*) 3 s.h.**BUS 4710-4750 Seminars 1-3 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.

BUS 4710 Brunch with an Expert Seminar 1 s.h.**BUS 4720 Literature Review Seminar 3 s.h.****BUS 4730 Research Seminar 3 s.h.****BUS 4740 General Topic Seminar 1-3 s.h.****BUS 4750 Leadership Seminar 1 s.h.****BUS 4910 Cooperative Education 1 s.h.****BUS 4920 Cooperative Education 1 s.h.**

Business Law (BL)

BL 3330 Business Law I 3 s.h.

Study of the law and the legal process as it relates 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 products liabilities and performing legal research. Prerequisite: MGT 2360 or consent of instructor.

BL 3500 Employment Law 3 s.h.

Recognizing those organizational policies and practices that may put the firm's assets at risk. Emphasis on the statutory, case, and regulatory approaches which business must understand in order to be successful.

BL 4330 Business Law II 3 s.h.

A continuation of Business Law 3330, with emphasis on the legal aspects of corporations and partnerships, property rights, debtor-creditor relations, and securities regulation. The general principles of governmental regulation of business and the legal aspects of international business transactions explored. Prerequisite: BL 3330.

Catholic Integrated Core Curriculum (ICC)

ICC courses are offered at the Orchard Lake Center location.

ICC 1000 Core Seminar I: Ancient World 4 s.h.

Reading and discussion of great and representative works of biography, literature, art, theology, and philosophy produced in the ancient world (above all, ancient Greece and Rome), in order to understand, learn from, and reflect upon the attempts of ancient people to deal with fundamental human problems and questions. The basic outlines of ancient history are included.

ICC 1030 Life and Roots of John Paul II (POL*) 3 s.h.**ICC 1060 The Philosophical Quest (PHL*) 4 s.h.****ICC 1500 Introduction to Catholic Theology (THL*) 3 s.h.****ICC 2000 Core Seminar II: Medieval World 4 s.h.**

Reading and discussion of great and representative works of biography, literature, art, theology, and philosophy produced in the medieval world (above all, medieval western Christendom between 1000 and 1500 AD) in order to understand, learn from, and reflect upon the attempts of medieval people to deal with fundamental human problems and questions. The basic outlines of medieval history are included.

ICC 2060 Philosophy of the Human Person (PHL*) 3 s.h.**ICC 2150 History of the Catholic Church (THL*) 3 s.h.****ICC 2260 Introduction to Political Theory and Catholic Social Thought (PHL*/THL) 4 s.h.****ICC 2510 Revelation and Sacred Scripture (THL*) 3 s.h.****ICC 3000 Core Seminar III: Early Modern World 4 s.h.**

Reading and discussion of great and representative works of biography, literature, art, theology, and philosophy produced in the early modern world (roughly between 1500 and 1750 AD), during which the ways of older Christendom blended with emerging modern trends, in order to understand, learn from, and reflect upon the attempts of early modern people to deal with fundamental human problems and questions. The basic outlines of early modern history are included.

ICC 3060 Philosophy of God (PHL*) 3 s.h.**ICC 4000 Core Seminar IV: Late Modern World 4 s.h.**

Reading and discussion of great and representative works of biography, literature, art, theology, and philosophy produced in the later modern world (between 1700 AD and the present), during which the ways of older Christendom blended with emerging modern trends, in order to understand, learn from, and reflect upon the attempts of late modern people to deal with fundamental human problems and questions. The basic outlines of late modern history are included.

ICC 4060 Ethics (PHL*) 3 s.h.**ICC 4500 Capstone 3 s.h.**

To allow students to achieve a full integration of faith and life, and to view their major or their professional interest from a

philosophical and theological perspective, principally the thought of Pope John Paul II. Topics include John Paul II on human rights; on business ethics and the morality of markets; the medical profession in light of John Paul II on The Gospel of Life; psychology and models of the human person in light of John Paul II's Redemptor Hominis; John Paul II on science and technology; John Paul II on art and literature; John Paul II on faith and reason; and the teaching profession in light of John Paul II on education.

Chemistry (CHM)

CHM 1010 Introductory Principles of Chemistry 4 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; and special topics as nuclear and environmental chemistry. Lecture 3 hours, recitation 1 hour, laboratory 2 hours. Prerequisite: one year of high school algebra or MTH 1040 with grade of C or better. *(May be used to satisfy the physical science general education requirement with laboratory and the chemistry prerequisite for CHM 1110. Does not apply toward Chemistry major or minor.)*

CHM 1110 General Chemistry I 4 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 with grade of C or better; one year of high school algebra or MTH 1040 with grade of C or better. Two years of high school algebra highly recommended, or MTH 1040 and 1050 with grades of C or better.

CHM 1120 General Chemistry II 4 s.h.

Principles of thermodynamics, kinetics, equilibrium systems, proton transfer, electrochemistry, and nuclear chemistry. Laboratory projects related to each major subject area. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHM 1110 or equivalent; prerequisite or corequisite MTH 1060 or 1210 or equivalent.

CHM 1610 Introduction to Life Chemistry 4 s.h.

Integrated organic and biochemical principles related to normal functioning of the human body. Lecture 3 hours, laboratory 3 hours. Prerequisite: high school chemistry with graduation within the past two years, or CHM 1010 or CHM 1110 within the past two years, with a grade of C or better, or chemistry placement test. *(Does not apply toward chemistry major or minor.)*

CHM 2210 Organic Chemistry I 4 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 or equivalent.

CHM 2220 Organic Chemistry II 4 s.h.

More extensive study of reaction mechanisms; aromatics; spectroscopy; organometallics. Laboratory exercises directed to the systematic identification of organic functional groups, spectroscopy, and gas chromatography. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110 and 2210.

CHM 3310 Quantitative Analysis 4 s.h.

Theory and techniques 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, 1120, 2210, MTH 1210 or equivalent.

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 bond theories, symmetry and group theory, nuclear chemistry. Prerequisites: CHM 1110, 1120, MTH 1210 or equivalent.

CHM 3610 Biochemistry I 4 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, 2210.

CHM 3620 Biochemistry II 4 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, 2210, and 3610.

CHM 3630 Clinical Chemistry I (MTE*) 3 s.h.

CHM 3650 Clinical Chemistry II (MTE*) 3 s.h.

CHM 4410 Physical Chemistry I 4 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 1110, 1120, 2210; MTH 2510, 2520; PHY 2530, 2540.

CHM 4420 Physical Chemistry II 4 s.h.

Atomic and molecular structure, quantum theory and mechanics, analytical spectroscopy, selection rules, photochemistry. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210, 4410; MTH 2510, 2520; PHY 2530, 2540.

CHM 4510 Instrumental Analysis 4 s.h.

Theory and techniques of modern instrumental analysis including UV, visible, and IR spectrophotometry; NMR, EPR, and mass spectroscopies; electrochemistry; chromatography including HPLC; other current topics. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1110, 1120, 2210; MTH 1210 or 2510 and 2520; PHY 2530, 2540.

CHM 4900 Problems in Chemistry 1-4 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 students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

Child Development (CD)

CD 2160 Child Development and Guidance (FCS) 4 s.h.

Growth and behavior of a child from the prenatal stage through early childhood as well as guidance techniques for each stage of development.

CD 2610 Infant and Toddler Development, Care Giving, and Curriculum Planning 1 s.h.

The various aspects of the development of infants and toddlers with special focus on attachment, perception, motor skills, language, cognition and brain development, emotions, and social skills. The essentials of infant and toddler caregiving. Emphasis is placed on the significance of parent and caregiver relationships, the physical and social environment, as well as curriculum planning for play and caregiving times for infants and toddlers.

CD 2650 The Role of Content in Early Childhood Curriculum: Art, Music, Play, Movement, Science, and Mathematics 4 s.h.

The elements of art, music, creative play, movement, science, and mathematics in curriculum planning. Creative activities in these curriculum areas based on the developmental needs of children birth to age 8. Emphasis placed on the integration of these content areas into the daily or weekly plans for children's learning in the affective, cognitive, and psychomotor domains. Prerequisite: CD 2160

CD 3100 Language Development and Language Arts 3 s.h.

The development of the language of a child from birth through elementary school. Application of linguistic theory to literacy and language arts education, including an overview of structural and transformational linguistics and its impact on oral and written communication, and an exploration of the theory and techniques of listening, speaking, and writing effectively in the English language. Prerequisite: ENG 1010.

CD 3160 Principles of Administration and Organization of Early Childhood Programs 3 s.h.

Basic processes of administration including planning, organizing, supervising, assembling resources, accounting and specific administrative skills required by child care center administrator. Prerequisite: experience in child care and planning.

CD 3580 Developing Curriculum for Early Childhood 3 s.h.

Study of how to design curriculum and the environment to promote the growth in the social/emotional, cognitive, and psychomotor domains of the preschool child. Prerequisite: CD 2160, CD 2650, CD 3100. Corequisite: CD 3930.

CD 3930 Pre-School Practicum 1-2 s.h.

Taken concurrently with CD 3580: the field experience for observing, planning, and practicing strategies that are learned in CD 3580. Prerequisites: CD 2160, CD 2650, CD 3100, CD 3580.

CD 4100 Philosophies in Early Childhood Education 3 s.h.

Examination of contemporary early childhood care and educational practices. Theoretical foundations for early childhood curricula.

CD 4130 Parents and Teachers - Partners in Education (EDU) 3 s.h.

Information and strategies that can be utilized by teachers to aid parents to work in partnership with schools to promote the cognitive, affective, and psychomotor development of their children.

CD 4160 Assessing Children's Behaviors 2 s.h.

A study of the purposes for assessing children's behavior and the development of skills required for evaluating behavior. Emphasis placed on preparing reports for parents and institutions. Prerequisites: CD 2160, CD 2650, CD 3100, CD 3580.

CD 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.

- CD 4700 Senior Practicum 3 s.h.**
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- CD 4810 Senior Practicum Seminar 1 s.h.**
Practicum issues and the application of child management strategies in the early childhood setting.
- CD 4920 Senior Practicum Seminar 1 s.h.**
This course provides the student the opportunity to work in a supervised setting related to the student's area of specialization. The seminar provides the forum to reflect upon and discuss his/her practicum experiences. The student is introduced to action research as a tool for self-reflection and continued professional development.
- CD 4930 Senior Practicum 2-4 s.h.**
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- CD 4950 Seminar (FCS) 2 s.h.**
In-depth consideration of issues in a related field; integration and verification of exit-level competencies.

Computer Information Systems (CIS)

- CIS 2250 Computer Fundamentals 2 s.h.**
Introduction to the fundamentals of computers for the non-technical person. Study of the operating functions of both the hardware and software components of an information system. Emphasis on hands-on experiences with word processing, spreadsheet, and database management systems. Study of the evolution, application, and ethical aspects of computer systems. *Does not apply towards credit for business or computer information systems majors.*
- 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 processing in the business environment and in the global society; hands-on experience with word processing, electronic spreadsheets, graphics, database management, and electronic mail.
- CIS 2430 Introduction to Business Application Programming 3 s.h.**
Emphasis on a structured, multi-phase approach to program design and development. Uses problem-solving techniques which are independent of programming languages. Introductory instruction in QBASIC, with proposed solutions coded in QBASIC. Prerequisite: CIS 2380.
- CIS 2480 Programming Applications: High Level Language 3 s.h.**
Problem-solving with the computer using the programming language COBOL in numerical and non-numerical applications in a business environment. Emphasis on understanding problem definition, top-down structured design, related program design tools, and translation of specifications into COBOL syntax. Hands-on testing and debugging of assignments, which include sequential file processing, file matching, and table handling. Prerequisite: CIS 2430.
- CIS 2800 Introduction to Visual BASIC Programming 3 s.h.**
Problem-solving with the computer using the computer language Microsoft Visual Basic for Windows, in numerical and non-numerical applications in a business environment. Emphasis on creating business-oriented applications in the Microsoft Windows operat-

ingsystem environment, using an Objective Oriented Programming (OOP) approach. Prerequisite: CIS 2430.

- CIS 2850 Web Design for Business Applications 3 s.h.**
Study of the evolution, design, and 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. Course will investigate and determine what constitutes an acceptable web-site.
- CIS 2910 Cooperative Education I 1 s.h.**
Experience in a computer environment; includes programming, use of software packages, trouble-shooting, and hands-on experience with a computer system. Prerequisite: CIS 2800.
- CIS 2950 Networks and Data Communications 3 s.h.**
Analysis of data communications systems for business. Considers distributed processing, networks, protocols, standards, topologies, and management concerns. Prerequisite: CIS 2380 or equivalent.
- CIS 3300 Information Systems for Decision Making 3 s.h.**
Fundamental concepts of information systems, with emphasis on the process by which systems are developed from the end user's perspective. Problem solving using computer based information systems. Analyze existing information systems by way of case study methodology. Prerequisite: CIS 2250 or 2380. *No credit for Computer Information Systems majors.*
- CIS 3420 Computer Graphics in Business 2 s.h.**
Study of the principles of presentation graphics, including design, creation, and usage of graphics hardware and software. Includes the design of a business-oriented graphic presentation project. Prerequisites: CIS 2250 or 2380 or CSC 2080.
- CIS 3450 Systems Analysis and Design 3 s.h.**
An overview of the systems development life cycle, with emphasis on techniques and tools of analysis, design, documentation, and logical system specification. Prerequisite: CIS 2800.
- CIS 3480 Data Structures 3 s.h.**
Data file organization and manipulation; includes sequential and random access, indexed files, linked lists, trees, searches, and sorts. Prerequisites: CIS 2430 or equivalent, MTH 1050, and working knowledge of a procedural language other than COBOL.
- CIS 3640 Introduction to Software Engineering 3 s.h.**
Software life cycles from initial concept through design, development, testing, and maintenance. Development life cycle models. Issues in configuration management, integration and testing, software quality, security, operations, and human factors. Prerequisite: CIS 3450.
- CIS 3800 Advanced Visual Basic Programming 3 s.h.**
Problem-solving with the computer using the computer language Microsoft Visual Basic for Windows. Advanced programming techniques and applications in a business environment; emphasis on creating complex business oriented applications in the Microsoft Windows operating system environment, using an Object Oriented Programming (OOP) approach. Prerequisite: CIS 2800 or equivalent.
- CIS 3850 Data Base Management 3 s.h.**
Study of the concepts governing the design and management of database systems. Comparison of the hierarchical, inverted list, network, and relational data models. Indepth study of the relational data model theory. Development of a business-oriented computer system using a relational data base management system. Analysis of data base issues, such as security, privacy, and integrity, for which a Chief Information Officer is held responsible. Prerequisites: BUS 3950, CIS 3450, and CIS 3480.

CIS 3880 Query Languages: SQL, Oracle 3 s.h.

An advanced course in database query and data reporting functions using Structured Query Language (SQL) and Oracle Languages. Developing a relational database application using Oracle's database development utilities. Prerequisite: CIS 3850

CIS 3910 Cooperative Education II 1 s.h.

Experience in a computer environment. Applying the skills and techniques learned in the prerequisite systems courses to strategic systems planning. Prerequisite: CIS 3880.

CIS 4100 e-Commerce Information Technology Fundamentals 3 s.h.

Introduction and investigation of establishing, developing, and managing Web strategy in the e-Commerce arena. The critical elements essential to successful Web site implementation and management, applying the systems approach to examine some of the radically new business models emerging from Web-based businesses. Prerequisite: CIS 3450.

CIS 4320 Audit and Control of Accounting and Information Systems 2 s.h.

Principles of auditing of information systems with emphasis on controls, audit types, security, and audit techniques and their effects on accounting and computer system development. Prerequisites: CIS 3450 or 3300 and ACC 2020.

CIS 4570 Human Resources Information Systems 3 s.h.

The application of computer-based information systems to human resources management, presenting both commercially-available "canned" programs and "home-grown" systems development. Evaluation of system properties, elements, and criteria. Control of labor costs using the Position Allocation and Requisition System; the elements of job design, including criteria identification, contemporary workforce issues which impact design, and interfaces with various statutory and regulatory mandates such as the Internal Revenue Service; and determination of exempt versus non-exempt status for purposes of overtime calculations also covered. Financial implications of computerized HR systems identified and discussed. Prerequisite: CIS 2380.

CIS 4710-4750 Seminars 1-3 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.

- CIS 4710 Brunch with an Expert Seminar 1 s.h.**
- CIS 4720 Literature Review Seminar 3 s.h.**
- CIS 4730 Research Seminar 3 s.h.**
- CIS 4740 General Topic Seminar 1-3 s.h.**
- CIS 4750 Leadership Seminar 1 s.h.**

CIS 4890 Information Systems Project Management 2 s.h.

An overview of the theory and practice of information technology project management. Students study the processes and issues involved in formulating an information technology project, including initiating, planning, executing, controlling, and closing a project. Emphasis on the unique challenges of managing information technology projects, with business case study to allow students to investigate the practical applicability of the methodologies. Hands-on experience with industry standard project management software such as Microsoft Project. Prerequisite: CIS 3450.

CIS 4900 Information Systems Policy 3 s.h.

A capstone course covering advanced strategies for matching an information system department to the structure and behavior of the organization. Study of the overall information needs of an organization and the role information systems play in meeting them. Investigation of the administrative and management issues relative to administration of the information systems function. Prerequisite: *Must be taken within final six hours of major.*

CIS 4910 Cooperative Education III 1 s.h.

Experience in a computer environment, applying skills and techniques learned in programming and systems courses to a systems development project. Prerequisite: CIS 3910.

Computer Science (CSC)

CSC 2010 Web Fundamentals 3 s.h.

Designed for students who already have an adequate knowledge of computers and such basic applications as word processing, spreadsheets, databases, and presentation software. Covers Internet applications, web searching, and a comprehensive introduction to HTML and web page design, including the use of commercial web authoring software. *May be taken to satisfy the Goal 4.B. Computer Literacy requirement.*

CSC 2080 Computer Science I 3 s.h.

Topics include fundamentals of computation and algorithmic problem solving, data types, procedures, control structures, arrays, and applications. The course utilizes the C/C++ high-level programming language. Prerequisite or corequisite: CSC 2010 or consent of instructor. *The first computer science course taken by students in mathematics and science, as well as by those wishing to concentrate in computer science.*

CSC 2350 Web Programming 3 s.h.

Students are introduced client-side and server-side programming languages such as JavaScript and Perl. Students write programs to process and validate HTML forms. Prerequisites: CSC 2080.

CSC 2480 Computer Science II 3 s.h.

A continuation of Computer Science I. Refining programming skills in the C++ high-level programming language. 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 2910 Cooperative Education in Operations 1 s.h.

Cooperative education experience with emphasis on computer operations. Non-lecture based course designed to enable students to gain valuable on-the-job work experience. Prior to registration, student must obtain signature of advisor. Prerequisites: consent of advisor.

CSC 3010 Numerical Analysis for Computer Science 3 s.h.

Study of numerical methods in the solution of mathematical problems, integration, differentiation, curve construction and fitting, interpolation, and extrapolation. Introduction to numerical computer algorithms. Prerequisites: CSC 2080.

CSC 3030 Operating Systems 3 s.h.

Focuses on the major components of a computer operating system and the general operation of these components. Basic concepts include: memory management, processor management, processes, communication and synchronization, shared resources, resource allocation, device management, file management, and security issues. Prerequisites: CSC 2480

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. Prerequisites: CSC 2480 and MTH 2510

CSC 3280 Analysis of Algorithms 3 s.h.

The study of data structures and their relationship to algorithms. Concepts studied 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 using the C++ or other object-oriented programming language to study algorithms and their application utilizing various data structures such as lists, queues, stacks, and trees. Prerequisites: CSC 2480 and MTH 2510.

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. Several different programming languages are compared including C, Fortran, Pascal, Ada, and Lisp. Prerequisites: CSC 2480.

CSC 3350 Java Programming 3 s.h.

Focuses on developing Java applications and applets for the Internet. Basic programming concepts studied include: control structures, arrays, methods, strings, and objects. Advanced topics such as graphics, user interface components, exception handling, multi-threading, multimedia, and streaming applications are also covered. Prerequisites: CSC 2480

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. Prerequisites: CSC 3290.

CSC 3910 Cooperative Education in Software 1 s.h.

Cooperative education experience with emphasis on computer programming or software engineering. Non-lecture based course designed to enable students to gain valuable on-the-job work experience. Prior to registration, student must obtain signature of advisor. Prerequisites: consent of advisor.

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. Prerequisites: CSC 329

CSC 4850 Seminar: Computers and Society 3 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

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 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 Investigations 3 s.h.

An overview of the private investigation industry, including but not limited to employment opportunities, history/evolution, methods and management of private investigation, 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 2400 Interviewing and Investigative Report Writing 3 s.h.

The art of interview and interrogation and the basic skills that are necessary for the documentation of information that is obtained from a wide variety of sources.

CJ 2650 Criminal Law 3 s.h.

History, purposes, and philosophy of criminal law, local, state, and federal law; development, application, and rights of the offender.

CJ 2910, 3910, 4910 Practicum/Cooperative Education in Criminal Justice 3, 3, 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 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 3050 Criminal Procedures (FOR/LAW) 3 s.h.**
Procedural law for law enforcement officers. Law of arrest, evidence, and search and seizure.
- CJ 3110 Criminal Investigation (FOR) 3 s.h.**
Basic principles and procedures of criminal investigation; conduct at crime scene; search, collection and preservation of evidence; interviewing; and methods used in crime laboratories.
- 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 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 or permission of instructor.
- 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 1210.
- CJ 3820 Forensic Psychology (PSY*/FOR) 3 s.h.**
- CJ 4050 Constitutional Law (PSC/LAW) 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 on individual health and societal progress, identification and classification of abused drugs, problems faced by law enforcement efforts to control.
- CJ 4230 Homicide Investigation (FOR) 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, arrests, arraignment, and preliminary examinations.

- CJ 4750 Special Topics in Criminal Justice 1-3 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 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 departmental approval.

Earth/Space Science (ESS)

- ESS 2160 Earth Science 4 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.*
- ESS 3030 Oceans: Our Continuing Frontier 4 s.h.**
Introduction to the whole range of human involvement with the sea, emphasizing awareness of and possible solutions to technological problems inherent in exploring the sea. *Interdisciplinary course designed for General Science, Integrated Science, and non-science majors.*
- ESS 3260 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.
- ESS 3290 Principles of Astronomy 4 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.*

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 4 s.h.**
Theories of production and cost, demand, supply, competition, consumer behavior, and distribution of income. Prerequisite: MTH 1050.
- ECN 2730 Principles of Macroeconomics 4 s.h.**
Measurement and determination of economic activities and development, aggregate income, and employment. Emphasis on consumption, monetary policy, fiscal policy, taxes, government, investment, and expenditures. Prerequisites: ECN 2720 and MTH 1050.

ECN 3800 Money and Banking 3 s.h.

Study of the nature and function of money with reference to the expansion and contraction of the money supply. The various functions of the Federal Reserve System, including the control of the rate of interest and money supply. Prerequisites: ECN 2720, ECN 2730, and ACC 2010.

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, MGT 2360, and QS 3550.

ECN 4300 Budgeting and Financing of Sport (SM*) 3 s.h.**ECN 4510 Economic and Business History of the United States (HIS*) 4 s.h.**

Education (EDU)

EDU 1010 Classroom Practicum for Prospective Teachers 3 s.h.

Provides students considering teaching as a career with structured experiences in K-12 classrooms. Students are introduced to state and national standards for the teaching profession and begin development of a professional proficiency portfolio.

EDU 2000 Introduction to Professional Education Experiences 3 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. Coursework includes observation and participation in classroom settings. Lecture 2 hours, laboratory 1 hour. Prerequisite: PSY 1010 and ENG 1020.

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 2330 Learning and Teaching Number Concepts (MTH*) 3 s.h.**EDU 2340 Learning and Teaching Geometric and Statistical Concepts (MTH*) 3 s.h.****EDU 3020 Program Planning for Older Adults (GER*) 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 4 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; evaluation of the outcomes of learning. Application of learning theory and multicultural concepts in a field-based context. Lecture 3 hours, laboratory 1 hour. Prerequisites: PSY 1010 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 for the Elementary School Teacher (AED*) 2 s.h.**EDU 3210 Theory and Principles of Reading Instruction (elementary only) 3 s.h.**

Study of theory and process in developmentally appropriate reading/writing instruction including language and literacy acquisition, comprehension, word recognition, methods of instruction and assessment, program development, and planning for individual instructional needs. Prerequisites: PSY 1010, EDU 2000. Prerequisite or corequisite: EDU 3120.

EDU 3300 The Exceptional Learner in the Classroom 3 s.h.

To assist future teachers in meeting the diverse needs of the exceptional child in the general education classroom. Prospective teachers develop a working knowledge of the historical perspective of present special education programs, the effects of litigation, and the continuum of special education services. The process of identifying, evaluating, and individualizing instruction for students with special needs is emphasized. Nine clock-hour practicum required.

EDU 3350 Language Arts and Linguistics Foundations 3 s.h.

Application of linguistic theory to language arts education, including an overview of structural and transformational linguistics, and its impact on oral and written communication; techniques of handwriting, and an exploration of the theory and techniques of listening, speaking, and writing effectively in the English language. Prerequisites: ENG 1010 and EDU 2000. Prerequisite or corequisite EDU 3210.

EDU 3460 Instructional Media 2 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*) 4 s.h.**EDU 3740 Science Foundations II: Earth Science, Physics, and Astronomy (NSC*) 4 s.h.****EDU 4120 Classroom Assessment 2 s.h.**

Provides key theoretical underpinnings to examine informal and formal classroom assessment procedures. Students practice techniques, gather data, apply and evaluate assessment procedures, and produce assessment records based on sound principles. Prerequisite: EDU 3120 and admission to the Teacher Education Program.

EDU 4130 Parents and Teachers - Partners in Education (CD*) 3 s.h.**EDU 4140 Conflict Management in the Classroom, Home, and Job (SOC*) 1 s.h.****EDU 4210 In-Service Projects 1-4 s.h.**

Focus on new developments in education with practical implementation: open classroom concept, individual instruction, instructional technology, accountability, mainstreaming, multicultural education. Prerequisite: departmental approval. (*May not substitute for a required course.*)

EDU 4220 Reading in the Content Areas (elementary only) 3 s.h.

Study of the principles, techniques, and processes of literacy instruction needed for students to be independent, strategic learners in the content areas taught in the elementary, and middle schools.

Application of learned principles and practices to teaching situations. Lecture 2 hours, laboratory 1 hour. Prerequisite: EDU 3210 and admission to the Teacher Education Program.

EDU 4250 Literacy Education in the Secondary School 4 s.h.
Intended for secondary teacher certification.

Introduction of the theoretical foundation for literacy development and a study of the methods and processes in developmentally appropriate instruction. Emphasis is placed on the principles, techniques, and processes of literacy instruction needed for middle and high school students to be independent, strategic learners in the content areas taught in the secondary schools. Prerequisite: EDU 3120 and admission to the Teacher Education Program.

EDU 4380 Literature for Young Adults (ENG*) 3 s.h.

EDU 4400 Behavior Management in the Classroom 2 s.h.

An investigation of the analysis of discipline, behavior modification, and group dynamics, designed to give students an opportunity to discuss various approaches to handling disruptive behavior with actual problem situations. Emphasis on prevention of classroom problems. Prerequisite: EDU 3120 and admission to the Teacher Education Program.

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. Prerequisite: EDU 3120 and EDU 3300, and admission 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 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, EDU 3120. Corequisite: EDU 4500.

EDU 4500 Theory and Techniques of Instruction: Elementary School (K-8) 4 s.h.

Theory of instruction, methods, and materials in the elementary school curriculum; observation 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. Lecture 3 hours, laboratory 1 hour. Prerequisites: EDU 2000 and EDU 3120 and admission to the Teacher Education Program.

EDU 4510-4610 Theory and Techniques of Instruction: Major Field (Secondary) 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 simulation and micro-teaching. Emphasis upon the application of effective instructional theory and practice, sound decision-making, and multicultural education in a field-based context. Lecture 3 hours, laboratory 1 hour. Offered Fall only. Prerequisites: EDU 2000 and 3120 and admission to the Teacher Education Program.

EDU 4510 Theory and Techniques of Instruction: Art (K-12) 4 s.h.

EDU 4520 Theory and Techniques of Instruction: Communication Arts (7-12) 4 s.h.

EDU 4530 Theory and Techniques of Instruction: Foreign Languages (7-12) 4 s.h.

EDU 4540 Theory and Techniques of Instruction: Vocational Family and Consumer Sciences (7-12) 4 s.h.

EDU 4550 Theory and Techniques of Instruction: Mathematics (7-12) 4 s.h.

EDU 4560 Theory and Techniques of Instruction: Music (K-12) 4 s.h.

EDU 4570 Theory and Techniques of Instruction: Natural Science (7-12) 4 s.h.

EDU 4580 Theory and Techniques of Instruction: Social Science (7-12) 4 s.h.

EDU 4590 Theory and Techniques of Instruction: Vocational Subjects (9-12) 4 s.h.

Concepts and techniques for developing professional teaching abilities, use of community resources, guidance procedures. Performance objectives, relevant teaching materials, equipment aids, and effective delivery systems in specific adult education and vocational curriculum areas. Lecture 3 hours, laboratory 1 hour. Prerequisites: EDU 2000 and 3120 and admission to the Teacher Education Program.

EDU 4610 Theory and Techniques of Instruction: Computer Science (7-12) 4 s.h.

DIRECTED TEACHING

Applications for admission to Directed Teaching must be approved by the 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-change candidates must register for a minimum of 4 s.h. of directed teaching.

EDU 4680 Directed Teaching: Computer Science (7-12) 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences.

EDU 4690 Directed Teaching: Middle School (5-9) 4, 8 s.h.

Observations and teaching in classroom situations and individual conferences.

EDU 4700 Directed Teaching: Elementary School (K-8) 4, 6, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4710-4790 Directed Teaching: Secondary School 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

EDU 4710 Directed Teaching: Art (K-12) 4, 8 s.h.

EDU 4720 Directed Teaching: Communication Arts (7-12) 4, 8 s.h.

EDU 4730 Directed Teaching: Foreign Languages (7-12) 4, 8 s.h.

EDU 4740 Directed Teaching: Vocational Family and Consumer Sciences (7-12) 4, 8 s.h.

EDU 4750 Directed Teaching: Mathematics (7-12) 4, 8 s.h.

EDU 4760 Directed Teaching: Music (K-12) 4, 8 s.h.

EDU 4770 Directed Teaching: Natural Science (7-12) 4, 8 s.h.

EDU 4780 Directed Teaching: Social Science (7-12) 4, 8 s.h.

EDU 4790 Directed Teaching: Vocational/Technical (9-12) 4, 8 s.h.

EDU 4800 Foundations of Education 3 s.h.

The interdisciplinary study of education and schooling in American culture and society. Hypotheses and concepts drawn from a series of disciplines are employed as a means of identifying and examining central characteristics of the American educational system. Particular attention is focused upon the interpretation and appraisal of current

educational practices and trends. Prerequisites: EDU 2000 and 3120 and admission to the Teacher Education Program.

EDU 4810 Seminar: Directed Teaching 1 s.h.
Selected topics designed to orient students to the reality of teaching, to guide and support them during the intensive student teaching internship, and to address topics that relate to students' short-term interest in securing teaching positions and to their long-term career effectiveness. *To be taken concurrently with Directed Teaching.*

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)

ENG 1000 Introduction to University Level Writing 3 s.h.
Introduction to university-level writing using challenging materials and requiring a variety of writing experiences, including both expressive and transactional communication. (Does not apply to any major or minor in English and Communication Arts department.)

ENG 1010 Communication Skills I 3 s.h.
The first course in college composition, with emphasis on organizing essays for various academic purposes for various academic audiences. Attention is paid to the process of writing and the art of revision, with various strategies suggested for editing sentences to achieve standard grammar, punctuation, and spelling; oral presentation; writing and revision on computer. *(Does not apply to any major or minor in English and Communication Arts department.)*

ENG 1020 Communication Skills II 3 s.h.
A continuation of English 1010, with emphasis on argumentation, research, citation, and quotation. Further attention is paid to the process of writing and the art of revision, with useful suggestions for writing across the curriculum. *(Does not apply to any major or minor in English and Communications Arts department.)*

ENG 1320 Newspaper Reporting (JRN*) 3 s.h.

ENG 2000 Technical Writing 3 s.h.
Theory and application of technical writing principles, culminating in the preparation of a research paper. Topics discussed include: definitions, instructions, processes, computer graphics, and research strategies. Web site evaluation and research, along with writing for the Web, are covered. Course concludes with an oral presentation of research paper findings.

ENG 2090 Approaches to Grammar 4 s.h.
A linguistics course providing an historical sketch of the development of the English language and treating the interplay between theory of language and approaches to the study of grammar. By analyzing English phonology, graphology, 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, register, and genre on communication in English are explored. Applications to teaching grammar in elementary and secondary settings are examined.

ENG 2230 Ideas in World Literature 3 s.h.
Survey of Western civilization as expressed in major literary works which reveal the distinctive ideals, values, and attitudes of

various eras; includes works outside the Western tradition produced during the same eras.

ENG 2400 Masterpieces of Polish Modern Literature (POL*) 3 s.h.

ENG 2550 Oral Interpretation of Literature (SPH*) 3 s.h.

ENG 2620 Language and Culture 3 s.h.
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, are considered, along with methods of semiotic and discursial analysis.

ENG 2950 Critical Writing and Literary Analysis 4 s.h.
A study and practice of the methods used to analyze the contents of a literary work; a review of major themes and schools of literary criticism. Prerequisite: ENG 1020.

ENG 3000 Children's Literature and Drama (SPH) 4 s.h.
Classical and contemporary writing for children; dramatization of stories. Selection of materials with reference to the interest, needs, and abilities of children. (NOTE: This course fulfills the upper-division literature General Education Requirement for students in the Elementary Provisional Certificate program only. Students who begin elementary certification and transfer out must fulfill Goal 3.C. with a course listed on page 50.)

ENG 3010 Major American Writers: Beginnings to 1900 4 s.h.
A study of those writers who expressed in distinctive styles the diverse elements of the American experience from early Amerindian folktales through the end of the nineteenth century, often including Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and Douglass.

ENG 3020 Major American Writers: 1900 to Present 4 s.h.
Critical examination of major writers, poets, and dramatists who have explored the changing values and concerns of American society in the twentieth century; minority and ethnic perspectives are expressly noted.

ENG 3050 Creative Writing 3 s.h.
Critical study and practical application of the techniques of poetry, fiction, and drama, with emphasis on creative expression.

ENG 3100 Advanced Composition 3 s.h.
Application of advanced writing strategies with emphasis on argumentation; assignments corresponding to research and writing demands of varied academic disciplines including humanities, natural science, social sciences, and business; use of word processing and editing software for writing. Prerequisite: ENG 1010 (with department approval this course may be substituted for ENG 1020).

ENG 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: ENG 1020.

ENG 3400 Shrinking Hope: the Poetry of W. Szyborska (POL*) 3 s.h.

ENG 3440 Advanced Technical Writing 3 s.h.
Application of technical writing principles to individual career demands. Analyses of case studies, with emphasis on appropriate writing and media strategies for the intended audience. Preparation of advanced documents. Introduction to on-line help software. Prerequisite: ENG 2000 or departmental approval.

ENG 3500 Against Nothingness: the Poetry of C. Milosz (POL*) 3 s.h.

ENG 3540 American Folklore and Literature 4 s.h.
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 3550 Women in Literature 4 s.h.
Study of representative prose and poetry by and about women which focuses on their search for independence and fulfillment.

ENG 3610 Major British Writers: Chaucer to Johnson 4 s.h.
A study of principal figures in British literature from the fourteenth through the eighteenth century; includes Chaucer, Spenser, Shakespeare, Donne, Milton, Swift, Pope, and Samuel Johnson.

ENG 3620 Major British Writers: Blake to Eliot 4 s.h.
An examination of major British authors from the Romantic period to the post World War I era; includes Blake, Wordsworth, Keats, Shelley, Coleridge, Byron, Tennyson, Browning, Dickens, George Eliot, Hardy, Conrad, Yeats, Joyce, and T.S. Eliot.

ENG 3710 Contemporary Literature 4 s.h.
A study of contemporary authors who may be classified as Modernist or Postmodern; figures may include principal ethnic and minority writers.

ENG 3960 Portfolio I: Foundation and Development 1 s.h.
Students begin assembling individual portfolios that represent their academic and professional work in their respective programs of study within the Department of English and Communication Arts. Students gain an understanding of what a program portfolio is and how it works, and learn to engage in a portfolio process. Prerequisite: Junior-level standing.

ENG 4210 Time and Literature (HIS) 4 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 4300 Life and Death in Modern Polish Poetry (POL*) 3 s.h.

ENG 4380 Literature for Young Adults (EDU) 3 s.h.
Study of genres and themes presented by contemporary writers of literature for young people: violence in society, search for identity, family life, friendship, historical fiction, poetry, short stories, adventure, and fantasy. Course does not fulfill upper level general education requirement, Goal 3.C..

ENG 4540 Classics of African-American Literature 4 s.h.
Focus on African-American literature in all three genres: prose, poetry, and drama. Course content includes significant African-American writers from the 18th-19th centuries (Wheatley, Douglass) but focuses primarily on 20th century works by Wright, Baldwin, Hansberry, Walker, Morrison, and others.

ENG 4550 Voices of Pluralism in American Literature 4 s.h.
Focus on minority literatures besides African-American literature. Course content includes, but is not limited to, Asian-

American, Arab-American, Latino-American, and Native American literatures. Authors under study may include Tan, Kingston (Asian-American), Said (Arab-American), Rodriguez, Anzaldúa (Latino-American), Erdrich, Silko (Native American).

ENG 4750, 4760 Studies in Literature 4 s.h. each
Topics in literature vary on a semester basis. Seminar is required of English majors but is open to all students.

ENG 4960 Portfolio II: Showcase and Career Goals 2 s.h.
Students complete work begun in English 3960, culminating in a showcase portfolio. It is intended not only to showcase students' best work, but also to give students the opportunity to make connections between their education and career goals, so that the portfolio serves academic and employment purposes. ENG 3960 and 4960 together may serve as a capstone for the major, alternative to the selection of HUM 4960. Prerequisite: English 3960. (Portfolio I and II cannot be taken together.)

English as a Second Language (ESL)

ESL 1010 Orientation to Higher Education for the International Student 3 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. *This course substitutes for UNV 1010, Transition to Higher Education, in meeting graduation requirements.*

ESL 1130 Beginning ESL Reading and Writing 3 s.h.
Basic reading and writing course focusing on sentence level reading and writing. Includes grammar manipulation of simple sentences which are contextualized to integrate reading and writing.

ESL 1140 Beginning English Grammar 3 s.h.
An interactive approach to understanding the role of grammar in English communication. The fundamentals of English grammar such as parts of speech, simple verb tenses, questions, and negative forms.

ESL 1160 Beginning ESL Speaking and Listening 3 s.h.
Promotion and practice of production and comprehension of conversational and survival levels of communication. It is recommended that students take ESL 1130 and ESL 1160 simultaneously.

ESL 2130 Intermediate ESL Reading and Writing 3 s.h.
Expanding sentence structure and paragraph construction including unity, coherence, and transitional phrases. Readings from contextualized reading and writing practice.

ESL 2140 Intermediate English Grammar 3 s.h.
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 2160 Intermediate ESL Speaking and Listening 3 s.h.
Beginning formal speaking and sustained factual listening is experienced extensively. Short speeches videotaped, reviewed, and critiqued. Pronunciation practice is an integral part of the preparation for speech delivery. Colloquial versus formal language examined.

ESL 3130 Advanced Reading and Writing 3 s.h.

Expanding the knowledge of organizational patterns used in writing compositions and paragraphs. Integrated readings serve as models for the principal parts of compositions, with stress on coherence and unity.

ESL 3140 Integrated English Grammar 3 s.h.

The study of English grammar as a developmental skill is presented by integrating reading and rhetoric to identify key structures and grammar rules that govern them. Focus on the formation and manipulation of clauses in complex sentences and the sequence of verb tenses across clauses.

ESL 3150 Advanced ESL Reading 3 s.h.

Reading strategies such as the SQ3R reading method introduced and practiced to prepare for the transition from ESL texts and literature to content-specific literacy and increased linguistic complexity.

ESL 3160 Advanced Speaking and Listening 3 s.h.

Continued development of conversational speaking and listening skills. Experience listening and speaking in conversational and academic settings. Video taped oral presentations given and critiqued using various topics encountered in general education courses.

ESL 4130 Advanced Academic Reading and Writing 3 s.h.

Special emphasis on reading unabridged academic texts with speed and accuracy. Essays in the reading segment serve as models for the writing component of the course. Extensive practice in rhetorical strategies and techniques and a review of appropriate grammatical structures and verb tenses. Preparation for ENG 1010, using the "Process" approach to writing.

ESL 4140 Advanced English Grammar 3 s.h.

The study and analysis of the grammatical structures of English within contemporary literature and rhetoric. Theme-based grammatical presentation, inductive exercises, and common errors related to target structures are presented using authentic academic contexts.

ESL 4150 Advanced Academic Reading 3 s.h.

Authentic content-specific academic readings are used to focus on comprehension of difficult undergraduate level texts. Current articles of political, economic, and sociological importance, taken from journals and periodical literature, are read, analyzed, and written about. Linguistic morphology, such as stems and affixes, are identified and applied to facilitate increased reading speed and comprehension.

ESL 4160 Advanced Academic Speaking and Listening 3 s.h.

Designed to help advanced ESL students prepare for the demands of academic lecture comprehension and taking notes, predicting, evaluating, and organizing academic lectures. Formal speeches are practiced, video taped, and critiqued. A TV News production with student-generated segments, using a teleprompter, is performed in the Madonna University TV studio.

ESL 4230 Academic ESL 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 sources 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 ENG 1020, Communication Skills II. It therefore fulfills the General Education Requirement for English 1020.*

NOTE: UP TO 20 SEMESTER HOURS OF ESL COURSE WORK MAY BE USED TO SATISFY DEGREE REQUIREMENTS.

Environmental Science (ENV)

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 Limnology: The Study of Lakes 3 s.h.

A study of the influences of physical, chemical, and biological factors on the structure and function of inland lakes and ecosystems. Prerequisite: 6 s.h. in Biology

ENV 3320 Environmental Analysis 4 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, 2210, MTH 1210 or equivalent

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.

Independent research, directed reading, or special problems under the supervision of a faculty member. Prerequisites: recommendation of major advisor and problem director.

ENV 4710 Environmental Pollutions 4 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. Three hours of lecture and three hours of laboratory. Prerequisites: BIO 1040, CHM 1120

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 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*/NSF) 4 s.h.**FCS 2160 Child Development and Guidance (CD*) 4 s.h.****FCS 2250 Human Nutrition (HMG/NSC/NFS*) 4 s.h.****FCS 2260 Introductory Food Science (HMG/NFS*) 4 s.h.****FCS 2370 Apparel Evaluation (MM*) 3 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 3050 Textiles for Consumers (MM*) 3 s.h.**FCS 3130 Adolescent Psychology (PSY*) 4 s.h.****FCS 3530 Marriage and the Family (RST*/SOC) 4 s.h.****FCS 3630 Architectural Styles and Interior Design (HMG/MM*) 4 s.h.**

FCS 3700	Life Cycle Financial Planning (FIN*)	3 s.h.
FCS 3750	Human Shelter and Environment (MM)	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 (CD*)	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	Seminar (CD*)	2 s.h.

Financial Administration (FIN)

FIN 3150	Business 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: time value of money, working capital management, leverage, ratio analysis, capital budgeting, capital structure decisions, dividend policy, and international financial management. Prerequisites: ACC 2020 and ECN 2730.		
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, and individual income taxes. The life cycle of personal investment strategies is explored.		

Fire Science (FS)

FS 1010	Introduction to Fire Protection and Prevention	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 (OSH)	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 (OSH)	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 3280	Fire and Arson Investigation (OSH)	3 s.h.
Role of safety/fire science specialist in arson investigation; methods and mechanics of protecting, searching, and controlling fire scene; interviewing and interrogation; recognition and preservation of evidence; case preparation, court testimony, corpus delicti, alibis, motives; dealing with pyromaniacs and juvenile fire setters; Michigan and national arson laws. Prerequisites: FS 1010 and 2150.		
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 and 2540.		
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 characteristics of special fire protection systems; halons, CO ₂ , dry chemical foam, and alarm and detection systems. Prerequisite: MTH 1050 or its equivalent.		
FS 3910	Cooperative Education II (OSH)	1-3 s.h.
Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or institutional settings. Preservice students only.		
FS 3930	Internship II (OSH)	1-3 s.h.
Advanced semi-professional level assignments in on-the-job application of fire protection principles in either municipal, industrial, commercial, or institutional settings. Preservice students only.		
FS 4280	Fire and Arson Investigative Techniques (OSH)	3 s.h.
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 findings for expert witness. Prerequisite: FS 3280.		
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 (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. <i>Taken by students with senior status as a requirement for graduation; to be taken in the final six hours of the program.</i>		

Foreign Languages (FL)

FL 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.

Foreign Language Study

Madonna University offers majors and minors in American Sign Language, Polish, and Spanish (see under these listings) as well as course work in Japanese and occasional introductory years in other modern languages. Students who wish to study a language not being taught at Madonna University should see their major advisor or the Office of Academic Advising to arrange Consortium registration at the University of Detroit Mercy or Marygrove College, or see the Center for International Studies to discuss opportunities for study abroad.

Forensic Science (FOR)

FOR 3050 Criminal Procedures (CJ*/LAW) 3 s.h.

FOR 3110 Criminal Investigation (CJ*) 3 s.h.

FOR 3210 Principles of Criminology (CJ*/SOC) 3 s.h.

FOR 3820 Forensic Psychology (PSY*/CJ) 3 s.h.

FOR 4230 Homicide Investigation (CJ*) 3 s.h.

FOR 4610 Methods in Forensic Science Analysis 4 s.h.

Theory and application of modern forensic science techniques, including evidence processing, physical and molecular characterization, and data analysis. 2 hours lecture and 6 hours of lab per week. Prerequisites: BIO 3010, CJ/FOR 3110, CHM 3310, and CHM 3610.

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 Forensic Science students with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

General Science (GSC)

GSC 4950 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. *Taken by general science majors with senior status as a requirement for graduation; to be taken in the final six hours of the program.*

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 3010 World Regional Geography 4 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.

Gerontology (GER)

GER 1070 Introduction to Gerontology 3 s.h.

A general overview of the field of aging. Topics include demographic aspects as well as biological, psychological, and social aspects of the aging process.

GER 2010 Introduction to Alzheimer's Disease and Other Dementias (PSY) 1 s.h.

An overview of Alzheimer's disease and other causes of dementia in older adults. Topics include diagnosis and current approaches to managing these diseases. Prerequisite course for GER 3460.

GER 2100 Physical Education Activities (PED) 2 s.h.

Design, conduct, and evaluation of physical education programs for older adults. Emphasis on determining appropriate program content, resources, music selection, and leadership techniques.

GER 2240 Supporting Family Caregivers 1-2 s.h.

An overview of the informal and formal resources available to the caregiver responsible for the mental, physical, and emotional well-being of an aged family member.

GER 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.

GER 2420 Nutrition for the Aging (NFS*) 3 s.h.

GER 2460 Working with Disabled Older Adults 2 s.h.

Examines programs, techniques, and resources that address the needs of older adults challenged with aphasia, physical limitations, dementia, and developmental disabilities. Explores the social, psychological, and physical potential of each group.

GER 3020 Program Planning for Older Adults (EDU) 3 s.h.

Focus on the learning potential of older adults; designing programs that address the educational needs and interests of older persons in a variety of environments.

GER 3030 Spirituality of Aging 1 s.h.

Explores the spiritual tasks of the later years with an emphasis on integrating an understanding of those tasks into the practitioner's own journey of aging and into their professional work with older adults.

GER 3060 Community Resources 1 s.h.

Focus on the identification and scope of current and potential resources and programs for older adults.

GER 3070 Psychology of Aging (PSY) 3 s.h.

Overview of adult development and adjustments common to the process of aging; examination of cognitive and emotional developments as a function of aging. Prerequisite: PSY 1010.

GER 3100 Activity in Aging 3 s.h.

An analysis of concepts, theories, and programming related to the role activity plays in successful aging. Topics include the meaning of activity, standards of practice, current modalities, multiple strategies, resource utilization, leadership styles, and motivation.

GER 3150 Physical Aspects of Aging (NSC) 3 s.h.

Study of the normal, as well as the pathological, changes occurring in the aging human body with special emphasis on age-related chronic diseases.

GER 3460 Addressing Behavior Changes in Dementia (PSY) 2 s.h.

Explores the causes of challenging behaviors in people with dementia and discusses strategies for addressing these behaviors. Prerequisite: GER 2010.

GER 3500 Mental Health and the Older Adult 3 s.h.

Basic engagement skills for working with older adults.

Information and interventions related to common mental health issues in older people. Practice in empathic listening, basic interviewing, and problem-solving skills. Symptoms of some common mental health problems and strategies to obtain help for older individuals with those problems.

GER 3630 Addiction Studies: Older Adults (AS*) 1 s.h.**GER 3700 Legal Issues for Older Adults (LAW) 2 s.h.**

An overview of legal issues typically encountered by people in their later years with emphasis on laws and policies affecting management of their care, substitute decision making, public benefits, and medical treatment issues.

GER 3850 Documentation and Assessment 3 s.h.

An overview of documentation and assessment in the field of human services with a strong emphasis on the practice of gerontology. Content includes the biopsychosocial assessment, behaviorally-specific care planning, care management, care path design, and other documentation required in settings that serve older adults.

GER 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 the 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.

GER 4140 Grant Writing 2 s.h.

The basic skills needed to develop and write a successful program proposal to compete for funds from sources outside the control of the organization or agency. Topics include generating program ideas, researching funding sources, utilizing contacts, basic proposal format, self-funding, and understanding the politics of grants.

GER 4150 Social Gerontology (SOC) 3 s.h.

Focus on the impact of aging upon the individual and society. An examination of attitudes, concepts, theoretical perspectives, and issues of an aging culture.

GER 4250 Public Policy and Resources in Aging 3 s.h.

Examination of public policies, legislation, and resources related to older people. Focus on the role of gerontology professionals in policy decision-making and the role of ethics. Analysis of structure and functions of service delivery systems and organizations.

GER 4760, 4770 Field Placement, Field Seminar 4, 2 s.h.

Professionally supervised practical experience (225 clock hours) with organizations providing services to, or for, older adults. Students meet regularly with their University instructor to discuss placement progress, resume writing, and job search strategies.

GER 4850 Gerontology Management 3 s.h.

Examination of gerontology management techniques. Focus on basic principles of management as they relate to human services.

GER 4870 Nursing Home Administration I 3 s.h.

An overview of health concerns in the nursing home. Topics include: Federal and State health regulations, dietetics, health policy, pharmacology, infection control, nursing, quality assurance, and physical plant.

GER 4880 Nursing Home Administration II 3 s.h.

Focus on regulatory issues of nursing home administration, Medicare and Medicaid insurance requirements, budgeting and accounting, and life safety codes.

GER 4950 Gerontology Senior Seminar 3 s.h.

Methodological and philosophical foundations of gerontology. Students prepare and present an original research paper and formulate an individual approach to aging. *To be taken during the senior year.*

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 1080 Ancient World 4 s.h.

Three-part investigation of ancient times, including the Ancient Near East, Ancient Greece, and the Roman Republic and empire; the origins of Christianity.

HIS 2310 United States to 1900 4 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 2450 Medieval and Renaissance Europe 4 s.h.

Study of the Middle Ages from the Germanic invasions, emphasizing feudalism, chivalry, the Church and Empire, the Crusades, the Italian Renaissance, and Northern Humanism.

HIS 2750 Michigan History 2 s.h.

Significant people and events during Michigan's long history, including the roles of the 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 discussion of the several state constitutions.

HIS 2800 Foreign Study Abroad (HUM) 3 s.h.

Travel to international locations with an emphasis on the study of history, government, language, society, and/or culture. Coordinated through the Center for International Studies; either individuals or groups may enroll. *Applies to International Studies Certificate and to selected programs, with approval of advisor.*

HIS 3000 History of East/Central Europe (POL*) 3 s.h.**HIS 3220 Race, Ethnicity, and Class in American Life (SOC) 4 s.h.**

Survey of historical and contemporary expressions, patterns, and consequences of intergroup tensions stemming from discrimination in American Life.

HIS 3300 Early Modern Europe 4 s.h.

European politics, religion, and ideas from the Age of Discovery to the Napoleonic Wars, with emphasis upon the Reformation, religious and dynastic wars, scientific revolution, absolute monarchies, the Enlightenment, and the French Revolution.

HIS 3330 Modern Europe, 1815-Present 4 s.h.

European politics and ideas from the Napoleonic Wars to contemporary Europe, emphasizing the industrial revolution, the Victorian Age, German unification, imperialism, First World War, Bolshevik Revolution and Stalinist Russia, Fascism and the Second World War, the Cold War, and the Rise of Europe.

HIS 3410 Minority Groups in America 4 s.h.

Conflict between the revolutionary ideals of the American dream and the reality of majority-minority group relations from colonial America to the present.

HIS 3510 Polish History to 1795 (POL*) 3 s.h.

HIS 3520 Polish History Since 1795 (POL*) 3 s.h.

HIS 3570 Modern Asia 3 s.h.
Emergence of Modern Asia and the relationship of the United States to the Pacific Basin, with special attention to Japan and the People's Republic of China, emphasizing the political and economic development of the past 150 years in Asia, from colonialism to nationalism, from military clashes to economic competition.

HIS 3810 American Civil Rights Movement (LAW) 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 complementary 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.
Study of selected topics of interest in History.

HIS 4210 Time and Literature (ENG*) 4 s.h.

HIS 4320 Diplomatic 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 4510 Economic and Business History of the United States (ECN) 4 s.h.
Survey of major changes in the American economy, including transportation, industry, labor, finance, and marketing. Role of private business and government in economic change.

HIS 4530 United States in the Twentieth Century 4 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 4630 Emerging Nations (PSC) 3 s.h.
Introduction to patterns of political, social, religious, and economic development of emerging nations in Asia, Africa, and Latin America.

HIS 4800 Foreign Study Abroad (HUM) 3 s.h.
Travel to international locations with an emphasis on the study of history, government, language, society, and/or culture. Coordinated through the Center for International Studies; either individuals or groups may enroll. *Applies to International Studies Certificate and to selected programs, with approval of advisor.*

HIS 4810 American Civil War 4 s.h.
Examination of the American Civil War, the pivotal event in the American experience, emphasis on the causes of the Civil War, the course of the War from several angles, and an overview of Reconstruction.

HIS 4950 History and Social Science Seminar (SSC) 4 s.h.
Theoretical and philosophical foundations of history and the social sciences, including a paper or project reflecting methodological skills. Prerequisite: senior status in the major.

Hospice Education (HSP)

HSP 2210 Introduction to Hospice Care Concepts 3 s.h.
Deals with the history of the hospice movement and the philosophy of care inherent in it; is humanistic and interdisciplinary in nature; emphasizes the therapeutic community and the hospice team; stresses hospice as a concept of care, not simply as an institution; discusses recent studies done in the hospice field and local practices.

HSP 3310 Management of the Bereavement Process 3 s.h.

The basic foundations of the bereavement process, focusing on management of the transitions subsequent to losses in life. An overview of grief theorists provides students with a comprehensive knowledge base about traditional "stage" theories and those that go beyond coping, suggesting growth through grief. Exploration of attitudes about death and dying and existing myths in bereavement; circumstances of a death and complicated mourning as they relate to grief's resolution; some emphasis on children and adolescent grief and suggestions for assisting grieving persons. Perspective of student as caregiver as well as student as griever.

HSP 3480 Psychosocial Components of Hospice Care (PSY) 3 s.h.

Exploration of the psychosocial aspects of terminally ill patients and families across the lifespan: examination of the importance of communication skills and cultural sensitivity in the delivery of end-of-life care, identification of psychosocial needs for patients and families; discussion of various interventions to meet those needs. Self-care and the concept of mindfulness discussed.

HSP 3500 Spiritual and Ethical Considerations in Hospice Care (RST) 3 s.h.

Exploration of the ethical principles involved in problem-solving of moral issues for clients, families, and/or caregivers. Studies dealing with death and dying issues. Overview of major world religions, identifying their tenets/practices related to meeting the spiritual needs of the terminally ill and their families. Examples of how the interdisciplinary hospice care team can facilitate spiritual comfort in their clients and their families.

HSP 3530 Comfort and Care for the Hospice Client 3 s.h.

Instruction in the physical aspects of therapeutic interventions to relieve the distress of common problems associated with disease process, emphasis on ways to control pain and manage other symptoms associated with dying, provides for practicing selected comfort measures in a simulated laboratory setting.

HSP 4620 Managing Hospice Services I 3 s.h.

Focus on the general functions of a manager and application of these functions to hospice settings. Examines the history of hospice management as well as theories of motivation and leadership. Emphasis on leadership and development and understanding organizational behavior.

HSP 4650 Hospice Field Experience I 3 s.h.

Consists of 15 hours of seminar and 90 hours of practicum in selected agencies. The experience includes observing and applying principles of palliative care and management in a variety of hospice settings. Prerequisite: department approval.

HSP 4750 Emerging Issues in Interdisciplinary Hospice Care 3 s.h.

Current issues and emerging trends in the evolution of hospice care. Review and analysis of relevant literature and research from various professional journals and publications. Compares and contrasts current literature as it related to real world implementation of hospice and palliative care delivery.

HSP 4820 Managing Hospice Services II 3 s.h.

Focus on advanced management functions and application of these functions to various hospice settings. Explores fiscal management, marketing, public relations, strategic planning, human resource management, funding sources, legal issues, and quality assurance. Prerequisite: HSP 4620.

HSP 4850 Hospice Field Experience II 2 s.h.

Advanced field experience in a specific area related to the student's interest of specialization. Consists of 15 hours of seminar

and 125 hours of practicum in selected agencies. Includes observation and application of principles of hospice care and management in a chosen hospice setting. Prerequisite: HSP 4650. *Must be taken concurrently with HSP 4950.*

HSP 4950 Hospice Senior Seminar 2 s.h.
Preparation and presentation of a structured student portfolio that demonstrates evidence of course work that is selective, reflective, and collaborative, demonstrating student learning about hospice and palliative care throughout program of study both in and out of the classroom. *To be taken concurrently with HSP 4850 and only by students with senior status in Hospice Education as a requirement for graduation.*

Hospitality Management (HMG)

HMG 2250 Human Nutrition (FCS/NFS*/NSC) 4 s.h.

HMG 2260 Introductory Food Science (FCS/NFS*) 4 s.h.

HMG 2400 Principles of Retailing (MKT/MM*) 3 s.h.

HMG 2550 Consumer Behavior (MKT*/MM/NFS) 3 s.h.

HMG 2760 Food Service Sanitation (NFS*) 2 s.h.

HMG 3100 Facility Design and Event Management (SM*) 3 s.h.

HMG 3360 Lodging Management I (NFS/MGT) 3 s.h.
A study in general responsibilities of various departments within the rooms, the food and beverage, the marketing and sales, and the administrative divisions of a lodging property. Prerequisite: MGT 2360.

HMG 3460 Food Service Management I (NFS*) 3 s.h.

HMG 3630 Architectural Style and Interior Design (MM*/FCS) 4 s.h.

HMG 3660 Market Field Study (NFS) 2 s.h.
Three day on-site visit to a hospitality market and trade show where hospitality industry leaders offer valuable current educational sessions; and to hotels, restaurants, and private clubs in the same city that provide an inside look at the operation of selected hospitality venues.

HMG 4260 Club Management (MGT/SM) 3 s.h.
General administrative procedures in the management of private clubs. Study and analysis of club operations, club boards of directors, service excellence in clubs, leadership in club operations, quality management systems for clubs, club marketing, food and beverage operation in clubs, financial management, and fundamental features of specific categories of private clubs. Prerequisites: MGT 2360, CIS 2250 or 2380.

HMG 4360 Lodging Management II (NFS/MGT) 2 s.h.
A study of various organizational structures and systems in the lodging industry and the authority vested in the respective levels of management. Emphasis on operations analysis and problem solving. Prerequisites: HMG 3360 and MGT 2360.

HMG 4370 Marketing Hospitality Services (MKT) 3 s.h.
An in-depth look at the nature and scope of the meetings, convention and trade show markets, how to effectively service this market, and increase market share for properties. Prerequisite: MKT 2440.

HMG 4460 Food Service Management II (NFS*) 3 s.h.

Humanities (HUM)

HUM 2010 The Medium and the Message 4 s.h.
Interdisciplinary introduction to art, history, music, and literature, focusing on their means of communication and potential to express spiritual, humanistic, and aesthetic concepts.

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. *Alternate to HUM 2010 in fulfilling General Education Goal 3.A.*

HUM 2220 Cinema of Former Czechoslovakia and Yugoslavia (POL*) 3 s.h.

HUM 2300 Russia through Russian Films (POL*) 3 s.h.

HUM 2800 Foreign Study Abroad (HIS*) 3 s.h.

HUM 3050 The Idea of Justice (RST) 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 the 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 or permission of instructor.

HUM 3330 Poland Through Polish Film (POL*) 3 s.h.

HUM 3360 Films of Krzysztof Kieslowski (POL*) 3 s.h.

HUM 3700 The Faces of Evil in the 20th Century (POL*) 3 s.h.

HUM 3750 Religion and Society (SOC*) 3 s.h.

HUM 4800 Foreign Study Abroad (HIS*) 3 s.h.

HUM 4950 Senior Seminar 1 s.h.
Interdisciplinary seminar requiring majors in humanities disciplines to integrate and synthesize knowledge gained in the major and relate that to other humanities fields. Emphasis on demonstrating the analytical, critical, and communication skills necessary for competency in a humanities discipline.

HUM 4960 Senior Seminar 3 s.h.
An interdisciplinary capstone seminar in the arts and humanities, and the essentials of what it takes to be an "educated person" in the liberal arts tradition. Students demonstrate their mastery of a major-related topic through the completion of a substantial research paper and a formal presentation of its thesis. *Highly recommended for students planning to attend graduate school.*

Integrated Core Curriculum (ICC)

See listing under CATHOLIC INTEGRATED CORE CURRICULUM.

Interdisciplinary Studies (IDS)

IDS 3000 Interdisciplinary Topics Seminar 3 s.h.

An interdisciplinary exploration of a topic or theme related to global, technological, or societal issues, focusing on the pervasive long-term implications this issue will have for the future as well as the human dilemmas that will emerge. Emphasis on developing critical thinking and interdisciplinary problem-solving skills, particularly in the context of information access and management. A writing intensive course.

IDS 3020 Tools for Success in Interdisciplinary Studies 1 s.h.

Introduction to the field of interdisciplinary studies, the goals for the IDS major, the plan of study approval process, and the capstone requirement for the major (portfolio or research project). Required on-line course for IDS majors.

IDS 4950 Senior Seminar 3 s.h.

Culmination of the student's plan of study resulting in an interdisciplinary project, requiring a research paper or interdisciplinary/multi-genre portfolio and an oral presentation. Students must demonstrate competency in writing, critical thinking, interdisciplinary problem-solving, and information management. Prerequisites: IDS 3000; ENG 3100 (can be co-requisite); and senior standing.

International Business (INB)

INB 3140 International Business 3 s.h.

The relationship of culture, politics, law, and economics to the operation of multinational business. An integrated approach to marketing, finance, law, management, sociology, political science, and economics.

INB 4350 International Trade Structures and Systems 3 s.h.

An examination of current theories of the patterns of international trade and finance. An exploration of the history, institutional framework, and structural patterns of international trade. Discussion of theories of the determination of exchange rates. Prerequisites: ECN 2720, ECN 2730, and INB 3140.

INB 4450 International Management 3 s.h.

Study of international management as a function of characteristics of the nation state and its international trade practices, policies, and management expectations. Prerequisites: INB 3140 and MGT 2360.

INB 4500 International Business and Culture Experience 1-3 s.h.

Students work with an advisor to select a country of travel, establish learning objectives, and develop guidelines to write a paper.

INB 4710-4750 Seminars 1-3 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 4710 Brunch with an Expert Seminar 1 s.h.

INB 4720 Literature Review Seminar 3 s.h.

INB 4730 Research Seminar 3 s.h.

INB 4740 General Topic Seminar 1-3 s.h.

INB 4750 Leadership Seminar 1 s.h.

INB 4930 Internship 2 s.h.

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.

Japanese (JPN)

JPN 1010, 1020 Beginning Japanese I, II 4, 4 s.h.

Introduction to the rudiments of spoken and written Japanese. Focus on the four language skills: speaking, listening, reading, and writing, particular emphasis on speaking and listening. Introduction of hiragana and katakana writing systems, as well as to a limited number of Chinese characters (Kanji). Close attention to the social and cultural context of Japanese language. Prerequisite for JPN 1020 is JPN 1010.

JPN 2010, 2020 Intermediate Japanese I, II 4, 4 s.h.

Continuation of the study of Japanese, concentrating on the acquisition of more advanced grammatical patterns, vocabulary, and 200 Toyo Kanji. Intensive classroom drills provide opportunities to practice listening as well as to gain confidence in speaking within a structured setting. Emphasis on recitation, reading and writing. Prerequisite for JPN 2010 is JPN 1020; prerequisite for JPN 2020 is JPN 2010.

JPN 3210 Survey of Japan 3 s.h.

Introduction to Japanese history, religion, culture, geography, statecraft, and social institutions, using a historical-chronological approach to how the distinctive attitudes of the Japanese have emerged and changed over time. Particular examination of the arts as an eloquent record of Japanese culture and Japanese definitions of themselves and their vision of life. Course taught in English.

JPN 4230 Japanese Literature in Translation 3 s.h.

A survey of Japanese literature from antiquity to the present, emphasizing the development of Japanese culture and civilization and the distinctive themes, values, ideals, and literary forms of various periods with special attention to the relationship between literature and the performing arts in Japan. Works are read in translation.

Journalism and Public Relations (JRN)

JRN 1210 Introduction to Commercial Art (ART*) 4 s.h.

JRN 1320 Newspaper Reporting (ENG) 3 s.h.

Organization of the modern newspaper; news values and news sources; structures of the news story; practical training in gathering and writing typical news stories.

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. Prerequisite: JRN 1320 or departmental approval.

JRN 2100 Media Relations in Sport (SM*) 3 s.h.

JRN 2510 A Survey of Telecommunications (TVC*/SPH) 3 s.h.

JRN 2860 Editorial Writing and Feature Writing 3 s.h.
Study of writing of newspaper features; principles and ethics of editorial judgment; the means of persuasion; nature, structure, and function of the editorial; editorial page layout and content; writing of opinion articles. Prerequisite: JRN 1320 or departmental approval.

JRN 2910, 2920 Journalism/Public Relations Practicum/ Cooperative Education 1-4 s.h. each

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 teaching 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 or permission of instructor.

JRN 3160 Newspaper 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. Prerequisite: JRN 1320 and 2860; or departmental approval.

JRN 3510 Television Production Techniques I (TVC*/SPH) 3 s.h.

JRN 3520 Television Production Techniques II (TVC*) 3 s.h.

JRN 3570 Editing and Copyreading 3 s.h.
Principles of editing, headline writing, page make-up, use of pictures in newspapers, special sections, magazines. Prerequisite: JRN 1320 or departmental approval.

JRN 3710 Scriptwriting, Proposal Writing, and Budgeting for Television (TVC*) 3 s.h.

JRN 3810 Field Production and Editing I (TVC*) 3 s.h.

JRN 3820 Field Production and Editing II (TVC*) 3 s.h.

JRN 3910, 3920 Journalism/Public Relations Practicum/ Cooperative Education 1-4 s.h. each

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, 2860, and 3570; or departmental approval.

JRN 4010 Foundations of Mass Communication (SPH/TVC) 3 s.h.

Theory of behavior in communications 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. *Required for students seeking teaching certification with a Journalism and Public Relations minor.*

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 4110 Television News Reporting and Production (TVC*) 3 s.h.

JRN 4160 Advanced Newspaper Production 2 s.h.
Selecting and measuring type, photographic art, captions, mastheads, and logos; designing pages within constraints of newshole and budget; editing the school publication under actual deadline conditions. Prerequisite: JRN 1320, 3160, and 3570; or departmental approval.

JRN 4510 Directing and Producing for Television (TVC*) 3 s.h.

JRN 4750 Special Topics in Journalism/Public Relations 1 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

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, 2860, and 3570; or departmental approval.

Legal Assistant (LAW)

See listings under PARALEGAL STUDIES. and NURSE PARALEGAL.

Management (MGT)

MGT 2160 Human Behavior and Attitudes 2 s.h.

Holistic approach to understanding oneself; discussion of various approaches to personal growth and development; overview of communication skills and practices; analysis of personal values and attitudes. *General elective or General Education only. No credit within business majors.*

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. Prerequisite: MGT 2360.

MGT 3160 Human Behavior and Leadership 2 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 exercises, 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 3360 Lodging Management I (HMG */NFS) 3 s.h.

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, or consent of instructor.

MGT 3750 Allied Health Management (AHA) 3 s.h.

Management problems and practices in health care facilities. Prerequisite: MGT 2360.

MGT 4260 Club Management (HMG*/SM) 3 s.h.

MGT 4300 Strategic Planning in an e-Commerce Environment 3 s.h.

Capstone in the e-Commerce Certificate: applying research of strategic management and the management of information technologies to develop an integrated framework for analyzing how the Internet can be used to measure organizational performance in the various functional areas of business. Case studies apply the principles of e-Commerce. Prerequisites: one course each in accounting, management, computer information systems, marketing, and economics; and BUS 3530.

MGT 4350 Compensation 3 s.h.

The development, validation, and 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, QS 3550.

MGT 4360 Lodging Management II (HMG */NFS) 3 s.h.

MGT 4400 National Labor Relations Policy and Practice 3 s.h.

Survey of the contemporary policy and practice of private and public sector employers with respect to their employees. Exposure to a myriad of situations facing contemporary leaders and examination and discussion of the ramifications of various decisions on organizational effectiveness and efficiency, as well as society at large.

MGT 4710-4750 Seminars 1-3 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.

MGT 4710 Brunch with an Expert Seminar 1 s.h.

MGT 4720 Literature Review Seminar 3 s.h.

MGT 4730 Research Seminar 3 s.h.

MGT 4740 General Topic Seminar 1-3 s.h.

MGT 4750 Leadership Seminar 1 s.h.

MGT 4910 Cooperative Education 1 s.h.

MGT 4920 Cooperative Education 1 s.h.

MGT 4950 Business Policy 3 s.h.

Capstone course for students with a major in Accounting, Business Administration, Computer Information Systems, Financial Administration, International Business, Management, or Marketing: students bring to bear all the experience and knowledge of their study of business administration to analyze central problems of profit and not-for-profit enterprises and to apply strategic management in

developing business policy. Case study approach. Prerequisites: all required Business core and major required courses.

Marketing (MKT)

MKT 2100 Promotional Mix: Professional Selling 2 s.h.

Study of the theory and use of personal selling as it relates to the promotion of the marketing mix and as integrated with the other elements of the promotion mix.

MKT 2120 Promotional Mix: Theory and Practice of Teleselling 1 s.h.

Theory and art of selling translated into the format for effective electronic selling (telephone, fax, interactive computer). Focus on application of sales theory to non face-to-face selling. Prerequisites: MKT 2100.

MKT 2140 Promotional Mix: Sales Communication Strategies 2 s.h.

Study of the theory and use of effective communications strategies, vehicles, and target marketing; preparation and presentation of sales communications materials in video, electronic, oral, and printed formats coordinate with the promotion and marketing mix.

MKT 2210 Promotional Mix: Customer Service for Sales 1 s.h.

Study of theory and opportunity to plan for superior customer service as a function of the personal selling element of the promotional mix. Prerequisites: MKT 2100 and MKT 2140.

MKT 2400 Principles of Retailing (HMG/MM*) 3 s.h.

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. Prerequisites: ENG 1010 and 1020. Recommended prerequisite: ACC 2010 or equivalent.

MKT 2550 Consumer Behavior (HMG/MM/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 2620 Fashion Promotion and Coordination (MM*) 3 s.h.

MKT 3010 Specialty Merchandising (MM*) 3 s.h.

MKT 3070 Promotional Strategy 3 s.h.

A study of key promotional tools of advertising, public relations, sales, and sales promotion. Major emphasis on identifying the factors that become the basis of managerial strategy which determine promotional decisions. Prerequisites: MKT 2440 and MKT 2550.

MKT 3080 Visual Merchandising (MM*) 3 s.h.

MKT 3300 Sport Marketing (SM*) 3 s.h.

MKT 3480 Retail Buying (MM*) 3 s.h.

MKT 3500 Electronic Retailing (MM*) 2 s.h.

MKT 3660 Business Marketing 3 s.h.

A study of business marketing as a specialization. Examines characteristics of the industrial marketplace and emphasizes key differences from the consumer goods marketplace. Topics include: value analysis, current market analysis, marketing mix management techniques, how business organizations buy, product development, pricing, competitive bidding and control of costs, and developing and eval-

uating business marketing strategies. Prerequisites: ACC 2010, MGT 2360 and MKT 3070.

MKT 3680 Marketing Communications 3 s.h.

Principles of effective communications as applied to marketing operations, including preparation of marketing surveys and sales communications. Preparation of oral presentations and video informational programs for consumer and business marketing. Prerequisites: MGT 2360, MKT 2440 and ENG 1020.

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. Prerequisite: MKT 3070 or MKT 3680.

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 4370 Marketing Hospitality Services (HMG*) 3 s.h.

MKT 4560 Marketing Management 3 s.h.

A study of the overall marketing strategy pertaining to problems experienced in today's economy, utilizing a case study method. Emphasis on physical distribution, cost analysis, and effective pricing. Prerequisites: QS 3550 and QS 4230, minimum of 12 s.h. in marketing, and senior standing.

MKT 4710-4750 Seminars 1-3 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 4710 Brunch with an Expert Seminar 1 s.h.

MKT 4720 Literature Review Seminar 3 s.h.

MKT 4730 Research Seminar 3 s.h.

MKT 4740 General Topic Seminar 1-3 s.h.

MKT 4750 Leadership Seminar 1 s.h.

MKT 4910 Cooperative Education 1 s.h.

MKT 4920 Cooperative Education 1 s.h.

Mathematics (MTH)

MTH 0950 Developmental Mathematics 3 s.h.

Emphasis on developing computational skills with whole numbers, common and decimal fractions, and pre-algebra. *For credit but not applicable toward degree.*

MTH 1040 Introduction to Algebra 4 s.h.

An introduction to algebraic thinking with a focus on concepts and processes. Problem solving is emphasized and the use of the graphing calculator is integrated throughout the course. A key issue of the course is the development of appropriate skills for later courses including operations with subsets of the real numbers and familiarity with linear functions and equations. *This course does not satisfy general education requirement and does not apply toward math major or minor.*

MTH 1050 Intermediate Algebra 4 s.h.

Second course in algebra, designed to help students develop appropriate skills with algebraic concepts and processes needed

for later courses. Emphasizes problem solving, multiple representations of functions, and the use of a graphing calculator. Prerequisite: MTH 1040 within the last two years with a grade of C or better, or placement test. *Does not apply toward math 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 math 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. *Satisfies the general education requirement.*

MTH 1210 Precalculus 5 s.h.

Focus on a study of functions, their inverses, graphs, and properties. Specifically, polynomial, rational, exponential, logarithmic, and trigonometric functions are explored. Students solve equations and real-world problems involving these functions. Graphing calculators are an integral part of the course. Prerequisites: two years of algebra and a course in trigonometry.

MTH 2300 Business Calculus 4 s.h.

Introduces the concepts and techniques of differential and integral calculus useful to students in business, economics, and the social sciences. Designed to give students a sound, intuitive, and geometric understanding of basic concepts and to enable students to apply a variety of techniques to practical situations. Graphing calculators are an integral part of the course. Prerequisite: MTH 1050.

MTH 2330 Learning and Teaching Number Concepts (EDU) 3 s.h.

Designed specifically for prospective elementary school teachers. Understanding and use of the underlying principles of key mathematical concepts in a problem solving environment. Focus on number sense and numeration, whole number operations, fractions and decimals, computational algorithms, patterns, relations, functions, and informal algebra. A variety of materials, activities, and strategies appropriate to teaching elementary school mathematics are used. Prerequisite: MTH 1040 or equivalent. *A requirement in the planned program for elementary school certification; it satisfies the general education requirement for students in the Elementary Teacher Education Program.*

MTH 2340 Learning and Teaching Geometric and Statistical Concepts (EDU) 3 s.h.

Second course designed specifically for prospective elementary school teachers. Understanding and use of key mathematical concepts in a problem solving environment. 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. A variety of materials, activities, and strategies appropriate to teaching elementary school mathematics are used. Prerequisites: MTH 1040 and MTH 2330. *A requirement in the planned program for elementary school certification.*

MTH 2350 Probability and Statistics 4 s.h.

The basic concepts of probability and statistics such as measures of central tendency and deviation, sampling and sampling distribution, random variables, frequency distribution, statistical inference, hypothesis testing, and applications. Designed to help individuals make

decisions based on analysis of data. Use of the graphing calculator is an integral part of the course. Prerequisite: MTH 1040 or equivalent.

MTH 2510 Calculus with Analytic Geometry I 5 s.h.

A study of the concepts of the calculus including limits of functions, special limits, and continuity; the derivative; and indefinite and definite integration. Applications of these concepts with an emphasis on problem solving with the use of the graphing calculator. Prerequisite: MTH 1210 or departmental approval. *Computer Science majors must complete this course with a grade of C or better within the first 20 hours of their major.*

MTH 2520 Calculus with Analytic Geometry II 4 s.h.

A study of the concepts of the calculus including area and volume applications of the definite integral; various techniques of integration; the calculus of the exponential and logarithmic functions, trigonometric functions and hyperbolic functions; the use of the polar coordinate system; and indeterminate forms and improper integrals. Use of the graphics calculator integrated throughout the course. Prerequisite: MTH 2510. *Computer Science majors must complete this course with a grade of C or better within the first 20 hours of their major.*

MTH 3250 Introduction to Statistical Research 3 s.h.

An extension of statistical techniques to include analysis of variance and correlation. Develops the ability to understand and evaluate research papers. Consideration is given to legitimacy of design, appropriateness of analysis, and validity of conclusions. Prerequisite: MTH 2350.

MTH 3300 Modern Algebra 3 s.h.

Exploration of the ideas, methods, applications, and questions of modern algebra. Basic properties and theorems related to groups, rings, integral domains, and fields; the familiar number systems serve as models for the abstract systems. Students gain experience in abstract reasoning: making and testing conjectures and proving theorems. Prerequisite: MTH 2520

MTH 3330 Algebraic Thinking and Proportional Reasoning 4 s.h.

Designed specifically for elementary school teachers. 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 of situations are used 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 Elementary Teachers 4 s.h.

Designed specifically for elementary school teachers. Students are introduced 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 2520

MTH 3510 Calculus with Analytic Geometry III 4 s.h.

A study of the concepts of the calculus applied to sequences and series, and special series; vectors and analytical geometry in two and three dimensions, including vector-valued functions; partial differentiation and its applications; and multiple integration. Prerequisite: MTH 2520.

MTH 4330 Reasoning and Proof in the Elementary Mathematics Classroom 2 s.h.

Exposes K-8 pre-service and in-service teachers to 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. Age-appropriate ways to foster systematic thinking, conjecturing, and marshaling of evidence are also explored. Prerequisite: MTH 1210, MTH 3330.

MTH 4340 Technology in the Elementary Mathematics Classroom 2 s.h.

Focus on the appropriate use of electronic technologies to help in teaching elementary school children to understand 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 an elementary school mathematics classroom. Prerequisite: MTH 2330 or permission of instructor.

MTH 4510 Introduction to Real Analysis 3 s.h.

Development of a working knowledge of logic and the standard methods of mathematical proof; use of set theory concepts and notation; mastery of the concept of relations, especially equivalency relations; understanding the basic properties of functions and operations of functions; and study of the properties of the real number system. Prerequisite: MTH 3510.

MTH 4530 Differential Equations 3 s.h.

Relevant techniques of solving first-order differential equations, linear differential equations and linear systems, basic theories behind solution techniques to various fields. Prerequisite: MTH 2520.

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 2520.

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 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 in Elementary Mathematics Education 2 s.h.

Students with a major to teach mathematics in the elementary school research and discuss issues and evolving practice related to the teaching and learning of mathematics. Introduction to the professional community of mathematics educators and curriculum and evaluation standards. Opportunity to explore the historical development of mathematics that includes the contributions of various cultures. Oral presentations and a research paper are required. Prerequisite: senior status in the Elementary Certification Program.

Medical Technology (MTE)

- MTE 2010 Introduction to Health Care Professions (AHA*)** 2 s.h.
Introduction to hematology with emphasis on normal and abnormal formed elements of human blood. Laboratory practice in enumeration, identification, and interpretation of dyscrasias as they relate to the clinical situation. Prerequisite: departmental approval.
- MTE 3050 Clinical Hematology** 4 s.h.
Introduction to hematology with emphasis on normal and abnormal formed elements of human blood. Laboratory practice in enumeration, identification, and interpretation of dyscrasias as they relate to the clinical situation. Prerequisite: departmental approval.
- MTE 3070 Immunochemistry and Serology** 4 s.h.
Immunologic principles and practice of blood transfusion science for the medical technologist. Laboratory practice in antigen identification, antibody detection, cross-matching, and procedures aimed at diagnosis and treatment of hemolytic disorders. Prerequisite: departmental approval.
- MTE 3090 Hemostasis and Special Procedures** 4 s.h.
A study of molecular interactions involving cells, vessel walls, and biochemicals in promotion of balance between procoagulant and fibrinolytic activity. Screening and differential diagnosis of primary and secondary disorders of hemostasis. Overview of molecular diagnostics in renal and body fluid anomalies and their clinical correlates. Laboratory exercises in component and special procedures.
- MTE 3630 Clinical Chemistry I (CHM)** 3 s.h.
Physiological chemistry of carbohydrates, lipids, and proteins in health and disease. Laboratory diagnosis of cardiovascular, respiratory, hepatic, and renal disorders. Prerequisite: CHM 1610 or CHM 3610.
- MTE 3650 Clinical Chemistry II (CHM)** 3 s.h.
Pathophysiological diagnosis of endocrine, hematologic, bone, muscle, metabolic, and neoplastic disease. Principles of toxicology, therapeutic drug monitoring, quality assurance, and proficiency testing. Prerequisite: CHM 1610 or CHM 3610.
- MTE 3930 Clinical Internship I** 4 s.h.
Supervised clinical practice for students in MLT program. Prerequisites: MTE 3050, 3070, 3090, 3630, 3650, and department approval.
- MTE 3940 Clinical Internship II** 4 s.h.
Supervised clinical practice in approved clinical laboratory. Prerequisite: MTE 3930 and departmental approval.
- MTE 4510 Internship I** 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C or better and departmental approval.
- MTE 4520 Internship II** 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C or better, MTE 4510, and departmental approval.
- MTE 4530 Internship III** 2-10 s.h.
Clinical practice in NAACLS medical technology program. Prerequisites: all MTE courses with grades of C or better, MTE 4520, and departmental approval.
- MTE 4760 Issues in Health Care Administration (AHA*)** 3 s.h.
- MTE 4780 Educational Principles for Health Care Personnel (AHA*)** 2 s.h.
- MTE 4950 Senior Seminar** 2 s.h.
Evaluation of allied health practices and procedures with emphasis on summation and integration for the entry-level practitioner. *Required of students in the BS in CLS/MT program; to be taken in the final six hours of the program.*

Merchandising Management (MM)

- MM 1090 Introduction to Merchandising** 3 s.h.
Basic principles that influence and govern the merchandising effort; a study of the activities that make up the merchandising function.
- MM 2330 Design Principles** 3 s.h.
Basic principles of color and design as related to fashion and clothing styles. Study of apparel design process and fashion designers.
- MM 2370 Apparel Evaluation (FCS)** 3 s.h.
A study of the components of apparel, from fiber to garment construction and fit. Various quality and price levels are studied and industry terminology is emphasized.
- MM 2400 Principles of Retailing (MKT/HMG)** 3 s.h.
Principles of retail store management; emphasis is given to store location, layout, personnel, structure, buying, inventory, sales promotion, customer services, and operating expenses. Prerequisites: MGT 2360, MKT 2440.
- MM 2550 Consumer Behavior (HMG/MKT*/NFS)** 3 s.h.
- MM 2620 Fashion Promotion and Coordination (MKT)** 3 s.h.
Study of the principles, procedures, and special techniques of fashion promotion and coordination. Analysis of sources of information and responsibilities of fashion promotion personnel in various organizations.
- MM 2910 Cooperative Education** 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- MM 3010 Specialty Merchandising (MKT)** 3 s.h.
Study of the merchandising of specialty goods and services. Specific techniques of merchandising specialty goods are analyzed from the retailer's point of view. Characteristics of specialty goods and consumer buying habits are studied. Prerequisite: MM 2400.
- MM 3050 Textiles for Consumers (FCS)** 3 s.h.
Study of the basic principles and recent developments in the textile industry consumer products arena. Properties of natural and synthetic fibers, yarn, fabric structures, and finishes related to the consumer's end use, performance requirements, and care. Analysis of consumer textile legislation, identification, and labeling are covered. Prerequisite: MM 1090
- MM 3080 Visual Merchandising (MKT)** 3 s.h.
Study of the various facets of visual merchandising, encompassing retail merchandise presentation, displays, store planning, signage, lighting, and fixtures. Discussion of the merchandising and design criteria for point-of-purchase, exhibits, and special promotions. The merchandising and design aspects emphasized.
- MM 3310 History of Costume** 3 s.h.
Study of dress and accessories from ancient times to present day; emphasis on aesthetic, social, political, and economic influences; influence of recurring styles on present fashion.
- MM 3480 Retail Buying (MKT)** 3 s.h.
Merchandising functions of retail buying with emphasis on the varied techniques used for planning, executing, and evaluating merchandise. Prerequisites: CIS 2250 or 2380, MGT 2360, MKT 2440.

MM 3500 Electronic Retailing (MKT) 2 s.h.

Investigates the growing world of the cyber store and the scope of on-line retailing. Examination of the different types of e-tailers: traditional "bricks and mortar" store web sites, shopping service "malls" accessed through Internet service providers, and large-scale on-line auction and off-price retail sites. Goods and service e-tailors, both profit and non-profit, are analyzed. E-tail web consumers and their buying patterns are examined.

MM 3630 Architectural Style and Interior Design (FCS/HMG) 4 s.h.

Basic principles of design and color related to lodging interiors and exteriors; emphasis on planning, selecting, and furnishing environments for both commercial and consumer needs.

MM 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.

MM 3750 Human Shelter and Environment (FCS*) 4 s.h.

MM 4300 Theories and Practices of Merchandising 2 s.h.
Applications of merchandising planning concepts utilizing computer systems. Development of processing tasks using merchandising case studies. Simulation problem solving. Prerequisites: MM 3480, CIS 2380.

MM 4450 Retail Management 2 s.h.

Study of the role of the retail manager, with examination of selected current topical issues. Review of budgetary standards and techniques used for strategic planning. Emphasis placed on critical analysis and decision making. Prerequisites: MM 2400, MGT 2360.

MM 4910 Cooperative Education 1-4 s.h.

Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.

MM 4950 Seminar 2 s.h.

In-depth consideration of controversial issues in a related field; integration and verification of exit-level competencies. *To be taken after at least 30 s.h. in the major.*

Music (MUS)

MUS 1010, 1020, 1030, 1040 Applied Music for the Adult Beginner 2 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.*

MUS 10x0.15 – Voice for the Adult Beginner

MUS 10x0.24 – Organ for the Adult Beginner

MUS 10x0.26 – Violin for the Adult Beginner

MUS 10x0.28 – Guitar for the Adult Beginner

MUS 10x0.31 – Flute for the Adult Beginner

MUS 10x0.41 – Clarinet for the Adult Beginner

MUS 10x0.45 – Cello for the Adult Beginner

MUS 10x0.51 – Trumpet for the Adult Beginner

MUS 1050, 1060, 1070 Piano for the Adult Beginner 2 s.h. each

Basic course with emphasis on fundamental keyboard technique and musicianship. *Credit not applicable to piano performance major nor major applied music electives.*

MUS 1080.3-1080.9 Chorale 1 s.h. each

Study and performance of sacred and secular choral literature; development of a discriminatory taste in music through experience in actual participation.

MUS 1090 Voice Class I 2 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.

MUS 1100 Voice Class II 2 s.h.

Continuation of Voice Class I.

MUS 1110, 1120 Theory I, II 4, 4 s.h.

Aural, visual and written approach to musicianship: sightsinging, melodic and harmonic dictation, four-part writing: triads, sevenths, modulation.

MUS 1150, 1160, 2150, 2160, 3150, 3160, 4150, 4160 Voice 2 s.h. each

Voice placement; vocalization for tone production, intonation, breath control, relaxation, resonance, vowel formation, and study of the consonants; simple songs with English diction suitable to acquired technique; introduction to the Art Song: Italian Art Song, selected arias.

MUS 1210, 1220, 2210, 2220, 3210, 3220, 4210, 4220 Piano 2 s.h. each

Study of keyboard theory, techniques and repertoire designed to meet needs of individual students.

MUS 1240, 1250, 2240, 2250, 3240, 3250, 4240, 4250 Organ 2 s.h. each

Organ technique; application to basic materials; congregational accompaniment; repertoire designed to meet needs of individual students.

MUS 1260, 1270, 2260, 2270, 3260, 3270, 4260, 4270 Violin 2 s.h. each**MUS 1280, 1290, 2280, 2290, 3280, 3290, 4280, 4290 Guitar 2 s.h. each****MUS 1310, 1320, 2310, 2320, 3310, 3320, 4310, 4320 Flute 2 s.h. each****MUS 1360, 1370, 2360, 2370, 3360, 3370, 4360, 4370 Saxophone 2 s.h. each****MUS 1410, 1420, 2410, 2420, 3410, 3420, 4410, 4420 Clarinet 2 s.h. each****MUS 1430, 1440, 2430, 2440, 3430, 3440, 4430, 4440 Viola 2 s.h. each****MUS 1450, 1460, 2450, 2460, 3450, 3460, 4450, 4460 Cello 2 s.h. each****MUS 1470, 1480, 2470, 2480, 3470, 3480, 4470, 4480 Harp 2 s.h. each****MUS 1510, 1520, 2510, 2520, 3510, 3520, 4510, 4520 Trumpet 2 s.h. each****MUS 1560, 1570, 2560, 2570, 3560, 3570, 4560, 4570 Low Brass 2 s.h. each****MUS 1580, 1590, 2580, 2590, 3580, 3590, 4580, 4590 French Horn 2 s.h. each**

- 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.
- MUS 2110, 2120 Theory III, IV** 4, 4 s.h.
Advanced sight singing and dictation; four-part writing; non-harmonic tones, chromatic harmony, modulation, twentieth-century practices.
- MUS 2150, 2160, 3150, 3160, 4150, 4160 Voice** 2 s.h. each
Continuation of 1150, 1160; more advanced repertoire.
- MUS 2610 Lyric Theater** 2 s.h.
The study and performance of music for the stage, chosen from selected monologues and songs from the Broadway, cabaret, and light opera genres.
- 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 3100 Diction** 2 s.h.
The basics of English, Italian, German, and French lyric diction, including the use of the International Phonetic Alphabet. Designed for singers and teachers of singing.
- 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 3620.3-3620.6 Ensemble: Instrumental Chamber Music** 1 s.h. each
Study and performance of duos, trios, quartets and other combinations; open to all students by audition.
- MUS 3630 Instrumental Techniques I** 2 s.h.
Group study of strings; technical differences, capabilities, peculiarities, ranges, bowings, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.
- MUS 3640 Instrumental Techniques II** 2 s.h.
Group study of brass and percussion; technical differences, capabilities, peculiarities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.
- MUS 3650 Instrumental Techniques III** 2 s.h.
Group study of winds: technical differences, capabilities, peculiarities, ranges, etc., sufficient to teach beginning students effectively in groups. Designed for the middle and secondary school teacher.
- MUS 3720.3-3720.9 Orchestra/Band** 1 s.h. each
Rehearsal, membership, and performance in the Livonia Symphony, Plymouth Symphony, or Plymouth Community Band. By audition only.
- MUS 3910, 4910 Music Management Cooperative Education I, II** 2-4 s.h.
Specialized learning experiences related to music management, under supervision of authorized personnel. Prerequisite: approval of advisor.
- MUS 4010 Composition and Arranging** 2 s.h.
Study of musical composition through formal, harmonic, melodic, and rhythmic aspects; history of arranging for instruments and voices, with an emphasis on the application of principles. Prerequisite: four semesters of theory or departmental approval.
- 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.
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 Elementary Level** 2 s.h.
Methods and materials for teaching general music in the classroom, as well as the study of materials and rehearsal techniques for the elementary vocal and instrumental programs.
- MUS 4850 Teaching of Music at the Secondary Level** 2 s.h.
Study of 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.

Natural Science (NSC)

NSC 1250 Health Problems (FCS/NFS) 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 2250 Human Nutrition (FCS/HMG/NSF*) 4 s.h.

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 the University.

NSC 3150 Physical Aspects of Aging (GER*) 3 s.h.

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 Science Foundations I: Chemistry and Life Science (EDU) 4 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. Lecture 3 hours, laboratory 3 hours. Prerequisite: MTH 1040 or equivalent. (For non-science majors.)

NSC 3740 Science Foundations II: Astronomy, Earth Science, and Physics (EDU) 4 s.h.

A continuation of basic science concepts for pre-service 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. (For non-science majors.)

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 3010 Transitions in Professional Nursing 4 s.h.

Concepts of professional nursing in contemporary society which reflect Christian Humanistic values. Critical thinking, communication, and therapeutic intervention strategies are utilized in assisting registered nurses who are making a transition in their academic and professional development. Includes a supervised practicum. Prerequisites: BIO 2260, 2430, 2440; CHM 1610; NFS 2230 or permission of department; PSY 2450; SOC 1010.

NUR 3030 Health Assessment 3 s.h.

Application of an organized approach to obtain an adult comprehensive health assessment (across the life span). Includes a supervised practicum. Prerequisite: admission to the Nursing Major.

NUR 3040 Health Assessment for RN's 2 s.h.

The comprehensive assessment of adult patients and the development of focused assessments as related to specific pathology,

based on a holistic appraisal of the adult patient. Includes a supervised practicum.

NUR 3060 Foundations of Psychosocial Care 2 s.h.

Focuses on foundations of psychosocial care and therapeutic communication in nursing practice with diverse persons (clients) in a variety of settings.

NUR 3220 Introduction to Nursing Therapeutic Interventions 6 s.h.

Focuses on concepts of wellness, health maintenance, and identification of risk factors. Fundamental nursing practices that support optimal human responses and the approaches to providing client care. Includes a supervised practicum. Prerequisites or corequisite: NUR 3030, 3060. Corequisite: NUR 3270.

NUR 3270 Introduction to Professional Nursing Seminar 2 s.h.

The role of the professional nurse in contemporary society is reviewed. Students use critical thinking to integrate fundamental concepts and Christian Humanistic values into nursing practice and their emerging professional roles. Prerequisites: NUR 3030, 3060. Corequisite: NUR 3220.

NUR 3300 Nursing Role in Pharmacologic Management 3 s.h.

Principles of pharmacology and implications for nursing practice. Prerequisites: NUR 3220 and 3270.

NUR 3310 Family Health Promotion Across the Life Span 3 s.h.

Focuses on the application of fundamentals of health promotion nursing care concepts with families within the context of community-based nursing care. Includes a supervised practicum. Prerequisite: NUR 3220, 3270.

NUR 3320 Nursing Therapeutic Interventions 6 s.h.

The development of nursing judgment when providing preventive, restorative, and supportive nursing care to clients with increasingly complex human responses. Includes a supervised practicum. Prerequisite or corequisite: NUR 3300, 3310. Corequisite: NUR 3370.

NUR 3370 Professional Nursing Seminar II 2 s.h.

Professional nursing practice analyzed within the context of Christian Humanism, family and community values. Corequisite: NUR 3320.

NUR 3900 Nursing Research 2 s.h.

Introduction to components of the research process with emphasis on developing the ability to critique/utilize and to participate in research as it applies to professional nursing practice.

NUR 4220 Family and Community Health Nursing Concepts II 4 s.h.

Focuses on the application of critical community health nursing principles and concepts, the use of nursing process in the management of families with complex health responses within the community. Includes a supervised home care and community practicum. Prerequisites: all 3000 level NUR courses. Prerequisite or corequisite: NUR 3900, 4250. Corequisite: NUR 4270.

NUR 4250 Complex Nursing Therapeutic Interventions 6 s.h.

The use of responsible nursing judgment when providing preventive, restorative, and supportive nursing care to clients with multi-faceted human responses. The collaborative role of the nurse is emphasized. Includes a supervised practicum. Prerequisites: all 3000 level NUR courses. Prerequisite or corequisite: NUR 3900.

NUR 4270 Professional Nursing Seminar III 2 s.h.

Synthesizing nursing and related theory and research in examining the professional nursing role within the context of Christian Humanism. The health care system examined as a socio-cultural phe-

nomenon. Prerequisites: all 3000 level NUR courses. Prerequisite or corequisite: NUR 3900, 4250. Corequisite: NUR 4220.

NUR 4730 Nursing Leadership in Organizations and Communities 4 s.h.

Focuses on understanding the various leadership roles, responsibilities, and opportunities for nurses within organizations and communities. Includes the study of theories of leadership, management, health policy, and the financing of the healthcare sector that are applicable to various settings and situations. Includes field practicum activities. Prerequisite: NUR 4220, 4250, 4270.

NUR 4750 Community Health Nursing Roles 2 s.h.

Opportunities for students to work in selected aspects of assessment, planning, implementation, and evaluation of Community Health Nursing interventions for a specific population's health status. Special topics seminars are included. Prerequisites or corequisites: NUR 4730.

NUR 4930 Senior Nursing Practicum 4 s.h.

Clinical practicum focused on the integration and application of therapeutic interventions, nursing judgment, communication, civic engagement, and role development in the practice of professional nursing. Prerequisite or corequisite: NUR 4730, 4750. Corequisite: NUR 4950.

NUR 4950 Senior Seminar in Professional Nursing 2 s.h.

Sociocultural phenomena that affect the process of health and nursing care delivery in a global society. *Must be taken in the student's final semester in the program.*

Nutrition and Food Science (NFS)

NFS 1250 Health Problems (FCS/NSC*) 4 s.h.

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 is discussed.

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 2250 Human Nutrition (FCS/HMG/NSC) 4 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 2260 Introductory Food Science (FCS/HMG) 4 s.h.

Principles and procedures of food selection and preparation based on the factors that cause variation in quality. Laboratory experience in the preparation of selected food products. Lecture 3 hours, laboratory 3 hours.

NFS 2380 Maternal and Child Nutrition 3 s.h.

Study of normal growth patterns from conception to adulthood and the principles involved in meeting maternal, infant, child, adolescent nutritional needs at home or in agencies concerned with child care or education.

NFS 2420 Nutrition for the Aging (GER) 3 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 2550 Consumer Behavior (MKT*/HMG/MM) 3 s.h.

NFS 2760 Food Service Sanitation (HMG) 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.

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 3250 Clinical Nutrition I 4 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: NFS 2250, BIO 2240.

NFS 3260 Advanced Food Science 4 s.h.

Principles involved in food quality, spoilage and preservation, control of foodborne illnesses. Managerial and manipulative techniques involved in formal demonstrations for teaching or promotional work. The experimental method applied in development and evaluation of selected food items. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 1610 or 2210, NFS 2260.

NFS 3360 Lodging Management I (HMG*) 3 s.h.

NFS 3380 Methods in Nutrition Education 3 s.h.

Specialized approach for teaching nutrition principles to children of various age levels and to adults of various personal or professional interests. Development of instructional aids and teaching units. Prerequisite: NFS 2250.

NFS 3460 Food Service Management I (HMG) 3 s.h.

Purchasing standards, buying procedures, storage principles, and factors affecting quality, efficiency, and economy in quantity food production and service. Laboratory experience related to quantity food preparation and service. Safety and efficiency in the use and care of specialized equipment. Lecture 2 hours, laboratory 3 hours. Prerequisites: MGT 2360, NFS 2260.

NFS 3660 Market Field Study (HMG*) 2 s.h.

NFS 3910 Cooperative Education 1-4 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 4250 Advanced Human Nutrition 4 s.h.

Biochemical principles involved in the metabolism of specific nutrients. Problems in applying this knowledge to particular topics in nutrition. Prerequisites: CHM 3610, BIO 2240, NFS 2250.

NFS 4360 Lodging Management II (HMG*) 2 s.h.

NFS 4380 Community Nutrition 2 s.h.

Social, economic, and political aspects of public health in relation to food and nutrition; problems and programs affecting vulnerable groups such as the poor, the aged, the handicapped, pregnant teenagers, infants. Lecture and supervised practice in community setting. Prerequisite: NFS 2250.

NFS 4420 Clinical Nutrition II 2 s.h.

Interpretation of laboratory data for nutritional screening and assessment. Calculations for tube feedings and total parenteral nutrition. Prerequisites: CHM 3610, NFS 3250.

NFS 4460 Food Service Management II (HMG) 3 s.h.

Principles of management applied to food service systems; physical facilities planning; sanitation and safety standards; organization and leadership; personnel management and cost control. Prerequisites: NFS 2260, MGT 2360.

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.

Evaluation of nutrition-related legal, ethical, and research-related issues. Discussions of health care policy, delivery, and reimbursement issues. Presentation of public policy position and a critique of current research. Prerequisite: senior status.

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 (FS) 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 (FS) 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. Application 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 3280 Fire and Arson Investigation (FS*) 3 s.h.

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 environmental pollution, concepts of industrial hygiene; hazard evaluation, and elimination of related problems. Prerequisites: CHM 1110, BIO 2240 or 2430 and 2440 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 (FS) 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 (FS) 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, BIO 2240 or 2430 and 2440 or NSC 1250.

OSH 4280 Fire and Arson Investigative Techniques (FS*) 3 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 (FS) 3 s.h.

Identification, storage, handling, disposal, and products of combustion of hazardous materials, including flammables, explosives, oxidizing, and corrosive materials; sources of technical assistance available to aid in making tactical decisions. Prerequisite: CHM 1110 or equivalent.

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, 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.

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.

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 1 s.h.

Introduction to the basic concepts for performing legal research on WESTLAW, LEXIS and CD-ROM products. Demonstration and use of State and Federal legal materials covered. Prerequisites: LAW 1010 and CIS 2250 or 2380 or equivalent.

LAW 2560 Legal Research on the Internet 2 s.h.

Introduction to the basic concepts for performing legal and factual research on the Internet for use in legal applications. Federal legal research as well as factual research, such as locating individuals and businesses, obtaining records, and accessing websites. Prerequisites: LAW 1010 and CIS 2250 or 2380 or equivalent.

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 3050 Criminal Procedures (CJ*) 3 s.h.

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. Prerequisite: LAW 1010, 2570.

LAW 3450 Business Associations 3 s.h.

Pre-incorporation and incorporation procedures, directors' meetings, stockholders' meetings, public sales of securities, foreign jurisdictions, amending Articles of Incorporation and By-laws, 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 3670 Law Office Economics and Technology 3 s.h.

Law firm utilization of computers and specialized legal software to achieve the economic practice of law. Prerequisite: CIS 2250 or 2380 or equivalent.

LAW 3700 Legal Issues for Older Adults (GER*) 2 s.h.

LAW 3810 American Civil Rights Movement (HIS*) 3 s.h.

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 3870 Will and Trust Drafting 2 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 4050 Constitutional Law (CJ*/PSC) 3 s.h.

LAW 4100 Special Problems in Law 1-3 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 is covered.

LAW 4240 Tort Reform 1 s.h.

A course in personal injury and public policy. An examination and evaluation of recent legislation limiting damage rewards. Prerequisite: LAW 1010.

LAW 4250 Health Care Law and Public Policy (AHA*) 3 s.h.

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 statements, closing statements, and jury instructions are covered. Prerequisite: LAW 1010.

LAW 4580 Alternative Dispute Resolution 2 s.h.

An advanced course in the pre-trial litigation process. Drafting of a concise summary of a party's factual and legal position on issues presented in an actual case. Mock presentation to an ADR panel. Prerequisite: LAW 1010.

LAW 4950 Legal Seminar and Practicum/Cooperative Education 4-6 s.h.

In-service training, demonstration of professional paralegal skills in an employment situation, self-assessment, evaluation of personal and program curriculum, strategy for continuing legal education. Practicum placement to be arranged by student. Permission of instructor required. Prerequisite: completion of 24 s.h. of LAW classes.



Philosophy (PHL)

PHL 1010 Introduction to Philosophy 3 s.h.

A study of the meaning of philosophy, basic philosophical concepts, terminology, methods, problems, systems, and schools. Core requirement for Pastoral Ministry majors and minors. Requirement for Religious Studies majors and minors.

PHL 1050 Philosophy of Person 3 s.h.

An analysis of human experience and nature found through examination of the questions about the nature of reality, knowledge, values, freedom, and destiny. *(Recommended for students interested in the human sciences and psychology.)*

PHL 1060 The Philosophical Quest (ICC) 4 s.h.

Introduces the student to the pursuit of wisdom, with an emphasis on the problem of faith and reason and the relationship of philosophy to the rest of human knowledge. Concepts and issues to be studied include nature, causality, purpose, and knowledge. The differences among ancient, medieval, and modern philosophy covered as a philosophical issue.

PHL 1550 Inquiry Into Values (RST) 3 s.h.

An inquiry into the fundamental Christian philosophical values which form the foundation of Western civilization as reflected in the writings of Augustine and Aquinas. *(Recommended for students interested in religious studies.)*

PHL 2010 Logic 3 s.h.

A study of the three acts of the mind: understanding, judgment, and reasoning. Both inductive and deductive reasoning are studied and practiced. The traditional syllogism and the basics of symbolic logic are covered. Course includes a study of informal fallacies.

PHL 2060 Philosophy of the Human Person (ICC) 3 s.h.

Examination of the problem of human nature, addressing the issue of the soul and its various powers. Exploration of the human condition through an analysis of such experiences as knowing, valuing, choosing, sexuality, and love as basic acts of the human person.

PHL 2210 Person and Society 3 s.h.

A study of political philosophy as conceived by the classic Greek philosophers leading up to a consideration of the philosophical supports of our American Republic. *(Recommended for students interested in history, political science, and business.)*

PHL 2260 Introduction to Political Theory and Catholic Social Thought (ICC/THL) 4 s.h.

Introduction to the basic concepts of political thought in the Western tradition, beginning with ancient Greece and Rome, continuing through medieval thinkers and early modern thought, and including political thought of the nineteenth century. Illustration of how papal political thought furnishes a Catholic intellectual response to liberal, socialist, and nationalist political thought. The course illustrates the more than two-thousand-year long dialogue between faith and reason in this area.

PHL 2990 Principles of Catholic Social Doctrine (THL*) 3 s.h.

PHL 3060 Philosophy of God (ICC) 3 s.h.

A study of the proofs and evidences for the existence of God and of the attributes of God. The role of analogy in religious language is examined, as well as the relation of the human person to God, and the question of immortality and human destiny; a special consideration is given to modern challenges to belief in God, such as positivism, anthropocentric humanism, consumerism, and totalitarianism. Prerequisite: ICC 1060.

PHL 3150 Existentialism 3 s.h.

A study of the major themes of the philosophical approach of existential phenomenology which forms the intellectual foundation of much of modern thought and literature. *(Recommended for students interested in art, music, and literary criticism.)*

PHL 3210 Philosophy of Beauty 3 s.h.

A 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. *(Recommended for students interested in art, music, and literary criticism.)*

PHL 3310 Philosophy of Science 3 s.h.

A 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. *(Recommended for students interested in science and math.)*

PHL 3550 Aesthetics 3 s.h.

A systematic survey of aesthetics using philosophical sources from Plato to the present day. Consideration of aesthetic problems as reflected in literature, film, theater, and fine arts. Concepts of beauty in nature and in art, artistic creation, the aesthetic response, and art criticism.

PHL 3650 Philosophy of Knowledge 3 s.h.

An examination of the philosophical problems connected with the questions of how human beings know what they know, and how they know whether that knowledge is true or not. *(Recommended for students interested in psychology.)*

PHL 3710 Ancient and Medieval Philosophy 3 s.h.

An examination of the principal philosophies from the Pre-Socratics to the later Scholastic period. Emphasis is placed on an introduction to the basic ideas of Plato, Aristotle, Augustine, and Aquinas.

PHL 3720 Modern and Contemporary Philosophy 3 s.h.

A historical overview of the main lines of modern and contemporary thought from Descartes to Sartre. The focus is on the theories of some pivotal figures from the early rationalist and empirical schools and the later pragmatist and existentialist current.

PHL 4040 Metaphysics (THL) 3 s.h.

A study of the very foundation of philosophy, the science of "being", with concentration on the realities of God, the person, and nature, as treated by various systems. Prerequisite: PHL 1060.

PHL 4060 Ethics (ICC) 3 s.h.

Analyses of the human act, of happiness, of objective and subjective morality, of the natural law, and of conscience. Special emphasis is given to the study of ethics as based upon rational conclusions.

PHL 4080 Moral Issues in Business (HUM/RST*) 3 s.h.

(Recommended for students interested in business.)

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 gerontology.)

PHL 4150 Philosophy of Religion (RST) 3 s.h.

Study of the relationship between philosophy and religion by highlighting philosophy's role in the inquiry into the validity, value, and meaning of man's concern with the existence and nature of the Ultimate Reality: God. *(Recommended for students interested in the liberal arts.)*

PHL 4230 Survey of World Views and Value Systems (RST) 3 s.h.

The 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; with discussion of some of the solutions to metaphysical problems that have been proposed throughout the course of human history. Prerequisite: any other philosophy course or permission of the instructor.

PHL 4240 Thomas Aquinas 3 s.h.

A study of the writings of Thomas Aquinas, principally the *Summa Theologiae*, to gain an understanding of his positions on key issues of metaphysics, God, human nature, morality. Attention given to philosophical context, to *Summa* form, and to logic.

PHL 4950 Senior Seminar with Thesis 3 s.h.

Students consider a philosophical issue, along with issues related to it, and write a lengthy essay rooted in at least one major philosophical text. Prerequisite: Senior standing; permission of instructor and department chair.

Physical Education (PED)

PED 1710 Introduction to Hatha Yoga 2 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 2000 History and Principles of Physical Education 3 s.h.

Survey of the history and principles of Physical Education and how they relate to individuals with diverse needs and cultural values. Emphasis is placed on the promotion of life-long health and happiness through physical activity. Students learn strategies for planning instruction and organizing physical activities within the context of the K-12 schools. Prerequisite: ENG 1010 and ENG 1020 or equivalent.

PED 2150 Health and Wellness 3 s.h.

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 2000 and BIO 2240.

PED 2350 Kinesiology 3 s.h.

Lecture course covering the principles of human motion based on the anatomical and mechanical analysis of the skeletal and muscular systems, including functional joint classification and muscle actions as prime movers, assistors, and stabilizers. Prerequisite: BIO 2240.

PED 3250 Motor Development 2 s.h.

Survey of motor development issues as they relate to self expression, development, and learning. Emphasis is placed on basic principles of physical, cognitive, social, and emotional development with attention to individual differences. Students learn strategies assessing motor skill development and planning and implementing motor skill development activities. Issues of safety are also addressed. Prerequisites : PED 2000 and BIO 2240.

PED 3350 Adapted Physical Education 3 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 2000 and BIO 2240.

PED 4500 Curriculum and Instruction in Physical Education 3 s.h.

An in depth study of curriculum development with emphasis on K-12 Physical Education. 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 2000, admission to Teacher Education Program or permission of instructor.

PED 4550 Theory and Techniques of Teaching Physical Education 3 s.h.

The theory of instruction, methods, and materials for providing physical education for K-12 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 classrooms procedures, participation in simulation, and teaching provide background for physical education programs in which students are expected to teach. Students participate in both lecture and laboratory experiences. Prerequisite PED 2000; admission to Teacher Education Program or permission of instructor.

Physics (PHY)

PHY 2530 General Physics I 4 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 1060, or 1210, or the equivalent; or departmental approval. (Offered Term I.)

PHY 2540 General Physics II 4 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 1060, or 1210, or the equivalent; or departmental approval. (Offered Term II.)

PHY 2710 Fundamental Electronics 4 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 or departmental approval.

PHY 3510 Modern Physics: Atomic and Nuclear 4 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 or departmental approval.

PHY 4510 Electronics: Digital Techniques 4 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. Lecture 3 hours, laboratory 3 hours. Prerequisite: PHY 2540 or equivalent; PHY 2710 recommended.

Polish Studies (POL)

POL 1000 Introduction to Poland 3 s. h.

A survey and study of the historical, intellectual, cultural, socio-political, and religious dimensions of the Polish legacy.

POL 1010 Elementary Polish I 3 s. h.

An audio-visual, communicative presentation of modern Polish with focus on conversational skills. The basic points of Polish

grammar are covered. Upon completion of the course, students are able to communicate in the following communicative situations: greetings and farewells, identification of people, speaking languages, identification of objects and their location, and visiting restaurants and hotels.

POL 1020 Elementary Polish II 3 s. h.

Continuation of POL 1010. An audio-visual, communicative presentation of modern Polish with focus on conversational skills. The basic points of Polish grammar are covered. Upon completion of the course, students are able to communicate in the following communicative situations: expressing address and location, shopping and using services, entertainment, visiting a doctor office, and traveling. Prerequisites: POL 1010.

POL 1030 Life and Roots of John Paul II (ICC) 3 s. h.

A presentation of the historical, cultural, and social roots of John Paul II, the pope of "an Eastern heart and Western mind," which intellectually and psychologically shaped him and his teaching, and contributed to the universality of his message.

POL 1100 Polish Folk Culture in Dance and Song 1-6 s. h.

An intensive study in music, dance and costuming in Polish culture. It includes participation in the College performing group. This course can be taken up to six times.

POL 2000 Understanding Cultures of East/Central Europe 3 s. h.

An interdisciplinary introduction to East/Central European civilizations, with focus on cultural patterns and habits. Topics include, among others, language and gestures, family life, religion, education, food, leisure time, and value systems.

POL 2010 Intermediate Polish I 3 s. h.

Continuation of the POL 1020 with more advanced study of grammar. Focus on writing and reading skills. Prerequisite: POL 1020 or equivalent skills.

POL 2020 Intermediate Polish II 3 s. h.

A continuation of the POL 2010 with more advanced study of reading, writing, and speaking. Prerequisite: POL 1020 or equivalent skills.

POL 2150 History of Eastern European Art (AHIS) 3 s. h.

An introduction to the richness of Slavic art, its common themes, and distinctive differences. One of the objectives of this course is to increase awareness and appreciation of the students' own unique heritage.

POL 2220 Cinema of Former Czechoslovakia and Yugoslavia (HUM) 3 s. h.

Selected topics from East/Central European history, civilization, and literature, illustrated by films. Focus is on modern times, and especially on the turbulent and sometimes tragic experiences of the recent decades.

POL 2240 Selected Topics in Polish Studies 3 s. h.

Studies in depth of a chosen element of Polish Studies, e.g., specific historical or literary periods, or works of a particular artist.

POL 2300 Russia through Russian Films (HUM) 3 s. h.

A survey of Russian history, mainly in 19th and 20th century, illustrated by films. Topics include life in pre-Soviet Russia, the birth of communism, crimes of Stalinism, WWII, and life after communism. Films of the greatest Russian directors are presented.

POL 2400 Masterpieces of Polish Modern Literature (ENG) 3 s. h.

A survey of the postwar and post-Communist Polish literature in English translation. Literature is presented with a background of Polish history and civilization as an important factor in the Polish way toward independence. Prerequisite: ENG 1020.

POL 3000 The History of East/Central Europe (HIS) 3 s. h.

The history of the Poles, Czechs, Slovaks, Hungarians, Balts, and surrounding peoples from the Middle Ages to the present. Topics include the relations of the region with Western Europe, comparative politics and societies, religion, political values, high culture, ideologies, identity, and nationality. Prerequisite: one of the following: POL 1000, HIS 1080, 2450, 3300, or 3330, or permission of instructor.

POL 3010 Advanced Polish I 3 s. h.

A continuation of the POL 2020. Intense practice in speaking, writing, and reading Polish on an advanced level. Prerequisite: POL 2020 or equivalent skills.

POL 3020 Advanced Polish II 3 s. h.

A final sequence of Polish language classes, the continuation of POL 3010. Summarization and wrapping of theoretical and practical skills. Advanced review of grammar and abilities in speaking, writing and reading, and listening with comprehension of Polish on an advanced level. Prerequisite: POL 3010 or equivalent skills.

POL 3110 Communism: Its Rise, Disgrace, and Fall 3 s. h.

An interdisciplinary presentation of the history of communism, one of the deadliest totalitarian ideologies in the history of the world.

POL 3210 After Communism: Democracy in the Making 3 s. h.

An interdisciplinary introduction to the East/Central European and Russian history of the present. Topics include the fall of communism, transformation into a multi-party system and free market economy, the agony of Yugoslavia, social discontent with capitalist economic policies, and the new situation of Russia after September 11, 2001.

POL 3240 Selected Topics in Polish Studies 3 s. h.

Studies in depth of the chosen element of Polish Studies, e.g., a specific historical or literary period, or works of a particular artist.

POL 3340 History and Appreciation of Polish Art (AHIS) 3 s. h.

A survey of Polish art from the pre-Christian era to the present day presented on a background of European art.

POL 3330 Poland through Polish Film (HUM) 3 s. h.

Selected topics from Polish history, civilization, and literature illustrated by film. Discussion of film art in general, the "Polish School" in world film history, and the transformation of literature into film.

POL 3360 Films of Krzysztof Kieslowski (HUM) 3 s. h.

Illustration of the basic philosophical and ethical questions characteristic of the modern man within the context of Polish history, through selected films of Krzysztof Kieslowski, one of the most important European filmmakers.

POL 3400 Shrinking Hope: the Poetry of W. Szymborska (ENG) 3 s. h.

Intensive study of the Polish Nobel-list's reasonable, skeptical, and ironic poetry in English translation, that questions our inclination to believe that to be human sounds so proud. Prerequisite: ENG 1020.

POL 3500 Against Nothingness: the Poetry of C. Milosz (ENG) 3 s. h.

Intensive study of the writings of Polish Nobel-list, Czeslaw Milosz, in English translation. In hundreds of poems he has published since 1931, the author included the moving account of the hopes and tragedies of the 20th century. Prerequisite: ENG 1020.

POL 3510 Polish History to 1795 (HIS) 3 s. h.

A survey of the history of the Polish state from its origin to its dismemberment and absorption by foreign powers in 1795, the Third Partition. Prerequisite: POL 1000.

POL 3520 Polish History since 1795 (HIS) 3 s. h.

A survey of the history of the Polish state from the Third Partition, through its renaissance as a state in 1918, until World War II. Prerequisite: POL 1000

POL 3700 The Faces of Evil in the 20th Century (HUM) 3 s. h.

The history and the nature of the deadly ideologies that were haunting 20th century Europe, communism, fascism, and tribal nationalism, illustrated by literary works and films. The course has an interdisciplinary character and takes into account, among other disciplines, history, sociology, and psychology.

POL 4010 Studies in Polish Grammar 3 s. h.

A study in Polish morphology, syntax, semantics, and pragmatics. Prerequisite: POL 3020.

POL 4020 Translation into English 3 s. h.

Translation from Polish into English of a wide variety of materials that range from commercial and technical to literary. Prerequisite: POL 4010 or high school diploma from Poland.

POL 4030 Translation into Polish 3 s. h.

Translation from English into Polish of a wide variety of materials that range from commercial and technical to literary. Prerequisite: POL 4010 or a high school diploma from Poland.

POL 4300 Life and Death in Modern Polish Poetry (ENG) 3 s. h.

Studies in Polish modern poetry in translation. The course presents poems by the leading Polish poets, including the Nobelists, who have explored the experience of the Poles in the twentieth century from the societal and individual perspective. Prerequisite: ENG 1020.

POL 4510 The Polish Americans 3 s. h.

A socio-historical perspective on the origin and evolution of the Polish ethnic community in the United States. The Poles are also considered as a case study in American group life. Prerequisite: POL 1000.

POL 4200, 4600 Independent Studies 1-3 s. h.

Individual studies in depth of a chosen element of Polish studies, i.e. specific historical or literary periods, or works of a particular artist, mentored by an instructor.

Political Science (PSC)

PSC 1010 World Problems (HIS*) 3 s.h.

PSC 2350 American Judicial Process (CJ*) 3 s.h.

PSC 2510 American Government 4 s.h.

Study of American political structure to include the organization, power, functions and services of national, state and local government and their interdependence in seeking solutions to contemporary social, economic, and political issues.

PSC 3010 International Relations 4 s.h.

Analysis of world politics, sources of foreign policy, dynamics of the existing international system, systematic theorizing about future developments.

PSC 3100 Introduction to Public Administration 4 s.h.

Governmental structure and administrative organization with special attention to policy formulation, personnel administration, supervision, coordination, administrative control.

PSC 3210 Comparative Politics 4 s.h.

Comparative analysis of political phenomena, emphasizing the interplay of governmental institutions, social-economic-cultural configurations, and patterns of values and ideologies.

PSC 4050 Constitutional Law (CJ*/LAW) 3 s.h.

PSC 4510 State and Local Government 4 s.h.

Analysis of state and local governments, local political forces, trends in metropolitan and suburban politics, problems in planning in an age of urbanization and governmental relations.

PSC 4630 Emerging Nations (HIS*) 3 s.h.

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.

PSY 1030 Tools for Success in Psychology 1 s.h.

For psychology majors and individuals considering a 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 1020.

PSY 2010 Introduction to Alzheimer's Disease and Other Dementia (GER*) 1 s.h.

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 2700 Child Psychology 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 applications, 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 2830 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, PSY 1020 and PSY 1030.

PSY 2840 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 2830 or permission of instructor, and MTH 1040 or equivalent. Recommended prerequisite: MTH 2350.

PSY 3010 Current Topics in Psychology 1 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 3070 Psychology of Aging (GER*) 3 s.h.

PSY 3130 Adolescent Psychology (FCS) 4 s.h.

Nature of pre-adolescent and adolescent behavior and its underlying dynamics; systematic study of modern concepts for understanding and dealing with the 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 3310 Understanding the Challenging Child:
An Introduction to Emotional Disorders
in Children 1 s.h.**

A targeted introduction to selected areas of child psychopathology through the presentation of some of the most common childhood behavioral and emotional disorders, including hyperactivity, depression, anxiety, and conduct disorders. Psychological, familial, and temperamental contributions to disorders. Treatment approaches also described.

PSY 3320 Psychology and the Law 1 s.h.

Introduction to the basic issues and controversies at the intersection of psychology and law, including civil matters (issues of child custody, involuntary commitment to psychiatric hospitals, and the rights of patients in mental health treatment) and criminal matters (crime investigations, prosecution, and sentencing).

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 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 Components of Hospice Care (HSP*) 3 s.h.

PSY 3490 Psychology of Traumatic Experiences 1 s.h.

The immediate and long term psychological effects of such traumatic events as abuse, accident, assault, crime, disaster, homi-

cide, and suicide. The reactions of victims, witnesses, and survivors. Issues relevant to helping and healing in the aftermath of trauma are discussed. Prerequisite: PSY 1010.

PSY 3520 Industrial/Organizational Psychology 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 3660 Social Psychology: A Psychological Perspective 4 s.h.

The influence of social factors on human behavior, including social cognition, attitude formation, social influence, interpersonal attraction, prosocial behavior, aggression, and prejudice. Focus on the individual, and on use of the experimental method. 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, issues in psychological assessment, 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/FOR) 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. Prerequisite: PSY 1010 and PSY 3420.

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 4500 Physiological Psychology (BIO) 3 s.h.

Ways in which behavior is influenced by physiological processes within the body and by the evolution of the species. Study of the nervous system; sensory and motor systems; biological mechanisms influencing daily activity rhythms, motivation, emotion, learning, gen-

der identity. Normal and abnormal brain functioning. Prerequisites: PSY 1010 and BIO 2240 or BIO 2430.

PSY 4700, 4710 Mental Health Field Placement and Seminar I, II 5, 5 s.h.

An 8-hour-per-week intensive field placement experience in a clinical setting, to develop students' clinical interaction skills and prepare them for jobs in the mental health field. Includes a weekly, three-hour seminar which augments supervision provided at the placement sites and provides additional support for students: developing the ability to understand clinical material, documenting interactions, presenting clinical observations, and preparing case reports and assessments. Prerequisites: PSY 4700 requires PSY 3720 pre- or co-requisite and permission of the instructor. PSY 4710 requires PSY 4700.

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, and 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 2840.

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 Leadership (QOM)

QOM 3210 Production and Operations Management 3 s.h.

Analysis of operations and production management from the perspective of how the production system evolves and operates; includes such topics as designing production and service facilities, production and inventory planning, and controlling systems. Prerequisites: CIS 2380, MGT 2360, and QS 3550.

QOM 3560 Teaming 3 s.h.

To study the concepts and practice the skills for functioning and leading as family teams, cross-functional teams, task forces, and ad hoc teams for continuous improvement. Focus on goals, roles, communication, problem solving, decision making, planning, conflict management, innovation, and facilitating meetings.

QOM 3630 Materials and Purchasing Management 3 s.h.

Relationship and coordination of purchasing to other business functions. Includes qualitative and quantitative procedures for determining need, selection of sources, storage of materials. Prerequisites: MGT 2360; MTH 2350 or QS 3550.

QOM 3750 Managing for Quality and Customer Satisfaction — Manufacturing/Assembly 3 s.h.

To study and apply the practices for planning, scheduling, and controlling the inputs and outputs of a manufacturing/assembly system; focus on quality operating system design and implementation, manufacturing/assembly planning of production, and capacity; material requirements planning, master production scheduling, planning the manufacturing/assembly facility, capacity control, maintenance systems.

QOM 3760 Managing for Quality and Customer Satisfaction — Service 3 s.h.

To study and apply the practices for planning, scheduling, and controlling the inputs and outputs of a service production system; focus on quality operating system design and implementation, process, and capacity decisions, material requirements planning, planning the service facility, supplier assessment, maintenance systems.

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, flow-charting, 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 3550.

Quantitative Systems (QS)

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: CIS 2380, MTH 2350, and junior standing.

QS 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 3020, MGT 3100, and QS 3550.

QS 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 2550, MKT 3680, and QS 3550.

Radiography (RT)

RT 1100 Radiography I 8 s.h.

Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 1150 Radiography II 8 s.h.

Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 1500 Radiography III 8 s.h.

Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 2000 Radiography IV 8 s.h.

Clinical practice in JRCERT radiographic technology/nuclear medicine program. Prerequisite: departmental approval.

RT 2940 Internship I 1-6 s.h.

Supervised advanced clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.

RT 3940 Internship II 1-6 s.h.
Supervised advanced clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.

Radiography (RTE)

RTE 1100 Introduction to Radiography 5 s.h.
Medical terminology, nursing arts, safety, digital techniques, and techniques. *Course number used with Prior Learning evaluation.*

RTE 1150 Principles of Radiographic Exposure 5 s.h.
Study of principles of radiographic exposure, factors affecting radiography quality, with a correlation to X-ray techniques as applied in the radiographic suite. *Course number used with Prior Learning evaluation.*

RTE 1500 Radiobiology 5 s.h.
Structure and function of the human body; special emphasis on skeletal anatomy with integration of topographic anatomy and radiographic appearance. *Course number used with Prior Learning evaluation.*

RTE 2000 Radiographic Positioning 5 s.h.
Study and demonstration of standard and special radiographic positioning and topographic anatomy. *Course number used with Prior Learning evaluation.*

RTE 2500 Radiologic Physics 5 s.h.
Electricity, radiation, production of X-rays, and theory of ionizing radiation. *Course number used with Prior Learning evaluation.*

RTE 3000 Clinical Practicum 7 s.h.
Supervised practical experience in radiographic examination with periodic evaluation of radiographs produced. *Course number used with Prior Learning evaluation.*

Religious Studies (RST)

RST 1330 Survey of Christianity 3 s.h.
A survey approach to Christianity, its origins, teachings, customs, and rituals as well as its historical highlights and impact on world beliefs. *Not accepted for Religious Studies or Pastoral Ministry majors/minors requirement.*

RST 1450 Survey of Western Religions 3 s.h.
Anthropology of Western religions through a study of Judaism, Christianity, and Islam, their historical backgrounds, religious beliefs, liturgies, customs, and values.

RST 1460 Survey of Eastern Religions 3 s.h.
A study of Hinduism, Buddhism, Confucianism, and Taoism; their meanings, values, and impact on the course of religious thought and historical development.

RST 1550 Inquiry Into Values (PHL*) 3 s.h.

RST 2240 Theology of Ministry 2 s.h.
Background study of the theology, history, and development of the Christian concept of "ministry" or service in the light of contemporary developments. Application to various spheres of ministry based on areas of ministry represented by members of the class. *Required for Pastoral Ministry majors and minors.*

RST 2560 Old Testament: Torah and Historical Writings 3 s.h.

A scholarly study of the Hebrew Scriptures: Torah (Genesis through Deuteronomy) and the historical books (Joshua through 2 Kings). *Required for Religious Studies and Pastoral Ministry majors and minors.*

RST 2570 Old Testament: Prophets, Wisdom, and Apocalyptic Writings 3 s.h.

A study of major and minor prophets, Wisdom Literature, and the emergence of Apocalyptic Literature in the book of Daniel. *Required for Religious Studies majors and minors.*

RST 2580 New Testament: The Four Gospels 3 s.h.
A critical treatment of religious and political conditions of the first century A.D., of the Gospels and the distinctive approaches of the four evangelists to the life, message, death, and resurrection of Jesus Christ. *Required for Religious Studies and Pastoral Ministry majors and minors.*

RST 2590 New Testament: Acts, Epistles, and Revelation 3 s.h.

A specialized treatment of the development of the Christian Church in the first century A.D., the epistles that reflect its unique needs, and a systematic study of the background, symbolism, and impact of the Book of Revelation. *Required for Religious Studies majors and minors.*

RST 2670 Epistles of St. Paul 3 s.h.
Paul of Tarsus, apostle, evangelist, reformer: his life-impact on Christianity to the present time.

RST 3050 The Idea of Justice (HUM*) 4 s.h.

RST 3100 Franciscan Values, Social Justice, and Service 3 s.h.
A study of the life and legacy of Francis of Assisi, and its implication for current efforts aimed at building healthy communities. Contemporary dilemmas viewed through the lens of Franciscan thought and tradition (e.g., social justice, universal brotherhood, moral utilization of Earth's resources, and concern for the needy). Focus upon the contemporary concept of "interrelatedness" and its parallels with Franciscan moral theology. Service learning based course.

RST 3150 Spirituality 3 s.h.
Study of theories of personality and life's journey as related to the quest for spiritual growth and wholeness. Approaches to Christian understandings of the interrelationship of God and His people and the role of spiritual direction applied to one's personal and professional experience. *Required for Pastoral Ministry majors.*

RST 3400 Jesus Across the Millennia 3 s.h.
A scriptural, historical, and theological investigation into the questions, Who is Jesus? What has His impact been on history and on the lives of persons who proclaim Him Son of God, Messiah, and Savior, et al.?

RST 3450 Catholicism 3 s.h.
Study of the doctrines, practices, and persons formed by and reflective of the Catholic Tradition in history and the Vatican II ecumenical experience.

RST 3470 The Sacraments 3 s.h.
Survey of the seven sacraments in the Catholic Tradition, with an emphasis on recent developments as they evolved from history, theology, and practice.

RST 3490 Christian Worship 2 s.h.
An overview of the origins, development, and cultural aspects of Christian worship rooted in symbols, myths, and rituals. Students are assisted in developing various forms of worship services appropriate to their Christian traditions and their ministries. *Required for Pastoral Ministry majors.*

RST 3500 Spiritual and Ethical Considerations in Hospice Care (HSP*) 3 s.h.

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 2 s.h.

A presentation of spiritual-psychological foundations of pastoral counseling, an investigation of skills and techniques for this special type of counseling, and analysis of typical cases encountered by one involved in pastoral ministry. *Required for Pastoral Ministry majors and minors.*

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.

A 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.

An academic study of contemporary moral issues relative to modern health care, life science, and future issues in the light of Judeo-Christian convictions. Prerequisite: junior or senior status.

RST 4140 Life/Death Issues 4 s.h.

An intensive study of the many deaths one must encounter before arriving at the final stage. Practical, theoretical, social, psychological, and spiritual dimensions of life/death situations, culminating in the development of a personal life journal. Prerequisite: junior or senior status.

RST 4150 Philosophy of Religion (PHL*) 3 s.h.**RST 4170 Church Music (MUS*) 2 s.h.****RST 4220 Christian Awareness 3 s.h.**

A study of the New Testament challenge to wholeness based on the command to love God, self, and others. Contemporary helps and hindrances to that quest examined in the light of ecumenical developments.

RST 4230 Survey of World Views and Value Systems (PHL*) 3 s.h.**RST 4280 Church Law 2 s.h.**

A study of various Christian organizations in the light of policy, rule, traditions, regulations, and procedures as they impact on the work of the Pastoral Minister. *Required for Pastoral Ministry majors.*

RST 4290 Christian Classics 3 s.h.

A specialized study of classical and contemporary works by outstanding Christian scholars. Students design and present a concluding work in which the classics are applied to contemporary life. *Required for Religious Studies and Pastoral Ministry majors.*

RST 4720 Church Leadership 3 s.h.

The history, theories, practices, and techniques of church-related management; specifically designed for the pastoral minister. *Required for Pastoral Ministry and Religious Studies majors.*

RST 4830 Sharing Your Faith 3 s.h.

Psycho-theological examination of principles of faith-related service through the application of Gospel directives, as related to students' academic fields of expertise. *Required for Religious Studies and Pastoral Ministry majors.*

Sacred Theology (THL)

Sacred Theology courses are taught at the Orchard Lake Center location.

THL 1500 Introduction to Catholic Theology (ICC) 3 s.h.

An in-depth survey of the Catholic Faith covering such basic elements as the founding of the Church, the nature of the Church as an historical community, the Church as the covenant of God, the Church in relation to Christ, the sacraments with special emphasis on the Eucharist, the relation of Scripture to the believing Catholic, the four marks of the Church, and the covenantal order of Salvation. Additional focus on the major religious distinctions between Catholicism and Protestantism and on topics from the Catholic moral tradition, particularly sin, conscience, and virtue.

THL 2020 Christian Ethics 3 s.h.

A study of moral and ethical issues and the implication of human acts from a Christian perspective, including several issues within the field of medicine and bio-ethics, military ethics, and business ethics. Study of ethical schools of thought. Issues are examined in light of the Christian meaning of the person and human community.

THL 2150 History of the Catholic Church (ICC) 3 s.h.

An examination of the history of the Catholic 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.

THL 2260 Introduction to Political Theory and Catholic Social Thought (ICC/PHL*) 4 s.h.**THL 2510 Revelation and Sacred Scripture (ICC) 3 s.h.**

Introductory theology course focusing on the revelation of God to Israel and the Church. Hebrew ideas contrasted to ancient pagan views, the revelation of God to persons in the Old Testament, the New Testament and Christianity as the fulfillment of Old Testament expectations, the relationship of the Bible to the Church, and the person of Christ as the final and fullest Revelation of God to humankind.

THL 2850 Old Testament 3 s.h.

An introductory course on the Hebrew Scriptures: the various literary traditions that comprise the Old Testament, Hebrew theology of the covenant, history, and humanity's relationship with God in terms of election, sin, and redemption. Primary focus on the first five books of the Old Testament, the Davidic kingship, and the major prophets.

THL 2900 New Testament 3 s.h.

Basic overview of the scriptures of the Christian religion: the four Gospels, with attention paid to the development of the New Testament canon, the Bible in the early Church, theological themes and issues of each Gospel, and the Gospel narrative itself; the letters of Paul and the catholic letters, their authorship, dating, development, importance to the Church community, theological themes, issues, and categories; and the Book of Revelation.

THL 2990 Principles of Catholic Social Doctrine (PHL) 3 s.h.

An examination of the major principles of Catholic social doctrine through a study of papal and Episcopal documents. Concepts and documents are studied in their historical context.

THL 3200 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.

THL 3330 Spirituality, Prayer, and the Saints 3 s.h.

Examination of the Catholic spiritual tradition: how unity with God is achieved and how the Christian life is lived. Focus on the nature of Christian prayer, the Liturgy, Catholic devotions, the various forms of Christian spirituality expressed by the Saints, and the spirituality of various religious orders. Several writings of the Catholic saints and mystics are read and discussed. Some attention to Protestant piety and the spiritual tradition of Eastern Orthodoxy.

THL 3333 Sacraments and Liturgy 3 s.h.

In-depth examination of the sacramental nature of the Christian faith with emphasis on the sacramentality of the Church, the historical development of the seven sacraments with special emphasis on the Eucharist, the relation of the sacraments to faith, worship, and spiritual development. Examination of current liturgical developments and issues that affect liturgical worship, including church design and architecture.

THL 3440 Mariology 3 s.h.

The life of Mary, the role of Mary in God's plan of salvation, the relationship between Christ and Mary, Mary as the model of the Church, the special place of Mary in the communion of saints, Marian piety, Mary and the role of women in the Church, the ex cathedra teachings having to do with the conception of Mary and her Assumption, Marian titles and feasts, and current issues having to do with Mary and the Christian faith, including Protestant perspectives on Mary.

THL 4040 Metaphysics (PHL*) 3 s.h.

THL 4100 Ecclesiology 3 s.h.

Focus on the nature of the Church, her founding, authority, the Church as presented in Scripture, her communal structure, sacramental nature, the salvific purpose of the Church, the role of the laity within the Church, relation of the Church to the Incarnation, Mary, and the Eucharist, and the nuptial order of the covenant of salvation.

THL 4220 Christology 3 s.h.

An exploration of the person of Christ and His salvific mission, the various stages of christological development within the church: the apostolic fathers and early apologists, the most important schools of Christology, the Christology of Paul and John, scholastic theology, and modern issues in Christology. Primary text is Karl Adams's *The Christ of Faith*.

THL 4930, 4940 Internship 1-3 s.h.

Participation in a leadership (volunteer or administrative) role in a service-oriented capacity in a Catholic apostolate, ministry, or parish, usually lasting a semester. Written reflection on the experience. Required of Sacred Theology majors and minors. Prerequisite: permission from the department chair.



istry, or parish, usually lasting a semester. Written reflection on the experience. Required of Sacred Theology majors and minors. Prerequisite: permission from the department chair.

THL 4950 Senior Thesis 1 s.h.

A 20-25 page thesis on a topic of Catholic theology, written during senior year and required for graduation in the Sacred Theology major. Prerequisite: prior approval of topic by the department chair.

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. *May be used in partial fulfillment of General Education Goal 5.B.*

SLS 1010, 1020 Beginning American Sign Language I, II 4, 4 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. Thirty hours of laboratory practicum required for SLS 1010, 1020. *Note: 3 s.h. of SLS language courses may be used in partial fulfillment of General Education Goal 6.B.*

SLS 2010 Intermediate American Sign Language II 4 s.h.

First level of immediate instruction and review of ASL grammatical features with further development of communication functions at the intermediate level. Prerequisite: SLS 1020 or placement. Thirty hours of laboratory practicum required for SLS 2010, 2020.

SLS 2020 Intermediate American Sign Language II 4 s.h.

Second level of immediate instruction and review of ASL grammatical features with further development of communication functions at the intermediate level. Prerequisite: SLS 2010 or placement. Thirty hours of laboratory practicum required for SLS 2020.

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 2280, 2290 Fingerspelling I, II 1, 1 s.h.

Concentrated instruction in practice of fingerspelling at increasing levels of complexity. Prerequisite: SLS 1020 or placement.

SLS 3010 Advanced American Sign Language I 3 s.h.

Advanced American Sign Language development with a focus on English and ASL content and text analysis to increase student vocabulary and understanding of ASL syntactical patterns. Communicative dialogues will emphasize sociocultural aspects of deafness. Prerequisite: SLS 2020 or departmental approval.

SLS 3020 Advanced American Sign Language II 3 s.h.

Continued advanced ASL development with further emphasis on sociocultural and historical considerations of deaf heritage. Prerequisite: SLS 3010 or departmental approval.

SLS 3310 Deaf Culture 3 s.h.

A survey of sociocultural factors that define Deaf persons as members of a cultural minority. Examination of Deaf history, exploration of cultural characteristics of Deaf persons, and a review of contributions of Deaf persons to American society. Prerequisite: SLS 2110. *May be used in partial fulfillment of General Education Goal 5.B.*

SLS 3450 Deafness and Community Resources 3 s.h.

History and evolution of community resource development that has become a contributing force behind social change within the Deaf Community. Covers such aspects as the Americans With Disabilities Act, related State and Federal laws, regulations and statutes that affect the lives of Deaf citizens. Service delivery systems such as education, vocational rehabilitation services, community mental health programs for Deaf persons, community service agencies (national, state, and local). Prerequisite: SLS 2110 or departmental approval.

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 or departmental approval.

SLS 4020 American Sign Language: Deaf Literature 3 s.h.

The use of American Sign Language poetry and story telling. ASL poetry is analyzed and incorporated as part of receptive/ expressive language development and advanced skills enhancement. Includes story telling techniques through the use of standard American folklore and other culturally valued forms of literature (ABC stories, "one-deaf" stories, sign play). Students evaluate existing videotapes of Deaf poets, Sign Language stories, and other esoteric aspects of Deaf culture such as sports signs. Prerequisite: SLS 4010 or departmental approval.

SLS 4030 ASL Drama 1-3 s.h.

The use of American Sign Language as a form of drama in the performing arts, including techniques of translation and the development of dramatic skills in American Sign Language. Prerequisites: SLS 3020 and or departmental approval.

SLS 4280 Simultaneous Communication 3 s.h.

Theory and application of simultaneous communication with emphasis on cognitive and sociolinguistic characteristics and its role in education. Includes analysis of the psycholinguistic implications of simultaneous communication. Prerequisite: SLS 3020 and/or departmental approval.

SLS 4410 Fundamentals of Interpretation and Transliteration 4 s.h.

Introduction to the theory, practice, and criticism of interpretation and transliteration: simultaneous and consecutive. Definition of basic terms and concepts. Study of various models of the interpreting and transliterating processes, problems of linguistic and communicative equivalence, historical foundations, and professional issues. Prerequisite: completion of SLS 3010 and/or departmental approval.

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 4410 and 4650.

SLS 4610 Voice to Sign: Interpreting Lab 3 s.h.

Development of skills in voice to Sign interpreting. Audio- and videotaped discourse is interpreted into ASL, and recorded and analyzed with the instructor. Prerequisites: SLS 4410, 3.0 average within SLS department, and/or departmental approval.

SLS 4620 Sign Language Structure 4 s.h.

Analysis of the symbolic and linguistic structure of American Sign Language and other Sign systems. Includes aspects of phonology, morphology, syntax, semantics, grammar, and discourse. Examination of bilingual and bicultural practices, sociolinguistics, and related research. Prerequisites: SLS 3010 and/or departmental approval.

SLS 4650 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 4620.

SLS 4710 Selected Seminar Topics 1-4 s.h.

Workshops or seminars include topics related to Sign Language and interpreting, such as linguistic research, bilingual education, and related issues. *(May be repeated for credit as topics vary. Students are allowed to apply up to four SLS workshop credits toward SLS major requirements. Additional workshops are optional.)*

SLS 4720 Interpreting for Deaf-Blind People 1-3 s.h.

Interpreting for Deaf-Blind people. Emphasis on techniques, strategies, and tactile interpreting for those people who are Deaf-Blind. Discussion of the role as intervener and special service provider for Deaf-Blind persons. Prerequisites: SLS 4610, 4810 or departmental approval.

SLS 4750 Interpreting in Specialized Settings 3 s.h.

Emphasis on specialized settings in which interpreters are expected to function. A range of interpreting settings and situations is presented, including: deaf/blind, hospital/medical, religious, and community based situations. Prerequisites: SLS 4410 and 4450, B average (SLS department) and departmental approval.

SLS 4810 Sign to Voice: Interpreting Lab 3 s.h.

Focus on Sign to voice interpreting. Videotapes and in-class speakers provide interpreting exercises for the student. Sign to voice techniques discussed and put into practice. Prerequisites: SLS 4410, 3.0 average within SLS department, and/or departmental approval.

SLS 4930 Field Experience 1-16 s.h.

Observation and/or practicum in Sign language interpretation, instruction, community-based service, organization, and agency, educational program, or related area. Maintenance of daily logs and placement with on-site personnel. Prerequisite: departmental approval.

Social Science (SSC)

SSC 3070 Social Studies Foundations (EDU) 3 s.h.

Interdisciplinary course comprising selected topics in Economics, Geography, History, Political Science, and Sociology integrated into an overview of the structure of the respective disciplines and designed to provide solid content background and resources for elementary school teachers. Prerequisites: SOC 1010, and PSC 2510 or GEO 3010.

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 the University.

SSC 4950 History and Social Science Seminar (HIS*) 4 s.h.

Theoretical and philosophical foundations of history and the social sciences, including a paper or project reflecting methodological skills. Prerequisite: senior status in the major.

Social Work (SW)

SW 2300 Introduction to Social Work 4 s.h.

Introduces students to the profession of social work, its Code of Ethics, values base, and commitment to social justice and working with vulnerable and oppressed groups. Explores social work's historical development as well as current trends in the profession and acquaints students with various fields of practice. Orients students to the roles of the generalist social work practitioner within a theoretical framework that consists of systems theory, the ecological perspective and the problem solving model. Emphasizes the positive value of diversity with a strengths-based approach to empowering populations at risk, including gays/lesbians, people of color, the elderly, and women. Stresses self-assessment in determining suitability for a career in social work. Includes a 30 hour service learning requirement. Prerequisites: SOC 1010, PSY 1010, or instructor's permission.

SW 2390 Empathy Listening Skills (SOC) 1 s.h.

Instruction and practice in the establishment of rapport with individuals through the use of empathic listening skills. The material is presented in the context of developing a helping relationship. Prerequisite: PSY 1010.

SW 3350 Generalist Practice Methods I 3 s.h.

The first in a sequence of four methods courses presenting the generalist model of social work practice. Students are oriented to the stages of the helping process and prepared for social work practice with individuals. Within a theoretical framework emphasizing systems theory, the ecological model and strengths based perspective, students explore the relationships between micro, mezzo, and macro level systems in order to interpret and intervene to enhance social functioning. Students learn to apply the steps of the problem solving process and how to use research-based knowledge to evaluate their practice. Students learn to work with diverse client systems by applying the knowledge, skills and values of generalist social work practice including communication, trust building, interviewing, empathy, and conflict resolution. Prerequisites: SOC 1010, PSY 1010. Prerequisite or corequisite: SW 2300.

SW 3400 Human Behavior and Social Environment I 3 s.h.

The first of two courses exploring human behavior and the social environment. This course establishes a foundation of knowledge of human development across the life course from the biophysical, psychological, and sociological perspectives in preparation for generalist social work practice. Includes an examination of the role of spirituality in human development. Emphasizes the interaction of these dimensions as they impact social functioning. Focuses on ecological systems theory as it informs the understanding of individual, family, group, organizational, and community behavior. Examines the system-wide impact of poverty, oppression, discrimination, and exploitation. Provides opportunity for students to reflect on the developmental influences that have affected their values, world view and professional development. Prerequisites: SOC 1010, PSY 1010, and BIO 1010/BIO 3150/ or NSC 1250.

SW 3410 Human Behavior and Social Environment II 3 s.h.

The second of two courses exploring human behavior in the social environment. This course builds upon the theories and approaches presented in HBSE I by providing a detailed examination of the influence of human diversity and culture on life cycle development and behavior. Explores the differences and similarities in the experiences, needs, and beliefs of people and stresses the positive value of diversity. Special emphasis is placed on the needs, characteristics, strengths, and capacities of populations at risk and the issues of oppression and social justice explored. The importance of appreciating human diversity and culture for social work practice with diverse client systems is also addressed. Prerequisite: SW 3400.

SW 3500 Social Welfare 4 s.h.

Examines the philosophical and historical basis and values of the social welfare system and the contemporary structure and functions of social programs. Identifies historical and current human needs and conditions that have made it difficult for individuals, families and communities to meet those needs resulting in use of social welfare services. Pays special attention to the dynamics and consequences of social and economic injustice, especially in relation to oppressed, discriminated against and exploited groups. Examines poverty, unemployment, income maintenance, distribution of wealth and income, and economic policy as they impact/are impacted by the social welfare system. Includes content on economic globalization and compares social welfare systems from a world perspective. Examines the literature in relation to social welfare issues and includes research skills in social welfare agency analysis. Prerequisite: SW 2300.

SW 3700 Generalist Practice Methods II 4 s.h.

The second in a sequence of four methods courses presenting the generalist model of social work practice and prepares students to work with mezzo level client systems. Students learn to apply the knowledge, skills and values of generalist social work practice in working with families and groups. Using a theoretical framework that emphasizes systems theory, the ecological model and strengths based perspective, students learn to interpret human behavior within the context and influence of the family's culture, ethnicity, world view, strengths, and developmental stages and challenges. Students develop and practice skills and methods for observing, assessing and intervening with groups and families. Prerequisite: SW 3350.

SW 4140 Conflict Resolution (SOC*/EDU) 1 s.h.

SW 4350 Generalist Practice Methods III 3 s.h.

The third in a sequence of four methods courses presenting the generalist model of social work practice and prepares students to work effectively within human service agencies. Organizational characteristics including structure, mission, climate, roles, systems, and formal and informal processes are analyzed. Students are oriented to program evaluation and complete an organizational analysis to assess organizational effectiveness, communication processes and leadership dynamics as well as the intended and unintended consequences of agency policies and practices with respect to populations at risk. Common ethical issues that arise in human service organizations are also explored and intervention strategies for effecting organizational change in furtherance of social justice are presented. Prerequisites: SW 3410, SW 3700 and admission to the Social Work Program.

SW 4500 Social Policy 4 s.h.

Explores contemporary social welfare policy in the United States and critically analyzes the social, cultural, economic, historical, political, and philosophical forces influencing its development. Discusses national and international trends and issues in social policy and distinguishes between policies, programs and institutions. Explores the relationship between social welfare policy and social work practice. Presents a framework for analyzing social policies and evaluating their intended and unintended effects particularly upon vulnerable populations including gays/lesbians, people of color, the elderly, and women. Reviews the political process and develops skills in using change and advocacy strategies to influence social policies and empower individuals, groups, families, and communities obtain needed resources. Prerequisites: PSC 2510, SW 3500, and admission to the Social Work Program.

SW 4700 Generalist Practice Methods IV 3 s.h.

The fourth course in the sequence of social work methods courses presenting the generalist model of social work practice. It prepares students to work effectively with communities by focusing on macro systems in a diverse society. Examines various perspectives on

the meaning of community. Emphasis is on the application of planned change to communities with attention given to the inter-play between and among the micro, mezzo, and macro systems. Included is content on discrimination, exploitation, and oppression, particularly as they relate to women, people of color, gays/lesbians, the elderly, and other clients from differing social, cultural, racial, religious, spiritual, and class backgrounds. Prerequisite: SW 4350 and admission to the Social Work Program.

SW 4800, 4900 Field Practicum I, II 4, 4 s.h.

The field practicum component for senior social work students involves 200 clock hours per term of direct service in a human service agency. Working under social work supervision, students are provided with structured learning opportunities that permit them to apply the knowledge, skills, and values of generalist social work practice in working with client systems of all sizes (individuals, groups, agencies, and communities). Students practice and refine skills in assessment, interviewing, problem solving, goal formulation and contracting, data collection, and evaluation within the context of the agency and the profession's values and ethics. Students are expected to effectively seek out and use supervision, conduct themselves professionally, and to demonstrate an active appreciation and respect for the positive value of diversity. Students are placed at their assigned practicum site fifteen hours per week for two consecutive terms (400 hours minimum). The accompanying SW 4850/4950 Field Seminar I and II serve as the capstone courses in which students demonstrate competence in the knowledge, values, and skills of generalist beginning level social work. At the completion of this course students are prepared for beginning level Generalist Practice and/or graduate social work studies. Prerequisites: SW 2390; SW 4140; SW 3700 for 4800; SW 4350 for 4900, admission to the Social Work Program; and permission to register for field. Co-requisites: SW 4850 with 4800, SW 4950 with 4900.

SW 4850, 4950 Field Practicum Seminar I, II 2, 2 s.h.

This is a weekly integrative seminar taken concurrently with Field Practicum I and II (SW 4800 and SW 4900). Students are expected to share and reflect upon the experiences and challenges of their field practicum. The focus is on evaluating and supporting the student's integration and application of the knowledge, skills, and values of generalist social work practice (learned throughout the social work curriculum) to agency practice and their beginning work with client systems. Students are expected to demonstrate the professional use of self, self-awareness, and an appreciation of diversity particularly as it relates to practice with populations at risk including people of color, women, the disabled, and gay/lesbian/bisexual/transgendered clients. Agency data, reports, forms, etc., are reviewed to further develop skills in research and program and practice evaluation strategies. Prerequisites: SW 3700 for 4850; SW 4350 for 4950; admission to the Social Work Program; and permission to register for field practicum. Co-requisites: SW 4800 with 4850; SW 4900 with 4950.

SW 4870 Social Work Research 4 s.h.

Prepares the student to be an educated consumer of social work and social science research studies and provides them with skills and knowledge necessary to perform basic research and program evaluation studies. Students are oriented to the research process; quantitative and qualitative methodologies as well as ethical considerations in conducting research with human subjects. Emphasis is placed upon applied research skills such as data collection, entry and analysis using SPSS, which culminates in a final, original research project that demonstrates knowledge in all steps of the research process. Prerequisites: SW 4500, CIS 2380 and admission to the Social Work Program.

Sociology (SOC)

SOC 1010 Introduction to Sociology and Cultural

Anthropology

4 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. Focus areas may include: community studies, social inequality, politics and economy, cultural anthropology, and religion and science.

SOC 1300 Introduction to Community Leadership 1 s.h.

Examination of various avenues to civic involvement and their importance in maintaining civil society, with an introduction to the communitarian philosophy and to principles and best practices in service learning. Designed to prepare students to get the most out of their community service experiences.

SOC 2210 Social Issues and Movements 4 s.h.

Analyses of major social issues and associated social movements. Consideration of national and international implications. Focus on issues of stratification (social class, race, sex), deviance, industrial conflict, warfare, environmental pollution, 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.

SOC 2300 Sport as Popular Culture (SM*) 3 s.h.

SOC 2330 Interviewing Techniques (SPH) 3 s.h.

Principles, types, and stages of interviewing; development of observation skills and communication ability using several interviewing techniques.

SOC 2390 Empathy Listening Skills (SW*) 1 s.h.

SOC 2900 Social Theory 2 s.h.

An examination of classical and 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 1010, SOC 2210.

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 impact on changes in 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 3160 Group Dynamics and Discussion Techniques (SPH) 4 s.h.

An analysis of how groups shape identity and social norms. Focus on how group size and structure influence interaction within various types of groups: e.g. family, school, work, and community. Group discussion exercises develop proficiency in communication and group facilitation.

SOC 3210 Principles of Criminology (CJ*/FOR) 3 s.h.

SOC 3220 Race, Ethnicity and Class in American Life (HIS*) 4 s.h.

SOC 3230 Juvenile Justice (CJ*) 3 s.h.

SOC 3250 Women and Violence 2 s.h.

An examination of selected types of violence in women's lives. Analysis of the social factors influencing women's deviance, victimization, and criminality. Focus on the relationship between gender roles and violence, as well as the most common forms of violent behavior women encounter, such as rape, domestic battery, and prostitution.

SOC 3530 Marriage and the Family (RST*/FCS) 4 s.h.**SOC 3670 Social Psychology 4 s.h.**

Examination of the complex ways in which human beings comprehend themselves and their social environment. Focus on how one's identity is "socially constructed" in all phases of the life cycle. Emphasis on influence of culture and society on attitudes, personality and behavior, attraction, aggression, conformity, power, and dynamics of the group. Focus areas may include: media, and politics and economics. Prerequisite: SOC 1010 or PSY 1010.

SOC 3680 Social Change in the Sixties 2 s.h.

Analyses of dramatic aspects of social change in the 1960s, such as civil rights, student, anti-war, and women's movements. Social and historical contexts are considered, as well as how individuals experienced this period of change.

SOC 3710 Special Topics in Sociology 1-3 s.h.

Analyses of current issues and topics from a sociological perspective. *Normally offered in a weekend format.*

SOC 3750 Religion and Society (HUM) 3 s.h.

Analysis of the social origins of religion and the human drive to seek meaning beyond the social experience. An examination of religious practices and beliefs in various historical and social contexts from a cross-cultural perspective. Topics to include: religious diversity; politics/stratification and religion; religious freedom and movements; social change and religion; science, technology and religion; and the future of religion.

SOC 3800 Sex and Gender Roles 4 s.h.

An examination of the idea of socially constructed gender roles and how these roles changed historically in response to internal contradictions, as well as political and economic forces such as the women's movement. Perspectives included from disciplines such as history, biology, anthropology, psychology, political science, and economics. Discussion of the interaction of race, ethnicity, social class, and sexual orientation with gender roles with an emphasis on multiculturalism and globalism.

SOC 4140 Conflict Resolution (EDU/SW) 1 s.h.

An interdisciplinary examination of conflict resolution with an emphasis on an applied or clinical sociology perspective. Focus on an introduction to the knowledge and skills of conflict resolution in everyday social interactions in the home and workplace. Issues of non-violence and diversity addressed.

SOC 4150 Social Gerontology (GER*) 3 s.h.**SOC 4420 Urban Community 4 s.h.**

Examines historical and current patterns, structures, functions, and problems of urban communities. Emphasis on the nature of the city and consequences of urban planning on political and economic aspects in an era of scarcity and increasing diversity. Focus on both historical and contemporary conditions and life styles of cities, suburbs, and rural areas. Prerequisite: SOC 1010.

SOC 4890 Seminar in Community Leadership 3 s.h.

To prepare student for active civic engagement and eventual leadership. Purposeful civic learning through the student's service learning leadership placement and the creation of a Community Leadership Portfolio. Analysis of the role of civic engagement and community involvement in the maintenance of civil society and American democracy.

SOC 4900 Social Research Methods 4 s.h.

An examination of various research methods in sociology and related social science disciplines. Consideration of the complexity and usefulness of social research within academic and non-academic settings. Analyses of how the scientific method helps us to better understand social structure and interaction. Topics include: the nature and structure of causation and social inquiry, methods of observation, analysis of data, types of social statistics, and uses of social research. Students complete a research project and gain practical experience. Prerequisite: SOC 2210, SOC 2900.

SOC 4950 Sociology Seminar 2 s.h.

A specialized seminar for sociology majors intended to link critical areas of theoretical concern to the techniques and debates of current research and sociological knowledge. Students design and complete projects related to major areas of sociological concern, especially the nature, scope, and logic of social changes. The course includes an exploration of specific strategies to improve society. Prerequisite: SOC 4900, senior standing, and departmental approval.

Spanish (SPA)**SPA 1010, 1020 Elementary Spanish I, II 4, 4 s.h.**

To be taken in sequence. Introduction of the basic skills for mastery of the Spanish language: listening, speaking, reading, and writing. Culture and civilization are also studied. At least one hour of daily language study is required.

SPA 2230, 2240 Intermediate Spanish I, II 4, 4 s.h.

To be taken in sequence. To further the student's ability to communicate in Spanish and deepen an understanding of the culture and civilization of Spanish-speaking peoples. At least one hour of daily language study is required. Prerequisite: SPA 1020 or equivalent.

SPA 3110 Spanish Phonology 4 s.h.

Theory and practice of modern Spanish pronunciation, intonation, and rhythm. Intensive individual practice. Prerequisite: SPA 2240.

SPA 3200 Spanish Project 1-4 s.h.

The Spanish Project allows a student to strengthen specific skills for language proficiency. The Project is designed to fit individual needs. Prerequisite: SPA 2240 and permission of instructor.

SPA 3220 Spain: Culture and Civilization 4 s.h.

Significant aspects of the geographical, historical, social, and cultural backgrounds of Spain studied for a better understanding of its civilization today. In Spanish. Prerequisite: SPA 2240.

SPA 3230 Latin America: Culture and Civilization 4 s.h.

Significant aspects of the geographical, historical, social, and cultural backgrounds of Latin America studied for a better understanding of its civilization today. In Spanish. Prerequisite: SPA 2240.

SPA 3310 Oral and Written Composition 4 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. Prerequisite: SPA 2240.

SPA 3570 Literature in Spanish I (Beginnings to 1850) 4 s.h.

Outstanding literature written in Spanish: literary genres and movements from their beginnings through the mid-nineteenth century. In Spanish. Prerequisite: SPA 2240.

SPA 3580 Literature in Spanish II (1850-Present) 4 s.h.

Outstanding literature written in Spanish: literary genres and movements from the mid-nineteenth century to the present. In Spanish. Prerequisite: SPA 2240.

SPA 3600 Special Topics 1-4 s.h.

Directed study by an advanced student pursuing an area of interest within the Spanish program (i.e., literary analysis, cultural analysis). Designed to fit the individual interests of the advanced student. In Spanish. Prerequisite: SPA 2240 and permission of instructor.

SPA 4800 Foreign Study in Spain/Spanish America 4-16 s.h.

Students elect a program of study in a Spanish-speaking country. Options include study during the summer and/or academic year. Prerequisite: Approval of Spanish advisor in cooperation with the Center for International Studies.

Special Education (SED)

The SED rubric is used for graduate courses only. See listings under EDUCATION (EDU).

Speech Communication (SPH)**SPH 1050 Speech Communication 3 s.h.**

Principles of speech communication applied to interpersonal, group, and public speaking situations. Emphasis on preparation, delivery, persuasive techniques, listening, and responding to messages. Opportunity to practice speaking skills.

SPH 2330 Interviewing Techniques (SOC*) 3 s.h.**SPH 2510 A Survey of Telecommunications (TVC*/JRN) 3 s.h.****SPH 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.

SPH 3000 Children's Literature and Drama (ENG*) 4 s.h.**SPH 3160 Group Dynamics and Discussion Techniques (SOC*) 4 s.h.****SPH 3300 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.

SPH 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.

SPH 3510 Television Production Techniques I (TVC*/JRN) 3 s.h.**SPH 4010 Foundations of Mass Communication (JRN*/TVC) 3 s.h.****SPH 4150 Film Appreciation (TVC) 4 s.h.**

Examination of those aspects of film that qualify it as an art form worthy of critical attention.

SPH 4910 Cooperative Education 1-4 s.h.**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 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 Sport as Popular Culture (SOC) 3 s.h.

Sport as a significant part of popular culture. Topics include the analysis of the production and consumption of sport and leisure as an aspect of contemporary popular culture; the relationship between sport and leisure and the economy, the media and politics; and the experience of class, race, gender, ethnicity, and nationality.

SM 2910 Sport Management Practicum 1 s.h.

A work experience in a specific area of the sport industry, aimed at providing an introduction for students in the field of sport management, allowing students to encounter supervised practical experiences in a variety of sport and leisure service areas. Prerequisite: SM 1100.

SM 3100 Facility Design and Event Management (HMG) 3 s.h.

The processes 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 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 the sport and leisure industry: event marketing, sponsorship, licensing, sport information, and public relations. Prerequisite: SM 1100.

SM 4100 Legal and Ethical Aspects of Sport (BUS) 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 3300.

SM 4260 Club Management (HMG*/MGT)**SM 4300 Budgeting and Financing of Sport (ECN) 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 Gender and Race in Sport 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 4930 Sport Management Internship 3 s.h.

On-the-job experiences with the application of principles and techniques that have been presented in course work in the sport management program. Approximately 400 clock hours, including periodic consultation with a university supervisor. Prerequisite: senior standing and at least 24 credits in the Sport Management major. Corequisite: SM 4950.

SM 4950 Seminar in Sport Management 2 s.h.

In this capstone seminar, students integrate their internship experiences in sport management with the relevant theoretical knowledge. Classroom discussion focuses on the practical application of these theories and their relevance to the "real world." Prerequisite: Senior standing and at least 24 credits in the Sport Management major. Corequisite: SM 4930.

Television and Video Communications (TVC)

TVC 2510 A Survey of Telecommunications (JRN/SPH) 3 s.h.

An integrated approach to electronic media, its technical and economic nature, and its consideration as both a product of social forces and as a social force itself.

TVC 3510 Television Production Techniques I (JRN/SPH) 3 s.h.

Basic techniques and equipment used in cable, industrial/educational and commercial television production; emphasis on set-up and operation of cameras, microphones, videotape recorders, lights, and studio and control room equipment. Emphasis on team approach.

TVC 3520 Television Production Techniques II (JRN/SPH) 3 s.h.

Production techniques and equipment used in cable, industrial/educational, and commercial television; emphasis on program production and organization, directing, camera techniques, lighting techniques, videotaping, and integration of field produced tapes. Emphasis on team approach. Prerequisite: TVC 3510 or permission of instructor.

TVC 3710 Scriptwriting, Proposal Writing, and Budgeting for Television (JRN) 3 s.h.

A study of the preparation of the television program proposal, budgeting problems and considerations, and the development of the final program script. Prerequisite: TVC 3510 or permission of instructor.

TVC 3810 Field Production and Editing I (JRN) 3 s.h.

Consideration of the unique characteristics of single camera production or videography for corporate, commercial, and consumer use. Emphasis on directing theory, camera technique, sound, lighting, and editing. Prerequisite or corequisite: TVC 3510.

TVC 3820 Field Production and Editing II (JRN) 3 s.h.

Advanced field production and editing with emphasis on creative camera and lighting techniques, shot continuity, audio, electronic graphics, developing an edit decision list, and special effects. Prerequisite: TVC 3810.

TVC 4010 Foundations of Mass Communication (JRN*/SPH) 3 s.h.

TVC 4110 Television News Reporting and Production (JRN) 3 s.h.

Electronic journalism techniques and hands-on experience of producing a short news program, including researching and writing the stories, newsgathering techniques, interviewing, on-camera reporting, anchoring, and assembling the program elements. Prerequisites: TVC 3510, 3810.

TVC 4150 Film Appreciation (SPH*) 4 s.h.

TVC 4510 Directing and Producing for Television (JRN) 3 s.h.

A theoretical and practical approach to organizing and directing television programs for broadcast, corporate, and educational use. Students actually produce and/or direct a program for broadcast. Prerequisites: TVC 3520 and permission of instructor.

TVC 4910, 4920 Cooperative Education 1-4 s.h.

Theology

See listing under SACRED THEOLOGY.

University (UNV)

UNV 1010 Transition to Higher Education 1 s.h.

Interactive course designed to address transition issues first-year students face when entering the University: introduction to thought-provoking, challenging, and interesting ideas to enhance critical thinking, research, writing, and presentation skills; engagement in a community of learners; and 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. Required of all incoming students who are less than 24 years of age and have fewer than 13 college transfer hours, unless they are non-native speakers of English (see ESL 1010).



Section IV:

Directories

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Maps

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Phone Numbers

MADONNA UNIVERSITY(734) 432-5300
 (800) 852-4951
 TTY(734) 432-5643

Academic Advising and Prior Learning ..(734) 432-5417
 College of Arts and Humanities(734) 432-5543
 School of Business(734) 432-5354
 College of Education(734) 432-5655
 College of Nursing and Health(734) 432-5717
 Saint Mary's College(248) 683-0521
 College of Science and Mathematics(734) 432-5523
 College of Social Sciences(734) 432-5570

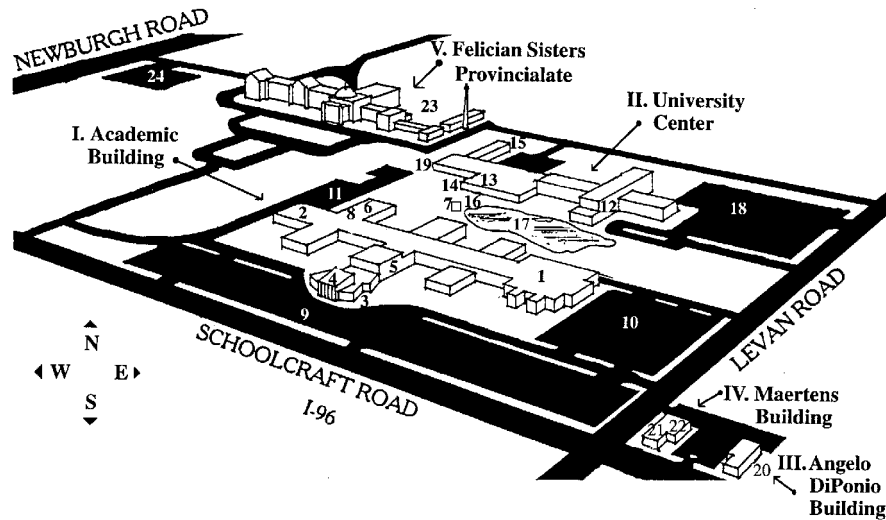
Admissions Office(734) 432-5339
 Nursing Admissions(734) 432-5717
 Downriver Center(734) 324-8888
 Orchard Lake Center(248) 683-0523

Financial Aid(734) 432-5663
 Office of the Registrar(734) 432-5400
 Student Accounts(734) 432-5600

Alumni Office(734) 432-5811
 Athletics(734) 432-5608
 Bookstore, Livonia(734) 432-5613
 Campus Ministry, Livonia(734) 432-5839
 Campus Ministry, Orchard Lake Center ..(248) 706-4217
 Career Services(734) 432-5623
 Center for International Studies(734) 432-5669
 Center for Personalized Instruction(734) 432-5599
 Center for Research(734) 432-5697
 Continuing and Professional Studies(734) 432-5732
 Office of Disability Resources(734) 432-5639
 Graduate Studies(734) 432-5667
 International Students Office(734) 432-5791
 Library, Livonia(734) 432-5703
 Office of Multicultural Affairs(734) 432-5672
 Psychological Services Clinic(734) 432-5493
 Residence Hall, Livonia(734) 432-5557
 Service Learning Office(734) 432-5704
 Student Life Office(734) 432-5427
 Student Life, Orchard Lake Center(248) 683-9709
 SWEEP, Livonia(734) 432-5733
 SWEEP, Southwest Detroit(313) 965-5334
 Technology HELP Desk(734) 432-5800
 Technology Learning Center(734) 432-5376

PUBLIC SAFETY and EMERGENCY ... (734) 432-5442

LIVONIA CAMPUS



I. Academic Building

1. Activity Center
2. Administration
3. Kresge Hall
4. Library
5. Science Lecture Hall
6. Educational Development Center
7. St. Francis Gazebo

8. Bookstore

9. South University Parking Lot
10. East University Parking Lot
11. West University Parking Lot

II. University Center

12. Residence Hall
13. Cafeteria & Student Center
14. University Chapel (Ground Floor)

15. Faculty Residence

16. University Center Classrooms
17. St. Francis Pond
18. North Residence Hall Parking Lot
19. Guest House

III. Angelo DiPonio Building

20. College of Nursing & Health

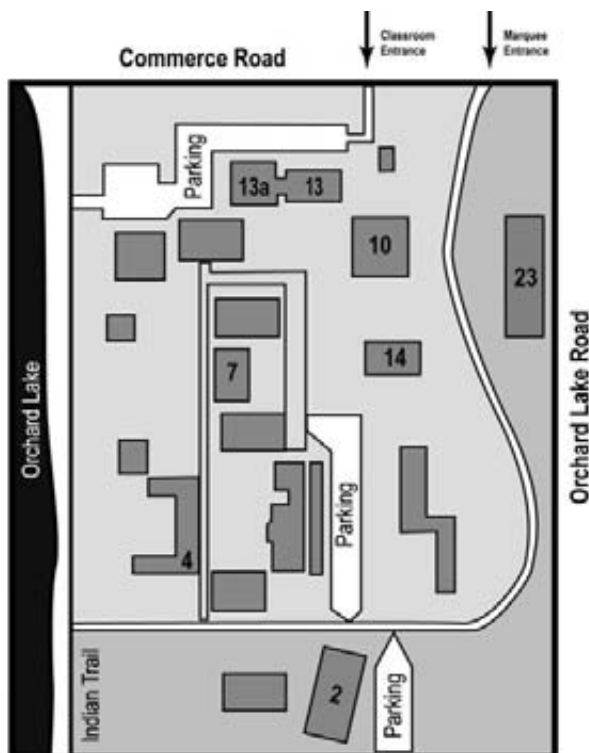
IV. Maertens Building

21. School of Business
22. College of Continuing and Professional Studies

V. Felician Sisters Provincialate

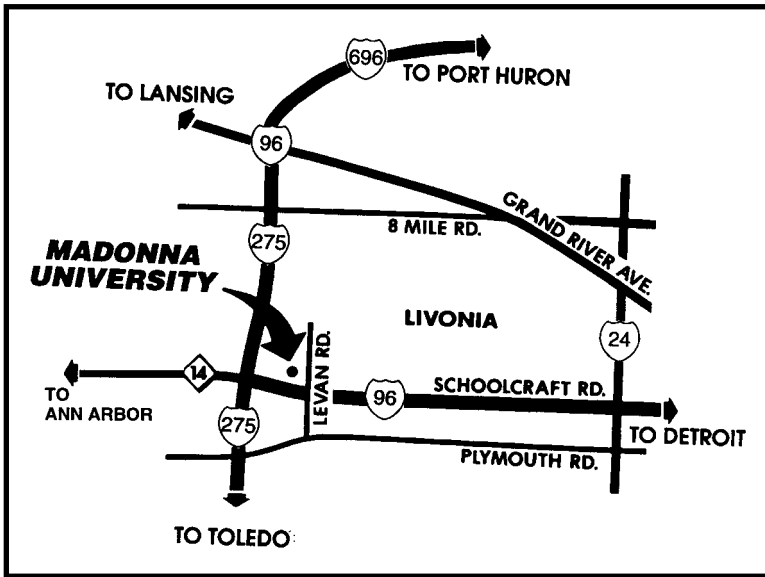
23. Presentation Chapel
24. West Provincialate Parking Lot

ORCHARD LAKE CENTER



- 2 Library/Bookstore/Cafe
- 4 Barracks Faculty Offices/Science Labs
- 7 Administration Building/Student Services
- 10 College Dining Hall
- 13a College Academic Center ("CAC")
- 13 Marian Hall
- 14 Shrine Chapel
- 23 Dombrowski Fieldhouse

MAPS



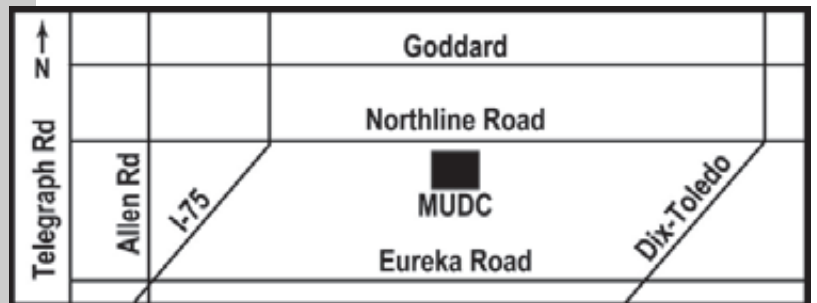
LIVONIA CAMPUS

Madonna University is located east of the I-96 and I-275 intersection

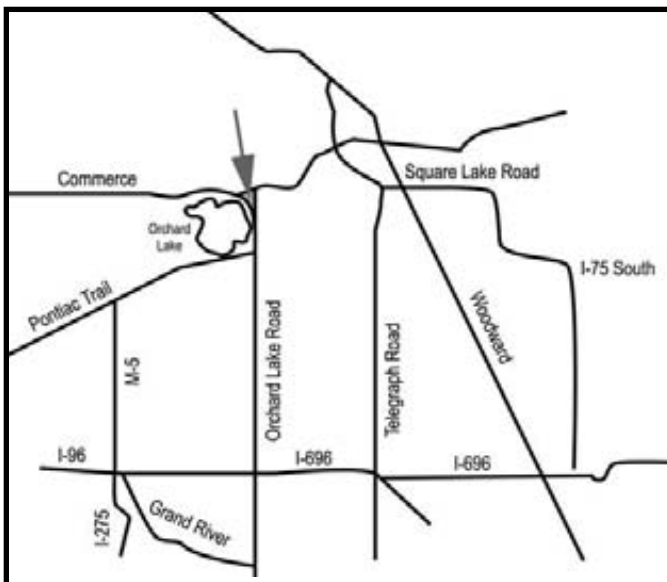
36600 Schoolcraft Road
Livonia, MI 48150
(734) 432-5300

DOWNRIVER CENTER (MUDC)

15601 Northline Road
Southgate, MI 48195
(734) 324-8888



The building sign on Northline Road says "St. Thomas Aquinas Center".
The Madonna University entrance is around the back on the eastern end of the building.



ORCHARD LAKE CENTER

3535 Indian Trail
Orchard Lake, MI 48324
(248) 683-1757