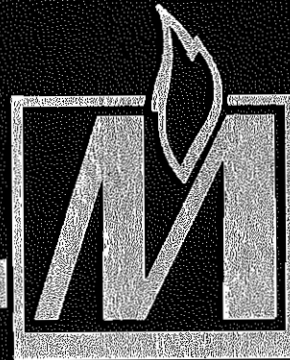


Historical Copy
Do not remove from Registrar's Office

**UNDERGRADUATE
BULLETIN**

1990-1992

**MADONNA
COLLEGE**



MADONNA COLLEGE --- BULLETIN

Volume 31, 1990 - 1992
(Effective as of Term I, 1990)

Madonna College
36600 Schoolcraft
Livonia, Michigan 48150
(313) 591-5000 • TTY 591-1203

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

MADONNA COLLEGE CALENDAR

Term I - Fall	1990-91	1991-92
Faculty Conference	Aug. 30-31	Aug. 29-30
Classes Begin	Sep. 4	Sep. 3
Add-Drop Period	Sep. 4-10	Sep. 3-9
Filing Deadline for Graduation, Term II/May	Sep. 28	Sep. 30
Final Date: Election S Grade	Oct. 26	Oct. 25
Comprehensive Examinations: Term I	Nov. 3	Nov. 2
Mail-In Registration: Term II/Winter	Nov. 5-21	Nov. 4-22
Final Date: Withdrawal from Courses	Nov. 12	Nov. 11
Thanksgiving Recess	Nov. 22-24	Nov. 28-30
On-Campus Registration: Term II/Winter	Nov. 27-29	Dec. 3-5
Final Examinations	Dec. 10-15	Dec. 9-14
End of Term I	Dec. 15	Dec. 14
Grades Due by 12:00 noon	Dec. 19	Dec. 18
Term II - Winter		
Faculty Conference	Jan. 4	Jan. 3
Classes Begin	Jan. 7	Jan. 6
Add-Drop Period	Jan. 7-12	Jan. 6-11
Filing Deadline for Graduation, Term II/July	Jan. 31	Jan. 31
Comprehensive Examinations: Term II	Feb. 2	Feb. 1
Mail-In Registration: Term III/Spring-Summer	Feb. 18-Mar. 5	Feb. 17-Mar. 6
Final Date: Election S Grade	Feb. 22	Feb. 21
Spring Vacation	Mar. 4-8	Mar. 2-6
On-Campus Registration: Term III/Spring-Summer	Mar. 12-14	Mar. 10-12
Final Date: Withdrawal from Courses	Mar. 15	Mar. 13
Mail-In Registration: Term I/Fall	Mar. 25-Apr. 12	Mar. 23-Apr. 7
*Easter Recess	Mar. 29-30	Apr. 17-18
On-Campus Registration: Term I/Fall	Apr. 16-18	Apr. 13-15
Final Examinations	Apr. 22-27	Apr. 20-25
End of Term II	Apr. 27	Apr. 25
Grades Due by 12:00 noon	May 1	Apr. 29
Commencement	May 4	May 2
*Easter Recess begins at 4:00 p.m. on the Thursday before Easter.		
Term III - Spring/Summer		
Classes Begin	May 6	May 4
Add-Drop Period	See Tuition and Fees Section	
Final Date: Withdrawal from Classes - No later than 2/3 of Complete Course Work		
Memorial Day - No classes	May 27	May 25
Filing Deadline for Graduation, Term I/May	May 31	May 29
Final Date: Election of S Grade		
Comprehensive Examinations: Term III	Jun. 8	Jun. 6
Independence Day - No classes	Jul. 4	Jul. 3-4
Final Examinations	Last Class Session	
End of Term III	Jul. 27	Jul. 25
Grades Due by 12:00 noon	Jul. 31	Jul. 29

TABLE OF CONTENTS

	Page
College Calendar.....	2
The College	4
Academic Options	12
Admissions	16
Tuition & Fees	23
Financial Aid	29
Student Life.....	39
Student Support Services	44
College Policies.....	47
Majors & Degree Programs	60
Plan of Study: General Education	62
Divisional Organization	69
Plans of Study: Majors & Programs.....	71
Course Descriptions	144
Board of Trustees	230
Officers of Administration	230
Faculty	231
Academic & Institutional Support Staff	236
Index	238
Campus Plans and Maps.....	244
College Logo.....	248

*Each Madonna College student is responsible for compliance
with the contents of this Bulletin.*

*The College reserves the right to withdraw or modify
information in this Bulletin.*

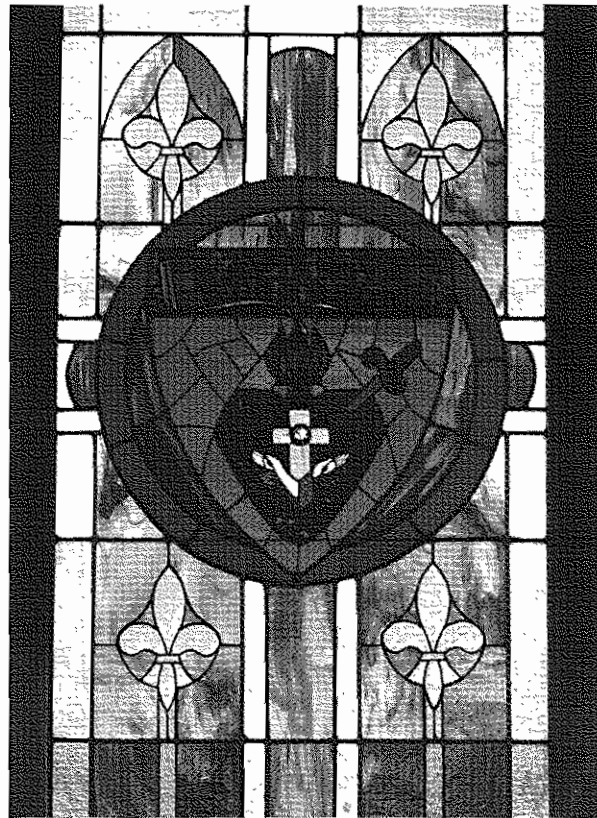
The Felician Sisters
conduct four colleges:

Montay College
Chicago, Illinois 60659

Felician College
Lodi, New Jersey 07644

Villa Maria College
Buffalo, New York 14225

Madonna College
Livonia, Michigan 48150



The crest consists of the Franciscan emblem, which is a cross and the two pierced hands of Christ and St. Francis. The Felician Sisters' emblem is the pierced Heart of Mary, with a host symbolizing the adoration of the Eucharist through the Immaculate Heart, to which the Community is dedicated. The College crest, "Sapientia Desursum", is translated "Wisdom from Above".

THE COLLEGE

Madonna College History

Madonna College is proud of its commitment to quality liberal arts education and its history of public service. Founded by the Felician Sisters as Presentation Junior College in 1937, it was renamed Madonna College in 1947 and incorporated as a baccalaureate institution. It became coeducational in 1972 and initiated its first graduate programs in 1982. Madonna College maintains its tradition as an independent Catholic College.

Mission Statement

The mission of Madonna College is to instill in its students Christian humanistic values, intellectual inquiry, and a commitment to serving others through a liberal arts education, integrated with career preparation and based on the truths and principles recognized within a Catholic tradition.

The Franciscan Ideal

The Madonna College Community is committed to support and maintain an educational environment which is in harmony with the teachings of Jesus Christ as exemplified in the life of St. Francis of Assisi. These precepts encourage a "conversion of heart" away from selfish worldliness toward a Christ-centered vision of creation and decision-making based on that mentality. The Mission of the College receives its spirit from such Franciscan ideals as:

- a reverence for the dignity of each person;
- a love of God translated into assisting all people, especially the poor, minority, and handicapped;
- an appreciation of nature and all creation; and
- a desire to advance the arts and develop the intellect so as to render service to humanity.

The Catholic Tradition

While maintaining fidelity to the teaching authority of the Catholic Church through its academic curriculum, Madonna College promotes an appreciation and openness for other religious traditions and encourages an atmosphere of respect and sensitivity to all persons. The faith environment is one that fosters the spirit of ecumenism, intellectual freedom, and open dialogue.

Through undergraduate, graduate, and continuing education opportunities, Madonna College aims to provide men and women with:

- the accomplishments of intellectual, spiritual and personal growth;

- the comfort and guidance of the Gospel message as relevant to problems of the contemporary world; and
- the courage to witness Christ to the world through pursuit of truth and commitment to service.

Liberal Arts with Career Preparation

Madonna College believes in the enduring values of the liberal arts, with its curriculum based on history, culture and traditions as the foundation for the critical thinking decision-making and higher literacy required as preparation for responsible careers in a contemporary work environment.

Courses for all students are designed:

- to be intellectually challenging;
- to foster independent learning;
- to cultivate new knowledge through study, research, dialogue, analysis and synthesis;
- to liberate the spirit; and
- to eliminate ignorance, fear and prejudice.

Christian Humanistic Values

Christian humanism, developing 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 toward history itself. This philosophy recognizes the innate dignity of each person and the capacity and freedom of will to develop one's physical, social, psychological, and spiritual well-being to the fullest.

Madonna College seeks to provide an educational setting in which students and faculty alike can:

- pursue humanistic endeavors, including appreciation of the cultural heritage of the world's peoples;
- discover a responsibility for lifelong learning;
- develop a sensitivity to human feelings and the expression of talents; and
- respond in social conscience to the needs of society.

The Embodiment of the Mission

Madonna College aims to educate students to become the embodiment of its mission through the attainment of defined competencies.

The College community envisions the MADONNA COLLEGE GRADUATE to be a person who:

1. Understands and can apply Christian principles to personal, family, and social life by assuming responsibility for decisions based on moral values.
2. Acquires an understanding and acceptance of the influence of Judeo-Christian principles and other world religions on contemporary institutions and on individual value decisions.
3. Respects each person's human dignity and is actively concerned for the welfare of each individual.
4. Prepares for meaningful roles in the contemporary world by a study of the past and present and a conscious awareness of possibilities for the future.
5. Becomes involved as a responsible world citizen in the affairs of the community and, avoiding prejudice, is willing to work for justice and peace.
6. Communicates clearly and effectively in action and in words.
7. Discovers that learning is a life-long process and develops a spirit of inquiry to motivate one to continue to learn.
8. Appreciates the artistic and aesthetic dimensions of various cultural heritages.
9. Acquires knowledge of the increasing impact of science and technology on the total human enterprise and develops skills to function in the modern technological world.
10. Prepares professionally to assume leadership and accept challenges of a productive and rewarding career.

The College Campus

The wooded forty-nine acre campus of Madonna College 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, and important state highways.

The two-story academic building accommodates a variety of purposes from administrative offices and the College bookstore to classrooms and laboratories. Special facilities include the TV Studio/Graphics area, where students and faculty can work with media specialists to develop audio-visual materials for instruction or presentation. Another important facility is the Health Instruction Center. This includes a practice laboratory for clinical instruction, a library of print and audio-visual resources in nursing, individual study carrels, and the office of the Director of the H.I.C., a library/media specialist.

Career counseling and advising are provided by the staff of the Career Resource Center, a national model for liberal arts colleges. Students can investigate career alternatives with the aid of the CRC staff and materials, and utilize the testing, cooperative education and placement services of the center.

The Computer Laboratory, also located in the academic building, supports the computer science and computer systems programs and provides access to microcomputers and to an IBM 4341 mainframe. Madonna College has made computer literacy a priority across the institution so that students learn computer applications in their fields.

The Library, built in 1984, is a focal point for the academic life of the campus. Housing more than 109,000 books and other print and nonprint materials, the library provides comfortable study and reading areas, in addition to group study and conference rooms.

The library has recently implemented a library management system, to be fully automated by 1992, which enables patrons to search the catalog on-line through public access terminals. The complete data-base will contain all library holdings, including serials, and will allow keyword searching with Boolean operators in addition to standard bibliographic searches.

The library expands its resources by subscribing to other online computer services such as Dialog and Bibliographic Retrieval Service (BRS). It also maintains membership in the Southeastern Michigan League of Libraries Infopass system. This entitles students to borrowing privileges at more than twenty participating university and public libraries. Additionally, books, abstracts, monographs, articles, research and technical reports, and policy manuals can be obtained through the Network Locator Services of the Michigan Library Association. Through such consortial arrangements students can take advantage of the extensive research and library resources in the Detroit-Ann Arbor area. Other library resources include coin and card operated photocopiers and word processing equipment, 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 College's multiethnic student body, and the Livonia Bar Association Law Library, deeded to the Madonna College Library, constitutes a special resource for students studying law-related courses. The library wing also houses the College Archives and Kresge Hall, a 300-seat auditorium for special events.

The Activities Center, attached to the academic building, seats 1,000 spectators and provides facilities for sports activities, stage productions, convocations, and lectures. The Oakway Symphony Orchestra as well as area

dance and theatre troupes appear before student and community audiences. Adjacent courts for tennis, basketball, and volleyball encourage team and individual sports.

The Learning Center offers services to children and adults from the surrounding communities in diagnosis and remediation of reading and learning problems. Here pre-service and in-service teachers gain valuable laboratory experience.

The Center for Personalized Instruction is located in the educational development wing. The CPI provides tutoring services and self learning materials in basic college level skills.

The Residence Hall houses 200 men and women in separate wings. Through the year, the dorm lounges, the commons and snack bar, and the spacious dining halls are centers for floor parties, coffee houses, 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 Madonna College buildings are barrier free for the physically handicapped. Closed captioned televisions, teletypewriters, and telephone boosters are available to hearing-impaired students.

Approvals and Accreditations

American Bar Association, 1984, 1990

American Dietetic Association - Plan IV, 1977, 1982; Plan V, 1990

Council on Social Work Education, 1982, 1988

Michigan Board of Education:

Approval of four-year degrees, 1947

Teacher certifications, 1954, 1969

Vocational certification and authorization, 1969, 1974

Learning disabilities certification, 1974

Reading, 1977

Master of Science in Administration, 1982

Computer Science, 1984

Master of Science in Nursing, 1987

Michigan Board of Nursing, 1967

Michigan Department of Public Health:

Advanced Emergency Medical Technician, 1975

Basic Emergency Medical Technician, 1985

Emergency Medical Technician, Instructor/Coordinator, 1985

North Central Association of Colleges and Schools, 1959, 1968, 1978, 1982
(Graduate Studies), 1988

National Council for Accreditation of Teacher Education, 1972, 1981

National League for Nursing, 1970, 1978, 1984

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

Memberships

Adult Education Association of Michigan
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
& Development
American Association for Higher Education
American Association for Paralegal Education
American Association for Physics Teachers
American Correctional Association
American Council on Education
American Diabetes Association
American Dietetic Association
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
Archdiocese of Detroit Catholic Campus Ministry
Association of American Colleges
Association of Catholic Colleges and Universities
Association of College and University Telecommunication Administrators
Association of Departments of English
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
Career Educational Association
Catholic Library Association
College Art Association
College and University Personnel Association
College of Obstetricians and Gynecologists
College Placement Council
Conference of Interpreter Trainers
Consortium for Computing in Small Colleges
Cooperative Education Association
Council for Adult and Experiential Learning
Council for the Advancement of Experiential Learning
Council of Independent Colleges
Council for Liberal Learning
Council on Social Work Education
Detroit Area Consortium of Catholic Colleges
Fashion Group
Gerontological Society of America
Greater Detroit Chamber of Commerce
Historical Society of Michigan
International Association of Chiefs of Police
International Television Association
Legal Assistants Association of Michigan
Livonia Chamber of Commerce
Michigan Academy of Science, Arts, and Letters

Michigan Association for Adult and Continuing Education
 Michigan Association of Baccalaureate Social Work Programs
 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 of Health, Physical Education and Recreation
 Michigan Association of Teachers of English
 Michigan Catholic Campus Ministry Association
 Michigan Catholic Guidance Council
 Michigan College and University Placement Association
 Michigan Colleges Foundation
 Michigan Committee for Jobs and Energy
 Michigan Council on Human Service Education
 Michigan Criminal Justice Educators Association
 Michigan Developmental Education Consortium
 Michigan Dietetic Association
 Michigan Home Economics Association
 Michigan Hospice Organization
 Michigan Library Consortium
 Michigan Registry of Interpreters for the Deaf
 Michigan Society of Gerontology
 Michigan Student Financial Aid Association
 Michigan Women's Studies Association
 Mid-America Association of Education Opportunity Program Personnel
 Midwest Alliance for Nursing
 Midwest Association of Student Financial Aid Administrators
 Midwest College Art Association
 Midwest Modern Language Association of America
 Modern Language Association of America
 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 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 Senior Citizens
 National Council of Teachers of English
 National Council of Teachers of Mathematics
 National Fire Protection Association
 National Hospice Organization
 Nurse's Association of America
 Nutrition Today Society
 On-Line Audiovisual Cataloguers
 Optical Society of America
 Senior Coordinating Agency Network
 Sign Language Instructors Guidance Network
 Society of American Archivists
 Society for Nutrition Education
 Southeastern Michigan Television Education Consortium
 Television Licensing Center

ACADEMIC OPTIONS

Madonna College students may select certificate, associate or baccalaureate programs in over 50 different majors. In addition to the traditional academic program, Madonna College offers a variety of nontraditional options that create special opportunities for students. (Three master degree programs are also available. See Graduate Studies Bulletin.)

The College Year: Flexible Scheduling

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

Term I, Fall: 15 weeks, September through December

Term II, Winter: 15 weeks, January through April

Term III, Spring/Summer: 12 weeks, May through July

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

Weekday Classes

9 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.

Weekend seminars, workshops and institutes offer additional learning opportunities.

Advanced Placement

Madonna College 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 Director of Admissions.

Credit for Experiential Learning

Adult students pursuing a college degree frequently have mastered college course competencies in life or work situations. The Madonna College Experiential Learning Program (ELP) provides the option for students to receive up to 60 semester hours of credit for learning experiences outside the college classroom. Such experiences include: military service; community

service; internship or in-service; research or independent study; art, music or film-making; and travel.

Students seeking experiential learning credit should see the departmental advisor for an initial interview. The representative contacted may advise the student whether the learning described may be creditable to college level learning and whether the learning may be verified through testing, observation, or a portfolio format. The advisor will assist the student in identifying learning that deserves college credit and in choosing a method of evaluation, such as: challenge exam, interview, portfolio, product, written recommendation, College-Level Examination Program (CLEP), or The Armed Services Guide to Educational Experiences.

A one-semester hour course entitled ENG 166: Portfolio Development, mentored by the director of ELP, will enable students to assemble materials that formalize and document the request for credit. Students must be admitted to the College to make formal application for experiential learning credits.

Credits will be awarded on a satisfactory basis (S) but will not be recorded on the transcript until the student has completed 12 s.h. in residence. These credits are excluded in determining a student's eligibility for grants and financial aid. For additional information, consult the Academic Policies section.

Independent Study

Students may earn credits for independent study with the approval of the Division Dean and a faculty member of the department in which the study is pursued. Independent study provides the option for in depth investigation of a subject which is of particular interest to the student.

Cooperative Education (Co-op)

Madonna College students can earn college 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.

The following majors require cooperative education coursework: journalism and public relations, criminal justice and security, occupational safety and health, home economics and family life, computer science, fashion merchandising, computer information systems and international business.

Madonna College's Office of Cooperative Education coordinates the student placement in area business, industry, government and service agencies. Application deadlines are:

Term I, Fall: June 1st

Term II, Winter: October 1st

Term III, Spring/Summer: February 1st

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

Career Education

Madonna College's model Career Resource Center (CRC) offers substantial 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 Support Services section.

Continuing Education

Each term Madonna College offers a wide variety of options for the life-long learner. 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.

Telecourses

Televised courses over cable and broadcast television allow students to pursue college coursework right in their homes. Normal registration procedures apply to telecourses.

Catholic College Consortium

Madonna College is a member of the Detroit Area Consortium of Catholic Colleges. Marygrove, Mercy, Sacred Heart Seminary, St. Mary of Orchard Lake College and the University of Detroit are participating institutions.

Full-time students of consortium institutions may take one or more courses during the academic year at participating institutions. Part-time students may not register for more than 12 s.h. of consortium credit during his or her undergraduate career.

The student registers with Madonna College's Registrar and with the Registrar of the consortium college. Tuition is paid to Madonna College. For exact procedures, see the College Policies section.

Guest Students

Madonna College uses the Michigan Uniform Undergraduate Guest application. This assists visiting students in earning credits to be applied toward a program at their home institution. Madonna College students may secure a guest pass only when the course is not taught that academic year at Madonna College 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 College. 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. The guest pass is good for only one term.

Study Abroad

Study abroad may be arranged during the college term. Interested students should contact the Academic Vice President's Office.

ADMISSIONS

Madonna College welcomes students of various ages and economic, racial, experiential and religious backgrounds. Admission is granted to all qualified applicants who can attain their educational goals within the philosophy and academic framework of the College.

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 College.

Application Procedure

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 Admissions Office:

First-Time College Applicants:

- Official high school transcript or General Education Development (GED) test results.
- ACT College Report indicating results of the ACT or Enhanced ACT Assessment for all current high school students or recent high school graduates. Madonna College must be the direct recipient of this report. The ACT code number for Madonna College is 2022. Scholastic Aptitude Test (SAT) or other results are optional.

Transfer Applicants:

- Official transcript(s) from the college(s) attended.
- Official high school transcript if less than 12 semester hours of transferable credits or quarter hour equivalent have been earned from prior college(s).

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

Notification of Admission

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 Admissions Office. Exceptions to this practice

involve those programs of limited access, which may, in some cases, result in a delay of notification. Following notification of college admission, students are required to meet with their designated advisor to design a plan of study. Students must meet the requirements of the Bulletin in effect at the term for which they are formally admitted or readmitted.

Regular Admission

Regular admission status is granted to:

- high school graduates who have earned a minimum cumulative high school grade point average of 2.5 on a 4-point scale and whose ACT or Enhanced ACT results indicate sufficient potential to succeed.
- transfer applicants who have earned a minimum cumulative college grade point average of 2.0 on a 4-point scale.

Specific programs and departments within the College may have higher and/or additional requirements for admission into that program or department. Students should consult the Plans of Study portion of this 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. These students shall be assigned to a designated advisor who will prescribe an individual program of instruction and academic support services for them and determine when they shall be assigned to their major faculty advisor.

Nonadmitted Students/Nondegree Seeking Students

Nonadmitted degree and/or credential seeking undergraduate and postdegree students complete a "Permit to Register" form and pay a \$15 processing fee. They receive an application form and are requested to complete the admission process within eight weeks. One additional permit is allowed for the next term of attendance for a second \$15 fee. Credits earned while attending as a nonadmitted student may or may not be applicable towards a degree at a later date.

Nondegree seeking students complete a "Permit to Register" form and pay a \$15 processing fee each term of their attendance. The "Permit to Register" will include a disclaimer: Credits earned while attending as a nondegree seeking student may or may not be applicable towards a degree at a later date.

Readmission

Students admitted to Madonna College who have not been in attendance for two years at the College or who have transferred meanwhile to another

college are required to file an application for readmission. Baccalaureate graduates of Madonna College returning for additional study are not required to apply for readmission, but must reactivate their file with the Registrar's Office.

Students who are readmitted to the College must meet the degree requirements of the Bulletin which is in effect at the time of readmission. Credits earned in certain fields more than ten years prior to admission or readmission may not be valid as degree credits.

The files of applicants who are admitted for a specific term, but who do not register, are held in the Admissions Office for a period of two years following that term. After this period, nonregistered applicants must apply for readmission.

Incomplete files of nonregistered applicants are not kept beyond two years.

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 College. 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.

Superior senior high school students may enroll in one or more lower division courses at Madonna College. It is thus possible for the student to earn college credits while concurrently completing high school graduation requirements.

Transfer Students

Students transferring to Madonna College 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. The Madonna College grading system is used to determine their grade point average.

Transfer students pursuing their first baccalaureate degree at Madonna College must complete the requirements for General Education and the desired major. The last 30 semester hours of the 120 required for the bachelor degree must be earned at Madonna College including electives, if necessary. Only those courses completed at an accredited institution with a grade of C or better will be considered for transfer credit. Grades themselves are not transferable.

Students pursuing a second baccalaureate degree at Madonna College must complete the requirements for General Education and the desired major. They must earn at least 30 semester hours at Madonna College including electives, if necessary. Transfer students pursuing an associate degree at Madonna College must complete the requirements for General Education and the desired major. The last 15 semester hours of the 60 required for the associate degree must be earned at Madonna College.

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

All adjustments, additions, and corrections to transfer credits must be completed within the term following the student's admission into the College.

Graduates with Associate Degrees/Satisfying the MACRAO Transfer Agreement

Madonna College provides educational opportunities to graduates of community colleges who have earned associate degrees and are interested in pursuing bachelor degrees. A student may transfer up to 64 semester hours or the equivalent from a two-year college into a baccalaureate program at Madonna College. The associate of arts or science degree from a community college is recognized as fulfilling the two-year General Education requirements of the College, provided that the transfer courses conform with the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) agreement. Students who satisfy the MACRAO agreement may still be required to fulfill additional General Education requirements in religious studies, literature, computer literacy, social sciences or other areas when pursuing a baccalaureate degree.

Contractual Agreements

Madonna College has a number of contractual agreements with area institutions. Upon admission to Madonna College, students who have completed an approved program of study are able to obtain transfer credits which can be applied towards the requirements of specific majors within the College or, often, used as general electives within other programs of study. Specific guidelines and requirements vary. Interested students should consult the information below. Additional information can be obtained through the Admissions Office.

Academy of Health Careers: Graduates of the Academy of Health Careers who have completed the Pharmacy Technician program and who are currently certified Pharmacy Technicians by the Michigan Pharmacists Association may transfer a maximum of 20 credit hours. These credits may be used towards the Associate in Applied Science degree in Pharmacy Technician, the Bachelor of Science degree with a major in Allied Health Management, the Bachelor of Science degree with a major in Medical Technology or as general electives towards another major.

Carnegie Institute: Graduates of the Carnegie Institute who have completed the Medical Assisting program and are certified medical assistants through American Association of Medical Assistants are granted up to 24 semester hours of credit toward a bachelor of science degree with a major in allied health management. Credit will be transcribed after a student has successfully completed 12 semester hours of coursework at Madonna College. Carnegie Institute credit cannot be more than seven years old at the time of transfer.

Center for Banking Education (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 toward a major in financial administration for a bachelor of science degree at Madonna College.

Control Data Institute: Control Data Institute graduates of the computer programming and the computer technology programs are granted 30 semester hours of credit toward a bachelor of science degree with a major in computer information systems. (Selected courses may apply toward a computer science major.) These 30 semester hours will be recognized as the major concentration for the associate of science degree in computer technology. To complete the requirements for this degree, the student must complete an additional 30-32 semester hours in General Education at Madonna College.

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 a major in Emergency Medical Technology, as electives in the Fire Science program or as general electives towards another degree program at Madonna College. Credit will be transcribed after a student has successfully completed 12 semester hours of coursework at Madonna College.

Krainz Woods Academy: Krainz Woods Academy graduates who have completed the Medical Laboratory Technician program and are certified through American Medical Technologist or National Certification Agency are granted up to 41 semester hours of credit toward a bachelor of science degree with a major in allied health management. Credit will be transcribed after a student has successfully completed 12 semester hours of coursework at Madonna College. Krainz Woods Academy credit cannot be more than seven years old at the time of transfer.

Michigan Fire Fighters Training Council: Graduates of the Michigan Fire Fighters Training Council and/or Fire Inspector School programs may apply for up to 12 semester hours of credit toward an associate or bachelor of science degree with a major in fire science or with a group major in occupational safety, health, and fire science. Students apply for these credits through the director of the fire science program after having successfully completed 12 semester hours of coursework at Madonna College.

Michigan Paraprofessional Training Institute: Graduates of the Michigan Paraprofessional Training Institute (MPTI) Medical Laboratory Technician program or the Medical Assistant program are granted 18-32 semester hours of credit toward a bachelor of science degree in allied health management. MPTI graduates must be certified by respective bodies: MLT - American Medical Technologist or National Certification Agency; MA - Registered

Medical Assistant or American Association of Medical Assistants. Credit will be transcribed after a student has successfully completed 12 semester hours of coursework at Madonna College. MPTI credit cannot be more than seven years old at the time of transfer.

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 College. 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 College.

MoTech Automotive Education Center: MoTech students who have completed the program in Auto Mechanics or Auto Collision Repair will be granted a maximum of 30 semester hours of credit towards an Associate of Applied Science degree or a Bachelor of Applied Science degree in either Auto Mechanics or Auto Collision Repair, or as elective credit towards another degree program at Madonna College. MoTech students must successfully complete 12 semester hours of coursework at Madonna College in order to have credit transcribed.

National Education Center (formerly 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 Division of Science and Technology. Graduates may also choose to have these credits apply toward other degrees. Credits will be transcribed after having successfully completed 12 semester hours of coursework at Madonna College.

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 communication arts major. Students apply to the communication arts department for the credit after having successfully completed 12 semester hours of coursework at Madonna College.

Advanced Standing for Nontraditional Students

Madonna College believes that higher education should be available to persons throughout their lifetime and not just immediately after high school graduation. The College 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, housewives 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, fire protection and occupational safety, health and social work, may receive credit for on-the-job field experience and for related knowledge.

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

International Students

International students are encouraged to apply for admission to the College at least one year before enrolling in classes. In addition to fulfilling the admission requirements previously listed, these students must submit:

1. Official results of the Test of English as a Foreign Language (TOEFL) or of an equivalent English proficiency test.
2. A statement signed by the applicant's parent or guardian assuring full financial responsibility for the student.

Applicants to Madonna College who are graduates of a foreign high school must have academic preparation equivalent to that required for eligible U.S. high school graduates. Following notification of admission, the student must submit an advance enrollment deposit of \$1,500. The Director of Admissions will issue the I-20 following receipt of the deposit.

TUITION AND FEES

Madonna College believes that higher education should be affordable to all who seek it. The following schedule is in effect for the fall Term I, 1990.

Tuition Rates

U.S. Residents	Per Semester Hour
Regular and Audit	\$ 122
Nursing	\$ 150
Graduate	\$ 160
Credit by Exam	\$ 40
Testing Fee	\$ 25 per evaluation/exam

International Student Rate

Tuition for International Students on a temporary visa is 30 percent greater than the current regular tuition rates, excluding Credit by Examination. Students with a Permanent Alien/Resident Card prior to the start of classes are exempt from the International Student Rates.

Fees

Madonna College reserves the right to change fees without advance notice. Inquiries relating to fees should be referred to the Student Billing Department in writing or by calling (313) 591-5034.

General Fees

Admission Application (Non-refundable)\$ 25

Advance Enrollment Deposits

Nursing Students\$ 50

This fee is required of all students entering the nursing program to guarantee the student's intent to enroll at Madonna College. The deposit is applied to the amount due at registration; it is non-refundable in the event of the student's withdrawal.

Foreign Students.....\$1,500

This deposit is refunded to paying party when the student is no longer enrolled in Madonna College's programs.

Course Fees (Non-refundable): Required course fees are published in the class schedule each term.

Graduation Fee: A non-refundable graduation fee of \$30 is charged each student who applies for graduation. It is assessed only once for each degree. Students who file an Application for Graduation pay the \$30 fee at the Student Billing Office at that time. The application form must be completed, signed by the student's advisor and presented to the Registrar's Office. See College Calendar for deadlines. Students who fail to file by the appropriate deadlines will be assessed an additional penalty of \$10.

Late Payment Penalty	
First Installment	\$10
Second Installment	5% of balance due up to maximum of \$50
Parking	Free in all lots
Registration	
Change in Registration	\$15 each time
Mail-in/On-campus registration	\$30 per term
Open registration	
New students	\$30 per term
Returning students*	\$45 per term
Permit to register for non-admitted students	\$15 per term
Record Replacement	\$ 5 per term
Removal of Incomplete	\$10
Replacement of Student I.D. card	\$ 3
Returned check	\$10
Transcript of credits	
Issued to Student (in extenuating circumstances only)	\$ 5
Mailed	\$ 4

*A returning student is defined as a student currently enrolled and/or enrolled in either of the two previous terms.

Residence Hall Fees

Room (rented per term)	
Semi-Private	\$ 1,360 per year/\$ 680 per term
Private	\$ 1,674 per year/\$ 837 per term
Per Night	
Registered Guest of Student	\$ 8 per night
Other (without linens)	\$ 12 per night
(with linens)	\$ 15 per night
Room Reservation (non-refundable but applicable to room rent)	\$ 50

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

Board

21 Meal Plan	\$ 1,590 per year/\$ 795 per term
15 Meal Plan	\$ 1,530 per year/\$ 765 per term

Students living on campus are required to take their meals in the College Dining Hall. No refund will be made on the board fee because of contractual arrangements relating to service in the Dining Hall. Occasional or week-end absences are non-refundable.

Incidentals

Key Replacement	\$ 5
Room Damage Deposit	\$ 75

Checks should be made payable to MADONNA COLLEGE.

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

Late Payment Penalty	
First Installment	\$10
Second Installment	5% of balance due up to maximum of \$50
Parking	Free in all lots
Registration	
Change in Registration	\$15 each time
Mail-in/On-campus registration	\$30 per term
Open registration	
New students	\$30 per term
Returning students*	\$45 per term
Permit to register for non-admitted students	\$15 per term
Record Replacement	\$ 5 per term
Removal of Incomplete	\$10
Replacement of Student I.D. card	\$ 3
Returned check	\$10
Transcript of credits	
Issued to Student (in extenuating circumstances only)	\$ 5
Mailed	\$ 4

*A returning student is defined as a student currently enrolled and/or enrolled in either of the two previous terms.

Residence Hall Fees

Room (rented per term)

Semi-Private	\$ 1,360 per year/\$ 680 per term
Private	\$ 1,674 per year/\$ 837 per term
Per Night	
Registered Guest of Student	\$ 8 per night
Other (without linens)	\$ 12 per night
(with linens)	\$ 15 per night

Room Reservation (non-refundable but applicable to room rent) \$ 50

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

Board

21 Meal Plan	\$ 1,590 per year/\$ 795 per term
15 Meal Plan	\$ 1,530 per year/\$ 765 per term

Students living on campus are required to take their meals in the College Dining Hall. No refund will be made on the board fee because of contractual arrangements relating to service in the Dining Hall. Occasional or week-end absences are non-refundable.

Incidentals

Key Replacement	\$ 5
Room Damage Deposit	\$ 75

Checks should be made payable to MADONNA COLLEGE.

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

STUDENT PAYMENT POLICIES

Students may register for courses when past due financial obligations have been met. Registration fees are due and payable at the time of registration at the Student Billing Office.

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

Payment Plans

1. Tuition and fees are payable in advance in full at the time billed. Students may pay by cash (U.S. currency), check, money order or credit card (Mastercard or Visa). Payment may be made by telephone for credit card holders. Payment may also be made by mail. However, the College is not responsible for lost or delayed mail. The assessment of registration adjustment and late payment charges will be determined by the postmark date.
2. Students who do not pay in full in advance automatically choose the deferred payment plan of two equal installments. The initial payment is due approximately two weeks prior to the beginning of each term. The balance of tuition and fees is due six weeks after the beginning of the term. The Class Schedule Bulletin carries the exact due dates for each term. 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 College.

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 after the established billing close date, or add additional courses to their initial registration, will be required to pay the minimum advance payment of 50 percent before registration forms are processed. Students registering for non-credit or CEU will be required to pay 100 percent of the charges at the time of registration.

3. Payment may be made through the direct crediting of a financial aid award to the student's account, provided the award is sufficient to cover the required advanced minimum payment. This plan excludes college work-study awards. Students with an insufficient amount of financial aid to cover the minimum advance payment of 50 percent 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 of 50 percent 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: guaranteed loans, veteran benefits, and special department awards.

4. Students whose employers will be invoiced for tuition and expenses may submit a billing authorization form prior to the billing due date. Failure to provide the Student Billing Office with your employer authorization form by the due date may result in additional penalties.

Address Change

It is the responsibility of the student to inform the College of any address changes by completing a change of address form in the Student Billing Office. Mail returned to the College because of an address change will not defer the assessment of program adjustments and late payment charges.

Billing Error or Dispute

Errors or disputes about a bill must be submitted in writing within 30 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 that the problem is resolved. Send billing inquiries to Student Billing Office, Madonna College, 36600 Schoolcraft Road, Livonia, Michigan 48150.

Penalties

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 50 percent minimum payment. At the end of add/drop week, in order to reinstate the registration, the student is required to pay a \$40 in addition to the 50 percent of the term's charges. If the student does not plan to attend, he/she 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 \$10 penalty per check. Late penalty charges will be assessed when applicable.

3. Change in Registration Fee:

a.) Complete Drop: A complete drop of all courses prior to the first day of the term is not assessed a fee. Thereafter, a complete drop of all courses is assessed \$15.

b.) Add/Drop Change of Courses: Each Add/Drop change form processed to alter an existing registration is assessed \$15. 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. No change in registration fee is assessed for changes required as a result of College actions.

4. Open Registration Fee: Returning students who do not complete registration on the days designated in the Schedule of Classes will be assessed a fee of \$45. This includes the \$30 registration fee. Additional penalties may be assessed dependent upon the actual date of registration.

5. Record Replacement Fee: Requests to duplicate billing records to verify payments are assessed a \$5 per term replacement fee.

Refunds/Credit Adjustments

Students are required to officially drop or withdraw from classes in person or in writing through the Registrar's Office. The date the Registrar's Office receives the request determines the amount of any adjustment of tuition after classes have begun.

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

Tuition credit adjustments are made according to the following schedule:

FULL TERM:

Add/Drop Week	100% minus \$15 adjustment fee
Second week of term	75%
Third week of term	50%
Fourth week of term	25%
No credit past the fourth week.	

CLASSES, WORKSHOPS & SEMINARS LESS THAN FULL TERM:

	No. of class sessions	
	1 - 4	5 - 8
First class meeting	100%	100%
Second class meeting	25%	50%
Third class meeting	0%	25%
No credit past the third class meeting.		

NOTE: Students unable to complete the withdrawal process within the designated time periods, or those compelled to withdraw completely at any time due to circumstances beyond their control, may appeal the credit adjustment decision in writing to the Business Manager.

REFUND vs. CREDITS

Students who receive financial aid and have a credit balance on their account after all financial aid is posted to their account must make a written request to the Student Billing Office for a refund check. These refunds are processed for payment according to the following schedule:

TERM	REFUND DATE
Fall	After 6th week of classes
Winter	After 6th week of classes
Spring/Summer	After 4th week of classes

Students who do not receive financial aid and have a credit balance on their account can make a written request to the Student Billing Office at anytime for a refund check.

Students who have a credit balance on their account at the end of the term for which they are currently enrolled will automatically receive a refund only if they do not register for classes during the next fall or winter term.

A credit balance of \$1.00 or less is not credited to the student's account during any subsequent term of enrollment and is only refundable upon written request of the student.

In all cases, students should allow two weeks for processing and mailing before receipt of their refund check.

All fees incurred during the term are not refundable.

FINANCIAL AID

Madonna College 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 his/her 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 Pell Grant (formerly Basic Educational Opportunity Grant), Supplemental Educational Opportunity Grant, Michigan Tuition Grant, Michigan Competitive Scholarship, Perkins (Direct) Student Loan, Nursing Student Loan, Stafford Student Loan (formerly Guaranteed Student Loan) and College 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. 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 2.00. In addition, the full-time student must successfully complete a minimum of 20 s.h. per

academic year. Part-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, PT) changes from one term to the next.

A student who does not meet the criteria of "satisfactory progress" will be placed on financial aid probation the following term he/she enrolls.

Failure to make satisfactory progress during the probation term will result in dismissal from the College 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 Life.

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 Life.

4. The student must not be in default on a student loan or owe a refund on a student grant.
5. The student must sign a Certification of Drug Free Status form (Pell Grant applicants only).
6. The student must sign a Statement of Educational Purpose/Registration Compliance.
7. The student must have demonstrated financial need.

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

Application Procedure

To apply for the Pell (formerly Basic Educational Opportunity) Grant, College Work Study, Perkins (Direct) Student Loan, Nursing Student Loan, Supplemental Educational Opportunity Grant, Michigan Tuition Grant and Michigan Competitive Scholarship, Adult Part-Time Grant, or Stafford Student Loan (formerly Guaranteed Student Loan), a student must:

1. Complete a Madonna College Financial Aid Application, sign it, and return it to the Madonna College Financial Aid Office.
2. Complete a Financial Aid Form (FAF) which is available from high schools, libraries and the Madonna College Financial Aid Office. Send this form along with the appropriate fee to the College Scholarship Service, Princeton, New Jersey 08541.

3. Students whose applications are selected for verification may be required to provide additional supportive documentation (tax forms, social security benefit statements, etc.).
4. All students who attended another college or university prior to coming to Madonna College MUST request that those institutions previously attended complete a Financial Aid Transcript and send it to the Madonna College Financial Aid Office. These forms are available from the Madonna College Financial Aid Office.
5. Students who are not U.S. Citizens or U.S. Nationals MUST provide a copy of their I-151 or I-551 (Alien Registration Receipt Card) or I-94 with proper endorsement.
6. Applications should be submitted as early as possible each year. To ensure full consideration students are encouraged to apply as follows:

Fall Term: February 15th

Winter Term: September 1st

Spring/Summer Term: January 1st

NOTE: Students need to apply once each academic year.

7. Procedures for students applying for Madonna College Scholarships and Endowment Scholarships:
 - Fulfill requirements for admission to Madonna College.
 - Complete Madonna College Scholarship Application by March 1.
 - Scholarship/Award winners will be notified by April 15.

Federal Aid Programs

1. PELL GRANTS (BASIC GRANTS): Undergraduate students from limited income families are entitled to up to \$2,300 per year in federal Pell Grant aid (formerly called Basic Educational Opportunity Grants), on the basis of financial need. The grants can be renewed annually until the student completes an undergraduate degree or five years of full-time study. Students may apply for the Pell Grant by marking the appropriate boxes on the financial aid application.
2. SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS: The federally funded Supplemental Educational Opportunity Grants may be awarded to undergraduate students whose financial aid applications demonstrate need. The maximum grant allowed for a student is \$1,000 a year. These grants may be renewed each year that need is shown and funds are available until the student completes an undergraduate degree.

3. COLLEGE WORK STUDY: The College Work Study Program encourages employment for financially needy undergraduate and graduate college students in jobs on campus. These jobs are secured through the College Financial Aid Office.

4. STAFFORD STUDENT LOANS: Students (Michigan residents and non-residents) enrolled in eligible colleges can secure low-interest student loans from participating commercial financial institutions through the Stafford Guaranteed Student Loan Program. The necessary applications are available at commercial financial institutions.

The annual percentage rate when repayment begins is 8* percent (8%) simple interest. Undergraduate students who are dependent on their parents may borrow up to \$2,625 on grade levels 1 and 2; \$4,000 on grade levels 3, 4, and 5 each year for a maximum total of \$17,250. Undergraduate independent students and graduate students may also secure Stafford Student Loans. Graduate students may also qualify for up to \$7,500 per academic year for a total of \$54,750.

*NOTE: Interest rates change based on T-Bill rates. Check with the Financial Aid Office for current rates. More detailed information on Michigan aid programs is available from the Financial Aid Office.

5. PERKINS (DIRECT) STUDENT LOANS: Up to \$1,500 per year is available to students who demonstrate financial need. Repayment begins six months after graduation or reduction of class hours to less than half-time and may extend over a ten year period. Interest charges of five percent (5%) begin at the start of the repayment period.

6. NURSING STUDENT LOANS: Up to \$1,500 per year is available to students majoring in nursing who demonstrate financial need. Repayment begins 9 months after graduation or reduction of class hours to less than half-time and may extend over a ten year period. Interest charges of 6 percent (6%) begin at the start of the repayment period.

7. PARENT LOAN FOR UNDERGRADUATE STUDENTS (PLUS): Parents of dependent graduate or undergraduate students may obtain a PLUS to help meet their share of college costs and/or to supplement the Stafford Student Loan. A family income test is NOT a factor in establishing eligibility for the PLUS program as it is with other federal programs. The annual interest rate cannot exceed 12%. Parents may borrow up to \$4,000 annually for each dependent student in college. A minimum monthly payment of \$50 is required.

8. SUPPLEMENTAL LOAN FOR STUDENTS (SLS): Independent or graduate/professional students may borrow up to \$4,000 each year under this program for the express purpose of assisting the student with college expenses.

These loans are normally sought by students who have exhausted their eligibility for other financial aid programs. The annual interest rate cannot exceed 12%. A minimum monthly payment of \$50 is required.

Detailed information regarding current loan amounts, deferment, postponement, cancellation, and repayment provisions for the loans listed above are available upon request from the Financial Aid Office.

Michigan Aid Programs

1. **MICHIGAN TUITION GRANTS:** The Tuition Grant Program provides grants up to \$2,400 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 part-time undergraduate students for up to the equivalent of 10 semesters of study. Graduate students may receive the grants for up to 6 semesters (or equivalent).

2. **MICHIGAN COMPETITIVE SCHOLARSHIPS:** Michigan Competitive Scholarships of up to \$2,400 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 College Aid Programs

1. **GENERAL SCHOLARSHIPS:** To be eligible for General Scholarships and Merit Awards, students must be officially admitted, have a minimum 3.2 GPA, and be enrolled full-time (12 s.h.) unless otherwise noted.

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

Madonna College Athletic Scholarship (1982): awarded to students who demonstrate outstanding athletic and scholastic ability.

William J. Cameron Scholarship (1988).

Charles and Patricia Derry Video Communications Scholarship (1989): awarded to a Video Communications major.

Mother Mary DeSales Scholarship (1947): awarded to a graduate of Ladywood High School.

Felician-Franciscan Scholarship (1982): awarded to a Felician Sister recommended by the Director of Education of the Livonia Province or a postulant approved by the Congregation. Preference will be given to a candidate who is enrolled full-time.

Fortieth Anniversary Scholarship (1987).

Sister Mary Humilitas **Gersztyn Scholarship (1988):** awarded to a nursing major.

Handicapped Student Scholarship (1982): interested students should contact the Madonna College Counselor for the Handicapped for more detailed information.

Anton Jakobs Scholarship (1968): awarded to community college graduates who transfer to Madonna College. Available to full-time and part-time students.

Rudolph Kleinert Scholarship (1968): awarded to Community College graduates who transfer to Madonna College.

Knights of Columbus Scholarship/George F. Monaghan Council 2690 (1970): awarded to a hearing impaired student.

Carla L. Knudsen Scholarship (1986): awarded to a nursing major.

Sister Mary Hugoline **Konkel Scholarship (1984):** awarded to a graduate of a Catholic High School.

Kowalski Sausage Company Scholarship (1967).

The Honorable Edward H. **McNamara Scholarship (1972):** awarded to a graduate of a Livonia area public high school.

Minority Student Scholarship (1982): interested students should contact the Financial Aid Office for more detailed information.

Andrew G. Nagorski Scholarship (1988): awarded to a graduate of Trenton High School.

Non-Traditional Student Scholarship (1982): interested students should contact the Financial Aid office for more detailed information. Available to full-time and part-time students.

Sister Mary Joela **Patelski Scholarship (1984):** awarded to a graduate of a Catholic High School.

Prybys Family Scholarship (1989).

Father John **Quinn Scholarship in Memory of George and Mary Quinn (1979).**

St. Mary Hospital Scholarship (1969): awarded to a nursing major.

Sister Mary Danatha **Suchyta Scholarship (1976):** awarded to a graduate of a Catholic High School.

Frank J. and Josephine **Svoboda** Scholarship (1962): awarded to a student pursuing Art or Journalism.

Nancy E. **Tanger** Scholarship (1969): awarded to a prospective teacher.

2. **MADONNA COLLEGE MERIT AWARDS:** Each year merit awards in the amount of \$1,000 each (renewable each year for a maximum total of \$4,000) are awarded to outstanding incoming students by the Admissions Office. To retain the award, students must maintain a cumulative GPA of 3.25 at Madonna College.
3. **MADONNA COLLEGE CATHOLIC STUDENT AWARDS:** Each year awards in the amount of \$800 each (renewable each year for a maximum total of \$3,200) are awarded to incoming freshmen. The award is for an active Catholic who wishes to combine a strong quality education with additional Catholic leadership training and experience. Recipients must possess a minimum grade point average of 3.0., and must maintain a minimum cumulative G.P.A. of 3.0. at Madonna College to retain the award.
4. **ENDOWMENT SCHOLARSHIPS:** To be eligible for Madonna College Endowment Scholarships, students must be officially admitted, have a minimum 3.2 GPA, and be enrolled full-time (12 s.h.) unless otherwise noted.

Bishop Moses B. **Anderson** Scholarship, S.S.E. Scholarship established in the memory of Frank Hayden (1988): awarded to African students or American students of African heritage.

Viola R. & Thomas G. **Bosco** Scholarship (1987).

Eva L. **Bourgeois** and Mary Hall Memorial Scholarship (1986). Established by Lawrence Bourgeois.

Michael & Sophia **Brocki** Scholarship (1984).

Kelleigh **Brown** Scholarship (1989): awarded to a student from the downriver community who is pursuing a degree in nursing.

John J. **Carlo** Scholarship (1987): awarded to a nursing major.

Angelo **DiPonio** Scholarship (1989).

Felician Sisters Scholarship (1987): awarded to members of the Felician Community in the Presentation Province, either for candidates or professed sisters.

Sister Mary Lauriana and Joseph **Gruszczynski** Family Scholarship (1977). Available to full-time and part-time students.

William Randolph **Hearst** Scholarship (1987): awarded to students pursuing service oriented degree programs.

Charles and Frances **Kazul** Scholarship (1989): awarded to a needy student.

Knight Foundation, Inc. Scholarship (1988): awarded to hearing-impaired students.

Knights of Columbus/Michigan State Council Scholarship (1988): awarded to prospective teachers of retarded, emotionally impaired and learning disabled children.

Richard Koch Scholarship (1980): awarded to a criminal justice major.

Theodore and Eleanor Konarski Scholarship (1984).

Sister Mary Hospicia and Reverend Edward J. Kubiak Scholarship (1986).

Anna and Stanley Kucharski Scholarship (1984).

Sister Mary Chester Kucharski Scholarship (1983).

William and Martha Lake Scholarship (1983): awarded to a registered nurse.

Latinos de Livonia Scholarship/Grant Award (1989): awarded to a student of Hispanic heritage. Minimum 2.5 G.P.A., Grant; 3.2 G.P.A., Scholarship.

Dr. Bernard and Meta Landuyt Scholarship (1986): awarded to a business administration major.

Lions/Lioness Club Scholarship (1979): awarded to hearing impaired students.

Livonia Jaycees Scholarship Endowment Fund (1989): awarded to junior or senior students.

Madonna College Alumni Association Scholarship (1986): awarded to the son or daughter of a Madonna College graduate.

Sister Colleen Morris Scholarship (1979): awarded to a gerontology major.

Sister Mary Berarda Osinski Scholarship (1983): awarded to a child development major. Established by Thomas S. Monaghan.

Mary Pitrone Richards Scholarship (1977): awarded to a junior or senior (basic) student who is pursuing a baccalaureate degree in nursing. The student must show financial need, be of good character and dedicated to the art of nursing.

Riggs Scholarship (1977): awarded to a hearing impaired student.

The Rozek Family Scholarship/Grant Award (1989): awarded to a student of Hispanic heritage. Minimum 2.5 G.P.A., Grant; 3.2 G.P.A., Scholarship.

Sister Mary Bridget Roznowski Scholarship (1986): awarded to a home economics major.

Sage Foundation Scholarship (1988).

Sister Mary Immaculata Sryniawski Scholarship (1989): awarded to a graduate of a Catholic high school.

Emmet E. and Frances Tracy Scholarship (1987).

Lucille A. Weber Memorial Scholarship: awarded to a gerontology major.

John and Emily **Wysolmierski** Scholarship (1988).

George and Caroline **Zgoda** Family Scholarship (1980).

Sister Mary Angelis **Zgoda** Scholarship (1985).

5. **ADDITIONAL SCHOLARSHIPS:**

Winifred Maybury **Berkery** Trust Scholarships (1979).

Besser Foundation Scholarships (1983): awarded to a graduate of Alpena High School or a transfer student from Alpena Community College.

Chrysler Minority Scholarships (1990).

DeSerrano Educational Foundation Scholarships: awarded to qualified students.

Livonia Heart Fund/Sharon **Jahns** Scholarship (1984): awarded to a graduate of a Livonia high school or a Livonia resident who is a graduate of a private high school. Restricted to students who major in a health related field of study.

Livonia Heart Fund/Charles **Ledgerwood** Scholarship (1985): awarded to a graduate of a Livonia high school or a Livonia resident who is a graduate of a private high school.

Maccabees Insurance Company Scholarship (1982): awarded to a Madonna College junior or senior who has demonstrated academic excellence.

McNamara Charity Fund (1989): awarded to students of financial need and well deserving.

Edward C. and Hazel L. **Stephenson** Foundation Scholarships: awarded to qualified students.

Unisys Scholarships (1988): awarded to a Madonna College student in alternate years beginning in 1989-90.

Mr. & Mrs. Rudolph **Vaquera** Scholarship (1987): \$100 awarded annually until 1991-92 to a Hispanic student.

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

6. **OTHER:**

Madonna College **Athletic Grant**: awarded to a full-time student with a minimum cumulative GPA of 2.5 and demonstrated athletic ability.

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 from government agencies for students who are in specific kinds of situations. Some of the major sources of such funds are:

1. **VETERAN'S BENEFITS:** Veteran's Benefits are educational benefits for veterans and dependents of certain deceased/disabled veterans. Contact the Financial Aid Office or the Veterans Administration under U.S. Government telephone directory listing.
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. **BUREAU OF INDIAN AFFAIRS:** The Bureau of Indian Affairs can provide information about educational benefits for students of at least one-quarter American Indian descent. They can be contacted at Michigan Inter-Tribal Education Association, Keweenaw Bay Tribal Center, Baraga, Michigan 49908.
4. **EMPLOYEE TUITION REIMBURSEMENT PROGRAM:** Many employers will pay tuition for their employees who successfully complete coursework at Madonna College. For more details check with the Personnel Office at your place of employment.

More detailed information on all financial aid programs is available from the Madonna College Financial Aid Office (313) 591-5036. All students are encouraged to contact the Financial Aid Office for further information and assistance in applying for financial aid.

STUDENT LIFE

Madonna College recognizes that quality college life is not limited to educational opportunities alone. Diverse and stimulating extracurricular activities promote individual growth and interest, making college far more than attending classes. The following opportunities exist for all our students: young, older, men, women, handicapped, commuter and resident.

Student Clubs & Organizations

Madonna College students have the opportunity to express their interests and develop leadership skills by committing to club memberships and campus chapter organizations. Active campus organizations include:

Allied Health Management Club: Futures III
American Chemical Society
American Criminal Justice Association
Athletic Club
Madonna College Business Professional Association
Data Processing Management Association
Fashion Merchandising Professional Association
Gerontology Association
Health Managers Organization
Madonna College Nursing Student Association
Multicultural Student Organization
Music Education National Conference Student Chapter (MENC)
Program Board
Silent Voice Club
Social Work Student Association
Student Government
Student Teachers Association

Student Honors Societies

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

Delta Mu Delta (Business Honors Society)
Kappa Gamma Pi (Undergraduate Honors Society)
Phi Alpha (Social Work Honors Society)
Sigma Theta Tau (Nursing Honors Society)

Student Government

Annual elections are held for the Madonna College Student Government, which promotes the interests and welfare of the student body. Student Government coordinates the campus clubs and organizations, whose presidents are voting members. Special events such as dances, community projects, and participation in other College activities are Student Government sponsored.

Student Representation: College Committees

Students are represented on most standing committees of the faculty and the Board of Trustees, including:

Faculty Standing

Admissions, Financial Aid & Marketing
Campus Ministry
Cultural Affairs
Curriculum & Educational Policy
Graduate Studies
Library
Teacher Education

Board of Trustees

Academic Affairs
Physical Plant
Public Relations & Development
Student Development

Cultural Affairs

An essential dimension of a liberal arts education is the opportunity for artistic expression and appreciation. Madonna College 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 College Chorale, open to all students and community members, offer opportunities for performing arts expression.

The College's Cultural Affairs Committee, with input from students, plan an outstanding series of performing arts. Past events have included nationally-known dance, drama and musical performances, as well as lectures.

The College also sponsors a captioned film series of recent movies for the deaf and hearing impaired. A student publication, Madonna Herald, offers students the opportunity to produce a campus newspaper.

Students who wish to go off campus for cultural activities will find many opportunities in the greater Detroit-Ann Arbor metropolitan areas.

Physical Education

The Physical Education Department offers a variety of classes geared toward the development of good health and fitness. Offerings include aerobics, physical fitness and conditioning, and other seasonal classes. Instruction in sports includes tennis, bowling, and golf. Winter classes include downhill and cross-country skiing.

Athletics

The Madonna College Athletic Department has shown significant growth since its inception. Once a one-sport program that featured women's tennis, the Athletic Department has since developed into a major intercollegiate sports program that offers women's volleyball, men and women's basketball, and men and women's baseball. In addition, the Athletic Department sponsors a dynamic Intramural Program that allows students to enjoy co-ed volleyball, floor hockey, indoor soccer, basketball, tennis, and softball. A special Leisure Activities Program designed for the non-competitive student offers a variety of social activities with chess tournaments, euchre, backgammon, ping-pong championships and movies. The new Wellness Program is for the health-minded individual with emphasis on fitness and conditioning. Aerobics, walking and jogging, diet and nutrition, smoking cessation, relaxation techniques and stress management are among the offerings.

Madonna College is a member of the NAIA (National Association of Intercollegiate Athletics). Madonna College's campus features a regulation-size gymnasium located in the Activities Center which seats up to 700 people. There are four regulation tennis courts with bleachers and outdoor lights as well as outdoor basketball courts. A fitness court features outdoor conditioning. The Activities Center is open to students during posted Open Gym Hours. Locker room facilities are available for men and women.

The Athletic Club, available to all students, promotes school spirit through the sponsorship of the annual 5K (3.1 mile) fun run, sports clinics, and other events. Athletic scholarships and grants are available to students of promising talent. The Athletic Department employs a full-time Athletic Director, an Assistant Director of Intramurals, five part-time coaches and clerical staff.

Campus Ministry

Campus Ministry at Madonna College is an important religious ministry dedicated to the service of individuals and the total College community. As a searching, believing, loving and worshipping community, it is the presence of the Catholic Church on the College campus.

Religious and lay members of Madonna College's Campus Ministry team serve as counselors and spiritual activity coordinators for students of all denominations. 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, a weekly holy hour, Reconciliation services, prayer group meetings, lectures on current issues, annual student retreats and Thanksgiving and Christmas food/clothing drives for the needy.

The College Chapel is located on the ground floor of the Residence Hall. A prayer room is also available for students to spend time in quiet reflection (Room 120, Academic Building).

Food Services

The cafeteria is available on campus in the Residence Hall. Three meals are served daily, except during the vacation periods. A 15 or 21 meal plan is offered to residents who are required to take their meals in the cafeteria. No refund will be made on the board fee because of contractual arrangements relating to service in the cafeteria. Occasional or weekend absences are non-refundable.

The cafeteria is also open to commuter students, staff, and guests of the College. The cafeteria hours are:

Breakfast:	Monday through Friday	7:15-8:15 a.m.
	Saturday & Sunday	8:00-8:30 a.m.
Lunch:	Monday through Friday	12:00-1:00 p.m.
	Saturday & Sunday	12:00-12:30 p.m.
Dinner:	Monday through Friday	5:30-6:30 p.m.
	Saturday & Sunday	5:00-5:30 p.m.

A snackbar is available on the lower level of the Administration Building from 5:00- 7:00 p.m. Monday through Thursday.

Residence Hall

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

Health Services

Health services are available at St. Mary Hospital, which is adjacent to the College at Five Mile and Levan Roads, and also at the St. Mary Hospital Family Medical Centers, located within a five mile radius of the College.

Students are responsible for all medical bills incurred because of sickness or injury on or off campus. Students may apply for medical insurance through Madonna College.

s
p
s-
l.
n
ls
an
a.
fs
n-
he
g
le
st.
of
ns
o
l
s
l

Handicapped & Hearing Impaired Students

Madonna College endeavors to include handicapped students in all aspects of student life, by providing facilities and services for handicapped students. For example, a ramp between the residence and academic buildings and special lavatories in the classroom and gymnasium areas promote access and independence of movement for students. The flat terrain, ramps, elevators, curb cuts, special lavatories and electronic opening doors provide additional ease of movement.

Madonna College has as its stated goal an integrated hearing-deaf community. (See Student Support Services section of this bulletin.)

STUDENT SUPPORT SERVICES

To assure that Madonna College students have opportunities to progress and excel, the College offers extensive support services. Students of various racial, cultural, and ethnic backgrounds, handicapped students, older adults returning to college, veterans and underprepared/provisionally admitted students have access to the following services.

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 Life or a member of the Campus Ministry team for assistance. A brochure of available counseling services is updated each term and available in the Offices of Student Life, Room 109. Referrals to community professionals are made in cases where problem resolution is beyond the realm of College resources.

At Madonna College much emphasis is placed on advising the student in his/her plan of study. Students are expected to meet with their advisors each term. (See Academic Policies section.)

Madonna Academic Performance Program (MAPP)

Located in the Center for Personalized Instruction (CPI), Room E101, the MAPP program assists underprepared students experiencing difficulty in basic skills areas. Tutors are available in specific subject areas as well as in basic reading, writing, mathematics and chemistry.

Students may be admitted to the program by self-referral or referral by a faculty member. The director of the program reviews the student's problem area and prepares a plan for regularly scheduled remediation and subsequent evaluation.

Career Resource Center

The Career Resource Center (CRC), in the Offices of Student Life, Room 109, located on the lower level of the administration wing, is available free of charge to all students of Madonna College. High school students and the general public are offered many of the testing services at minimal cost. The staff of the Admissions Office, Cooperative Education & Placement, Student Life and Student Activities directly assist in career resource activities. Services include simulation of job interviewing situations, on-the-job decision making experiences, preparation of resumes, and review of hiring practices.

Career related information is available through SIGI (System of Interactive Guidance and Information), a computer-based information system for use by individuals to determine career/life goals. SIGI helps individuals determine personal values, interests, abilities, and preferences in making career decisions. The Michigan Occupational Information System (MOIS) on

microfiche, reflects the current state-wide employment and education outlook. Both systems place at the fingertips of the user a wealth of personal, occupational, and institutional information vital to career development.

The CRC is open 8:00 a.m.-7:00 p.m. Monday through Thursday, and 8:00 a.m.-4:30 p.m. on Friday; summer hours are 8:00 a.m.-4:30 p.m. weekdays.

Handicapped/Hearing-Impaired Services

Students with a documented physical handicap are eligible for special support services to assist them in their educational progress. The Office of Educational Support Services (ESS) employs a support team that includes:

Interpreters, proficient in American Sign Language, who interpret upon request for the deaf and hearing-impaired in the classrooms and at other important events.

Notetakers, for students whose disability prevents them from taking notes in their classes.

Counselors, who are trained and sensitive to the needs of special students, and who assist students in making academic and personal adjustments to college life.

While students are ultimately responsible for their own progress, the support team assures that students will have equal access to classroom information.

Funding for students in need of services such as interpreting, notetaking, and tutoring (in basic skills areas) is requested from Vocational Rehabilitation Services where available. If handicapped students are not eligible for governmental rehabilitation funds, the College will provide these services.

Library Services

The present library houses over 109,000 volumes and consists of an open stacks area, a periodical and a reference area. Madonna College recently implemented a fully-automated library management system, utilizing VTLS software, which enables on-line users to search the catalog through public access terminals. The library is also connected with the On-Line Computer Library Center which expands the library resources available to Madonna College students. In addition, library resources include study carrels and reading areas, photocopiers, microfilm and microfiche readers, and audio-visual equipment.

The Library-Media Center houses a large lecture hall, an art exhibit gallery, the College Archives and other related offices and services.

When withdrawing books, students are asked to show a valid, current Madonna College I.D. card.

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

Monday through 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.

Summer library hours and vacation schedules are posted well in advance near the second floor Library entrance. Students are advised to check with the Library for any changes in the hours.

Health Instruction Center

The Health Instruction Center consists of two autotutorial areas and a computer assisted instruction laboratory, with provisions for forty students to view and listen while mastering weekly assignments. A conference section and testing area are also provided. In the practice lab and physical assessment rooms, clinical equipment is available for student practice or faculty-planned simulations. The center maintains evening and Saturday hours for the convenience of students and faculty.

Academic Computer Laboratory

The Academic Computer Laboratory (ACL) provides hands-on experiences for students with computer majors. Also, computer literacy is achieved in many non-computing courses where computers are used to demonstrate the value of a computer in work-settings. Students' assignments are completed on a variety of micro and mid-sized computers.

An IBM 4341 mainframe computer system is available to students in programming courses. An expanding network of terminals provides these advanced students with easy access to high-speed processing power for class assignments. This hands-on experience duplicates many employment situations.

The laboratory is open during posted hours Monday through Saturday, including evenings. Sunday hours are available during Fall and Winter terms. Lab assistants are on duty during posted hours.

COLLEGE POLICIES

Academic Advising & Counseling

Students are assigned faculty advisors who assist them in developing plans of study to meet their professional requirements. An Academic Advising Office is also available to assist students with questions related to the advising process. In addition to the academic advisors, students have access to counselors who assist in promoting personal growth and development and aid them in times of stress and need.

Students are required to meet with their advisors prior to registration to have the program for the term approved. The College assumes no responsibility for a student's program if the student is self-advised. Students are urged to meet with their advisors periodically to discuss academic progress and future plans.

College Bulletin Requirements

Students must meet the requirements of the College Bulletin in effect at the term for which they are formally admitted or readmitted. 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 College Bulletin in effect at the date of the change. The General Education requirements, however, may be in compliance with the College Bulletin in force at the time of admission.

Student Load

The normal credit hour load per semester is sixteen; maximum load without special permission from the Vice President for Student Life 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 100-299 are lower division courses intended primarily for freshmen and sophomores. Juniors and seniors are urged to take upper division courses with number from 300-499.

Students must observe prerequisites set by the College and/or by their specific departments. Since the College 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 College may cancel or substitute any course listed for which there is insufficient registration.**

Registration

To enroll in courses, students must register with the Office of the Registrar. Admitted students may register through the mail or in person according to dates published in the College Calendar. That office also manages registration for consortium, guest, and credit-by-examination.

Currently enrolled students are expected to register on days specified in the College calendar. Students enrolling for the first time may register up to the add/drop period. For workshops and institutes, students may register any time prior to the first session. No registration is permitted during the add/drop period.

Necessary changes in registration, including withdrawal in writing from a course, are made through the Registrar's Office. A service fee is charged for a change in registration. A student who does not withdraw officially, in writing, from a course receives a failing grade of non-credit (NC).

Attendance

Class attendance is required of all students. Repeated absences may result in lowering of grade or loss of credit. The College 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.

Students should report prolonged absences to the Vice President for Student Life.

Change of Address

Students must notify the Registrar of any change(s) in name, home address, and telephone number. A form is provided for this purpose.

Interpretation of Grades

A — Exceptional — 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 — 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 — 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 — 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. It 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.

NC — No Credit — Failure — 0 honor points.

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

S — Satisfactory (Optional Grade: 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 will be granted with a designation of S but without any quality points for the grade. The policies governing such markings are:

- a. The courses for S marking may not be given in courses for the major, minor, or professional programs, unless granted by department chairperson for life-work experiences.
- b. Students may elect the S grade at the Registrar's Office not later than the date specified in the school calendar.
- c. Instructors will issue conventional grades for coursework which will be converted to S on the academic record.
- d. Only grades of C and above will be converted to S. A grade of D is not converted to S.
- e. Unsatisfactory performance in S grade courses is recorded as NC.

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 in the calendar of the College bulletin. Failure to officially withdraw from a course will be recorded as NC, 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.

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; those who fail to meet the attendance requirements will be recorded as W on their transcript.

I — Incomplete

A grade of I automatically becomes NC, a failing grade, if not removed within six weeks after the end of the term. In extenuating circumstances, students must submit a request for extension of this limit in writing to the Registrar's Office which must be approved by the Instructor and the Registrar. Forms are available at the Registrar's Office.

NOTE:

1. Students receiving a grade of D or NC may be permitted to repeat the course once; twice, if approved by the instructor and department.
2. Only a grade of C or better is applicable toward a major, minor, a professional program, or required supportive courses.
3. The College 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.

Examination, Grade Reports, & 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 mailed to each student.

Transcripts are issued within a week after a request is signed by the student. Transcripts for completed coursework will be mailed after all grades have been posted, usually within three weeks of the end of the term. Issuance of the first transcript is free; additional requests for transcripts require a fee. Official transcripts are issued to the student in extenuating circumstances only for an additional fee. (See Tuition & Fees section.)

Scholastic Integrity

All written 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 Grievance Board.

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

Change of Major

Students wishing to change their major do so at the Registrar's Office by completing a form provided for this purpose. Change of major forms must be signed by the student's faculty advisor. Students changing their major

are to meet the requirements for that major from the College Bulletin in effect at the time of change. The General Education requirements, however, may be in compliance with the College 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, legal assistant, nursing, social work, and teacher education.

Dean's List

Full-time students who carry at least 12 semester hours (none by evaluation), maintain a grade point average of 3.5 or better during a term and make satisfactory progress as defined below merit first honors on the Dean's List; 3.25 to 3.49, second honors.

Academic Achievement List

Part-time students who carry not fewer than 6 and not more than 11 semester hours of letter-graded Madonna College credit and who maintain a grade point average of 3.5 or better during the term merit first honors on the Academic Achievement list; 3.25 to 3.49, second honors. The G.P.A. will be computed only upon earned grades of A, B,C,D and NC. S grades and grades from courses taken concurrently at other institutions will be excluded from consideration.

Satisfactory Academic Progress

To be eligible for continued enrollment, the student **MUST** maintain satisfactory academic progress.

Satisfactory progress is based on the following criteria: grade point average and movement toward a degree as measured by course completion. The student must maintain a cumulative GPA of 2.00 or better. Provisionally admitted students are required to maintain a Madonna College GPA of 2.00 or better during their first term, which serves as the probationary term. Provisional status will remain for one calendar year from admission or until the student achieves a 2.0 minimum GPA. In addition, full-time students must successfully complete a minimum of 20 s.h. per academic year.

Part-time students (those enrolled for 6-11 s.h.) must complete a minimum of 10 s.h. per academic year. Students taking 5 s.h. or less must complete one course for each term they are enrolled.

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

More detailed information on Satisfactory Academic Progress is available upon request from the Vice President for Student Life.

Probation/Termination/Reinstatement

A student who does not meet the criteria of satisfactory progress will be placed on probation the following term he/she enrolls. Placement on academic

probation is automatic and applies even if the student states that official notification of probation has not been received from the College. The Coordinator of Academic Advising and Vice President for Student Life notifies students in writing that within the first 30 days of the semester, they are required to have a conference with their assigned academic advisor to review the student's program of classes and individual plans for the semester. The advisor may require further conferences, restrict the student's academic load or stipulate special conditions to help ensure the student's satisfactory progress toward graduation.

Failure to make satisfactory progress during the probation term will result in dismissal from the College. Students who have been terminated for failure to make satisfactory progress and who wish to appeal the termination shall appeal to the Vice President for Student Life. Reinstatement of a student terminated from the college is considered when the student gives evidence of improved circumstances that will ensure successful performance in the next term of enrollment.

A student who has been terminated and is seeking readmission after a lapse of two or more years is required to meet with the Vice President for Student Life and provide documentation of the activities during the dismissal period which supports his or her readiness to resume an academic career at Madonna College. The meeting with the Vice President for Student Life must be held well in advance of the beginning of the semester for which readmission is desired and no later than seven calendar days prior to the first day of classes of a semester. If any courses have been completed at another collegiate institution since leaving Madonna College, transcripts of such work are to be presented at the meeting. Students may appeal an unfavorable decision from the Vice President for Student Life to the Student Appeal Board.

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

Satisfactory Progress Table
Full and Part-Time Students
Academic Probation and Termination Policy

Enrollment Status (s.h. per term)	Semester Hours Per Academic Year*	Good Standing: G.P.A.	Probation G.P.A.
Full-time (12+ s.h.)	20 s.h.	2.0+	1.999 or less
Part-time (6-11 s.h.)	10 s.h.	2.0+	1.999 or less
Less than Part-Time (less than 5 s.h.)	1 course per term	2.0+	1.999 or less

*Minimum number of hours which must be successfully completed per academic year (with a grade of A, B, C or D) to constitute satisfactory progress. Two consecutive terms below 2.0 G.P.A. and/or failure to successfully complete courses will result in Termination.

Student Grievance Procedure & Appeal Board

The Student Grievance Procedure provides a method for settling student grievances which result from misinterpretation in areas related to the Madonna College Bulletin and/or departmental policies. The grievance procedure must be requested within six weeks of the end of the term wherein the grievance exists. (See Student Handbook for complete Student Appeal procedures. The Student Handbook is available in the Office of the Vice President for Student Life, located in the Offices of Student Life, Room 109.)

Experiential Learning

1. Formal application for prior learning credit will be accepted by the College when a student is formally admitted.
2. Credits for prior learning will be recorded when an admitted student has earned at least 12 semester hours of coursework at Madonna College.
3. Prior learning credit will be granted for learning experiences which match or parallel the content of a college course in that subject.
4. In some areas the College expects the applicant to demonstrate adequate laboratory and clinical/field work experience.
5. Up to sixty hours of credit may be granted for prior learning applicable to a baccalaureate degree, and this may satisfy the requirements for General Education, a major, or an elective. (Departmental policies also apply.)
6. Thirty semester hours may be granted on successful completion of CLEP examinations. Three to four semester hours for each course may be awarded to individuals who achieve a mean score, based on CLEP national norms sample. CLEP credit can be used to satisfy many of the General Education Requirements for graduation. CLEP credits will not be awarded in a subject below the level of work already attained by a student. The English Composition CLEP exam does not fulfill the English requirement, and the Natural Science Examination does not apply toward a science degree.
7. Students must REGISTER for CLEP evaluation of a course at the regular registration time. Experiential learning forms A, C and the CLEP SCORE REPORT are necessary for registration.
8. CLEP examinations are administered at Madonna College monthly on the Thursday before the third Saturday, with the exception of December, February and August, and require approximately one month processing.

9. The transcripts of students who have been awarded prior learning credit will carry the notation xxx.1 to indicate that credit was granted by evaluation, e.g., PSY 101.1, General Psychology.
10. Grading for prior learning credit is usually Satisfactory (S). A failing evaluation is not recorded.
11. Each student who plans to receive a bachelor's degree at Madonna College will need to take a minimum of 30 s.h. of coursework at Madonna College.
12. Experiential learning credits are excluded in determining a student's eligibility for financial aid.

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 191, 192, 291, 292, 391, 392, 491, and 492.

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 job placement by the department granting credit.
2. Transferees qualify after earning twelve semester hours at Madonna College or earlier upon departmental recommendation.
3. A cumulative and Madonna College 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 College.
5. Employable on terms of the employer as defined in the job placement.

A student may apply for cooperative education by obtaining an application form from the Office of Cooperative Education and making an appointment with a Co-op coordinator.

Application for cooperative education studies should be completed by June 1st for Term I, October 1st for Term II, and February 1st for Term III.

Catholic College Consortium

General procedures for enrolling in consortium college classes:

1. Students must enroll for at least 12 s.h. including the course(s) at the consortium college. An advisor's signature is required. Official authorization form is obtained from the home Registrar, completed, and validated. The completed authorization form is presented to the Registrars of both home and host schools and the registration procedures of the host institution are followed.
2. Tuition is paid to the home institution. Special laboratory and/or studio fees are paid directly to the host school. Madonna College students may also be requested to pay a tuition differential in some instances.
3. To drop a course taken on the above basis, student must comply with the deadlines of the home and host institutions and must officially inform the Registrars of both home and host schools of the decision.
4. The authority to limit total number of courses which Madonna College students may pursue at other consortium schools rests with the Academic Vice President.
5. A part-time student may not register for more than 12 s.h. of consortium credit during his or her undergraduate career.

Student Records

In accordance with the "Family Educational Rights & Privacy Act of 1974" the policy of Madonna College regarding student records is as follows:

1. 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.
2. Confidential information pertaining to students will not be disclosed to any person, organization or agency outside the College without the written authorization of the student.
3. A parent or legal guardian of a student under 18 years of age may request to view the dependent's records.
4. Directory information is public information.

Excluded from inspection are the following:

1. Parental financial records.
2. Confidential records of recommendation filed before January 1, 1975.
3. Confidential letters solicited under a waiver of the right of future access.

Records excluded from the provisions of the Act:

1. Personal notes of teachers and administrators.
2. Law enforcement records.
3. Employment records.
4. Medical psychiatric reports or related professional files.

Records may be released without written consent to:

1. Other school officials within the College.
2. Accrediting organizations.
3. Officials with application or receipt of financial aid.
4. State or local officials as required by state statute.
5. Organizations conducting studies on behalf of educational institutions.
6. In an emergency: health or safety.

A record of requests for information must be kept with each student's file.

Application for Graduation

Students who plan to earn bachelor degrees, associate degrees, or certificates of achievement must file appropriate notices with the Registrar one semester before the term in which they plan to finish their coursework. Deadline dates are specified in the calendar of the College Bulletin. Failure to meet the deadline date may result in graduation being postponed until the following term. There is a \$30 fee when filing an application for graduation.

Degrees with Distinction

To be eligible for a degree with distinction a student must complete at least 56 GPA hours at Madonna College after Junior status has been attained. The GPA considered for a degree with distinction will be based on all credits earned beginning the term a student attains Junior status. A student attains Junior status after having completed at least 59 s.h. Credits taken for an "S" grade will not be included in the required 56 GPA credit hours. If a course is repeated, the last grade earned will be included in the GPA calculation.

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 (minimum 30 s.h.).

Graduation & Commencement

Students may graduate at the end of each term upon completion of degree requirements. A minimum grade point average of 2.0 is required. The annual commencement exercises are scheduled early in May. Students receiving degrees are expected to participate in the exercises. Each candidate is assessed a \$30 fee for expenses, regardless of participation.

Students who expect to complete degree requirements at the end of the summer session may participate in the May commencement exercises. Such students must have no more than 9 semester hours remaining to complete graduation requirements and must be registered to take these in the summer term. These students are required to 1) meet the deadline for filing the "Application for Graduation," 2) have a minimum 2.00 cumulative grade point average, and 3) complete and file the "Petition to Participate in Graduation" form with the Vice President for Student Life by the posted deadline.

STUDENT LIFE POLICIES

I.D. Cards

College student identification cards are issued by the Offices of Student Life at the time of the first registration. The I.D. card can be replaced for \$3.00. The I.D. card should be carried at all times; it is used whenever identification is necessary, and must be presented when requested by a College staff member or security guard.

Parking Regulations

Students may use all the parking lots, except where restrictions are posted for reserved parking for the disabled. There is no parking on the grass or anywhere on the inner campus. Parking violators will be ticketed.

Dress Code

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

Madonna College Alumni Association (MCAA)

All graduates of Madonna College are considered members of the Madonna College Alumni Association. The MCAA provides recruitment assistance, on-campus activities and off-campus trips in which current students can participate. In cooperation with the Alumni Office, the MCAA raises funds for the College Annual Fund Campaign and Association projects.

Prohibitions

Students are prohibited from gambling or using narcotics, drugs and alcoholic beverages on campus. Madonna College 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 College will

not condone the abuse of the law or of persons. The College acknowledges, however, that alcohol and drug dependence is an illness and may make treatment recommendations in lieu of or in addition to penalties.

In deference to non-smokers, smoking is confined to designated areas in the academic building, the Commons Room, and the patio of the Residence Hall.

Drives & Solicitation of Funds

Individual students, staff or organizations are not permitted to operate stores or conduct sales in the dormitory or on the campus. Nor shall anyone solicit funds or organize and participate in fund-raising drives for any reason without first obtaining approval from the Office of Development.

Respect for Property

Damage caused by students to College property will result in disciplinary action as well as financial assessment for replacement or repair.

Changes in Policy

Students are responsible for knowledge of any authorized changes in policy, regulations, and procedures that may be implemented during the academic year.

UNDERGRADUATE MAJORS/AREAS OF CONCENTRATION & DEGREES

	Major	Minor	Certificate of Achievement	Associate Degree	Bachelor Degrees	
					B.A.	B.S.
Accounting	X					X
Allied Health Management	X					X
Applied Science ¹	X			AAS		BAS
Biochemistry	X					X
Biology	X	X				X
Business Administration	X	X		X		X
Chemistry	X	X				X
Child Development	X	X		X		X
Church Music	X				X	
Commercial Art	X			X	X	
Communication Arts	X	X		X	X	
Computer Information Systems	X	X				X
Computer Science	X	X		X		X
Computer Technology				X		
Criminal Justice	X	X	X	X		X
Administration/Management						
Corrections			X			
Law Enforcement			X			
Dietetics	X					X
Early Childhood Education (for elementary teacher certifications only)		X				
Education ²						
Emergency Medical Technology	X			X		
Engineering ¹						
English	X	X		X	X	
English/Journalism	X	X		X	X	
English/Speech	X	X		X	X	
Fashion Merchandising	X	X	X	X		X
Financial Administration	X					X
Fine Arts	X	X	X	X	X	
Fire Science	X	X	X	X		X
Food Service Management	X	X				X
Foreign Languages					X	
French ³	X	X			X	
General Science (for teacher certification only)	X					X
Gerontology	X	X	X	X		X
Activity Therapy in Gerontology			X			
Mental Health & Aging			X			
History	X	X			X	
Home Economics & Family Life	X	X				X
Hospice Education		X	X			
Hospitality Management (details available, September, 1990)						
Humanities		X				
International Business & Economics	X					X
Japanese Studies		X				
Journalism/Public Relations	X	X		X	X	
Legal Assistant	X		X	X		X
Long Term Care Administration	X		X	X		X
Management	X					X
Marketing	X					X

UNDERGRADUATE MAJORS/AREAS OF CONCENTRATION & DEGREES

	Major	Minor	Certificate of Achievement	Associate Degree	Bachelor Degrees	
					B.A.	B.S.
Mathematics	X	X		X		X
Medical Laboratory Technician	X			AAS		
Medical Technology	X					BSMT
Music		X				
Music, Piano Pedagogy			X			
Music Education	X				X	
Music Management	X				X	
Music Performance	X				X	
Natural Science	X	X		X		X
Pre-Nuclear Medicine Technology				X		
Pre-Radiography				X		
Nursing	X					BSN
Nutrition & Food Science	X	X		X		X
Occupational Safety & Health		X	X			
Occupational Safety, Health & Fire Science	X			X		X
Pastoral Ministry	X	X			X	
Philosophy		X				
Physics		X				
Polish ¹		X				
Political Science		X				
Preprofessional ²						
Pre-Dentistry, Pre-Law, Pre-Medicine, Pre-Optometry, Pre-Osteopathy, Pre-Pharmacy, Pre-Podiatry, Pre-Veterinary						
Psychology ³	X	X				X
Public Administration	X	X		X	X	
Radiography	X					X
Reading, K-8 or 7-12 (Education)		X				
Religious Studies	X	X	X	X	X	
Security & Loss Prevention	X	X	X	X		X
Sign Language Studies/Interpreting	X	X	X	X	X	
Interpreting						
Instruction						
Preprofessional						
Social Science	X	X		X	X	
Social Work	X					BSW
Sociology	X	X			X	
Spanish ¹	X	X			X	
Special Education/Learning Disabilities	X				X	
Speech & Drama		X				
Video Communications	X	X		X	X	
Vocational/Health	X					BAS
Vocational/Trade & Industry	X					BAS
Writing, Professional & Technical	X	X			X	

¹For select programs of study.

²Students in the Teacher Education Program complete an academic major. Refer to Education Department for details.

³Consortial arrangement with University of Detroit.

⁴Consortial arrangement with St. Mary College.

⁵Students complete appropriate majors such as biology, biochemistry, or history to prepare themselves for professional schools. Students should become familiar with the exact requirements of the school to which they will apply.

⁶A Mental Health Certificate is available to Psychology majors through 12 s.h. additional coursework. See the Plans of Study section of the Bulletin.

NOTE: Certificates of Achievement and Associate Degrees are not awarded in programs such as Education, Nursing, Medical Technology and Radiography.

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

PLAN OF STUDY GENERAL EDUCATION

Liberal Arts Education is an education for life, designed to expand the students' understanding of significant ideas and issues relevant to culture and the complexity of the modern world. Madonna College provides students with career preparation within a liberal arts framework consistent with the mission statement of the College.

To this end, the College requires all students to complete a General Education core as well as a major program in a chosen field of study.

The General Education requirements evolve from statements of competencies that together characterize the liberally educated person. These competencies provide a rationale for the courses designated in the core.

Degrees

Madonna College offers programs leading to certificates of achievement and to associate, baccalaureate, and master degrees.

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

Certificate of Achievement

A certificate of achievement is awarded in specified areas to admitted Madonna College students who earn 30 semester hours in a planned program of study, including ENG 101, with a grade point average of 2.0 (C) or better.

ASSOCIATE DEGREE REQUIREMENTS

For the associate degree, a minimum of 60 semester hours with a grade point average of 2.0 (C) or better is required. This includes:

1. 24-31 semester hours in a major field of study and a minimum of "C" in each course of the major sequence.
2. 31 semester hours in General Education:

Humanities, a minimum of 19 s.h. are required from the following distribution:

Values/Religious Perspectives**, minimum of:

— 3 s.h. Religious Studies

**Some courses are designed basically within the Catholic tradition; other courses are nondenominational in approach and of general human interest.

Communication Skills, minimum of:

- 6 s.h. ENG 101 Communication Skills I (3 s.h.)
ENG 102 Communication Skills II (3 s.h.)

Culture & Aesthetic Appreciation, minimum of:

- 4 s.h. HUM 201 The Medium & the Message (4 s.h.)
- 3 s.h. ART 202 Great Monuments in World Art (3 s.h.)
ENG 223 Ideas in World Literature (3 s.h.)
MUS 202 Music Through the Ages (3 s.h.)
- 3 s.h. HIS 108 Ancient World (4 s.h.)
HIS 245 Medieval & Renaissance Europe (4 s.h.)
HIS 330 Early Modern Europe (4 s.h.)
HIS 333 Modern Europe, 1815-Present (4 s.h.)
PHL 101 Introduction to Philosophy (3 s.h.)
PHL 105 Anthropology: Philosophy of Person (3 s.h.)
PHL 155 Inquiry Into Values (3 s.h.)
PHL 201 Logic (3 s.h.)
PHL 221 Person & Society (3 s.h.)
PHL 315 Phenomenology & Existentialism (3 s.h.)
PHL 331 Philosophy, Technology & Human Concern (3 s.h.)
PHL 365 Epistemology: Philosophy of Knowledge (3 s.h.)

Natural Science & Mathematics, 6 s.h. are required from the following:

Mathematical Skills/Computer Literacy, minimum of:

- 3 s.h. MTH 105 Intermediate Algebra (4 s.h.)
MTH 115 Contemporary Mathematics (3 s.h.)
MTH 121 Precalculus (4 s.h.)
MTH 208 Principles of Computer Science (3 s.h.)
MTH 235 Probability & Statistics (4 s.h.)
MTH 251 Calculus with Analytic Geometry I (4 s.h.)

Scientific Bases of Technological Realities, minimum of:

- 3 s.h. BIO 101 Introduction to Biology (4 s.h.)
BIO 224 Basic Human Physiology (4 s.h.)
BIO 243 Anatomy & Physiology I (3 s.h.)
CHM 101 Introductory Principles of Chemistry (4 s.h.)
CHM 111 General Chemistry I (4 s.h.)
CHM 161 Introduction to Life Chemistry (4 s.h.)
NSC 125 Health Problems (4 s.h.)
NSC 216 Earth Science (4 s.h.)
NSC 225 Human Nutrition (4 s.h.)
NSC 303 Oceans: Our Continuing Frontier (4 s.h.)

NSC 325 The Ascent of Man (4 s.h.)
PHY 253 General Physics I (4 s.h.)
PHY 254 General Physics II (4 s.h.)

Social Science, 6 s.h. are required from the following:

Personal, Social and Societal Skills, minimum of:

— 3 s.h. PSY 101 General Psychology (3 s.h.)

National & International Citizenship Skills, minimum of:

— 3 s.h. HIS 101 World Problems (3 s.h.)
HIS 432 Diplomatic History of the United States (3 s.h.)
HIS 463 Emerging Nations (3 s.h.)

3. The last 15 semester hours must be completed at Madonna College.
4. For additional policies, review the Madonna College Bulletin and see advisor.

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. This includes:

1. 30-56 semester hours in a major field of study (majors within the Division of Business & Computer Systems require 62 semester hours) and a minimum of "C" in each course of the major sequence.
2. A minimum of 52 semester hours in General Education:

Humanities, a minimum of 25 s.h. are required from the following distribution:

Values/Religious Perspectives**, minimum of:

— 6 s.h. Religious Studies

**Some courses are designed basically within the Catholic tradition; other courses are nondenominational in approach and of general human interest.

Communication Skills, minimum of:

— 6 s.h. ENG 101 Communication Skills I (3 s.h.)
ENG 102 Communication Skills II (3 s.h.)

Culture & Aesthetic Appreciation, minimum of:

- 4 s.h. HUM 201 The Medium & the Message (4 s.h.)
HUM 305 The Idea of Justice (4 s.h.)

- 3 s.h. ART 202 Great Monuments in World Art (3 s.h.)
ENG 223 Ideas in World Literature (3 s.h.)
MUS 202 Music Through the Ages (3 s.h.)

- 4 s.h. ENG 301 Major American Writers: Beginnings to 1900 (4 s.h.)
ENG 302 Major American Writers: 1900 to Present (4 s.h.)
ENG 355 Women in Literature (4 s.h.)
ENG 361 Major British Writers: Chaucer to Johnson (4 s.h.)
ENG 362 Major British Writers: Blake to Eliot (4 s.h.)
ENG 371 Contemporary Literature (4 s.h.)
ENG 421 Time & Literature (4 s.h.)
ENG 475 Studies in Literature (4 s.h.)

- 3 s.h. HIS 108 Ancient World (4 s.h.)
HIS 245 Medieval & Renaissance Europe (4 s.h.)
HIS 330 Early Modern Europe (4 s.h.)
HIS 333 Modern Europe, 1815-Present (4 s.h.)
PHL 101 Introduction to Philosophy (3 s.h.)
PHL 105 Anthropology: Philosophy of Person (3 s.h.)
PHL 155 Inquiry Into Values (3 s.h.)
PHL 201 Logic (3 s.h.)
PHL 221 Person & Society (3 s.h.)
PHL 315 Phenomenology & Existentialism (3 s.h.)
PHL 331 Philosophy, Technology & Human Concern (3 s.h.)
PHL 365 Epistemology: Philosophy of Knowledge (3 s.h.)
PHL 408 Christian Ethics (3 s.h.)
PHL 411 Medical Ethics (3 s.h.)

Natural Science & Mathematics, 12 s.h. are required from the following:

Mathematical Skills, minimum of:

- 3 s.h. MTH 105 Intermediate Algebra (4 s.h.)
MTH 106 Trigonometry (3 s.h.)
MTH 115 Contemporary Mathematics (3 s.h.)
MTH 121 Precalculus (4 s.h.)
MTH 230 Business Calculus (4 s.h.)
MTH 235 Probability & Statistics (4 s.h.)
MTH 243 Mathematics Foundations (4 s.h.)
MTH 251 Calculus with Analytic Geometry I (4 s.h.)

Computer Literacy, minimum of:

- 2 s.h. CIS 225 Computer Fundamentals (2 s.h.)
- CIS 238 Introduction to Computers (3 s.h.)
- MTH 208 Principles of Computer Science (3 s.h.)

Scientific Bases of Technological Realities/Biological Science, minimum of:

- 3 s.h. BIO 101* Introduction to Biology (4 s.h.)
- BIO 103* General Biology I (4 s.h.)
- BIO 104* General Biology II (4 s.h.)
- BIO 224 Basic Human Physiology (4 s.h.)
- BIO 226* Microbiology (4 s.h.)
- BIO 243* Anatomy & Physiology I (3 s.h.)
- BIO 244* Anatomy & Physiology II (3 s.h.)
- BIO 361 Epidemiology (3 s.h.)
- BIO 371 Pathophysiology (3 s.h.)
- CHM 361* Biochemistry I (4 s.h.)
- EMT 101* Advanced First Aid/First Responder (3 s.h.)
- NSC 125 Health Problems (4 s.h.)
- NSC 225 Human Nutrition (4 s.h.)
- NSC 315 Physical Aspects of Aging (3 s.h.)
- NSC 373* Science Foundations I (4 s.h.)

Scientific Bases of Technological Realities/Physical Science, minimum of:

- 4 s.h. CHM 101* Introductory Principles of Chemistry (4 s.h.)
- CHM 111* General Chemistry I (4 s.h.)
- CHM 161* Introduction to Life Chemistry (4 s.h.)
- NSC 216* Earth Science (4 s.h.)
- NSC 303 Oceans: Our Continuing Frontier (4 s.h.)
- NSC 325 The Ascent of Man (4 s.h.)
- NSC 374* Science Foundations II (4 s.h.)
- PHY 253* General Physics I (4 s.h.)
- PHY 254* General Physics II (4 s.h.)
- PHY 271* 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.

Social Science, 15 s.h. are required from the following:

Personal, Social and Societal Skills, minimum of:

- 3 s.h. PSY 101 General Psychology (3 s.h.)

- 6 s.h. BUS 101 Contemporary Society & The Organization (3 s.h.)
- BUS 216 Human Behavior & Attitudes (2 s.h.)
- BUS 236 Principles of Management (3 s.h.)
- BUS 302 Organizational Behavior (3 s.h.)
- BUS 316 Human Behavior & Leadership (2 s.h.)
- ENG 262 Language & Culture (3 s.h.)
- GER 107 Introduction to Gerontology (3 s.h.)
- GER 307 Psychology of Aging (3 s.h.)
- PSY 245 Life Span Developmental Psychology (4 s.h.)
- SLS 100 Introduction to Sign Language Studies (3 s.h.)
- SLS 231 Deaf Culture (3 s.h.)
- SOC 101 Introduction to Sociology & Cultural Anthropology (4 s.h.)
- SOC 221 Social Problems (4 s.h.)
- SOC 322 Race, Ethnicity & Social Class in American Life (4 s.h.)
- SOC 353 Marriage & The Family (4 s.h.)
- SOC 367 Social Psychology (4 s.h.)

National & International Citizenship Skills, minimum of:

- 3 s.h. HIS 101 World Problems (3 s.h.)
 - HIS 432 Diplomatic History of the United States (3 s.h.)
 - HIS 463 Emerging Nations (3 s.h.)

 - 3 s.h. ECN 271 Economics for Human Services (3 s.h.)
 - ECN 272 Principles of Microeconomics (4 s.h.)
 - ECN 273 Principles of Macroeconomics (4 s.h.)
 - GEO 301 World Regional Geography (4 s.h.)
 - HIS 231 United States to 1900 (4 s.h.)
 - HIS 341 Minority Groups in America (4 s.h.)
 - HIS 451 Economic & Business History of the United States (4 s.h.)
 - HIS 453 United States in the Twentieth Century (4 s.h.)
 - PSC 251 American Government (4 s.h.)
 - PSC 301 International Relations (4 s.h.)
 - PSC 321 Comparative Politics (4 s.h.)
 - PSC 451 State & Local Government (4 s.h.)
3. Successfully passing the senior comprehensive examination or the equivalent senior seminar.
 4. The last 30 semester hours must be completed at Madonna College.
 5. Students are encouraged to consider a second major or a minor whenever possible.

Madonna College provides educational opportunities to graduates of community colleges who have earned associate degrees and are interested in pursuing bachelor degrees. A student may transfer up to 64 semester hours or the equivalent from a two-year college into a baccalaureate program at Madonna College. The associate of arts or sciences degree from a community college is recognized as fulfilling the two-year General Education requirements of the College, provided that the transfer courses conform with the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) agreement. Students who satisfy the MACRAO agreement may still be required to fulfill additional General Education requirements in religious studies, literature, computer literacy, social sciences or other areas when pursuing a baccalaureate degree. For further information, contact the Admissions Office.

MASTER DEGREE REQUIREMENTS

For master degree programs, see graduate bulletin.

DIVISIONAL ORGANIZATION

Division of Business & Computer Systems

- Accounting
- Business Administration
- Computer Information Systems
- Computer Technology
- Financial Administration
- International Business & Economics
- Management
- Marketing

Division of Humanities

- Commercial Art
- Communication Arts
- English
- English/Journalism
- English/Speech
- Fine Arts
- French
- Humanities
- Japanese Studies
- Journalism & Public Relations
- Music, Church
- Music, Instrumental/Vocal Performance
- Music Education
- Music Management
- Pastoral Ministry
- Piano Pedagogy
- Philosophy
- Polish
- Religious Studies
- Sign Language Studies/Interpreting
- Spanish
- Speech & Drama
- Video Communications
- Writing, Professional & Technical

Division of Nursing & Health

- Emergency Medical Technology
- Hospice Education
- Nursing
- Physical Education

Division of Science & Technology

- Allied Health Management
- Applied Science
- Biochemistry
- Biology
- Chemistry
- Computer Science
- Engineering

Fire Science
General Science
Mathematics
Medical Laboratory Technician
Medical Technology
Natural Science
 Pre-Nuclear Medicine Technology
 Pre-Radiography
Occupational Safety, Health & Fire Science
Physics
Pre-Professional
 Pre-Dentistry
 Pre-Medicine
 Pre-Optometry
 Pre-Osteopathy
 Pre-Pharmacy
 Pre-Podiatry
 Pre-Veterinary
Radiography
Vocational/Health
Vocational/Trade and Industry

Division of Social Sciences

Child Development
Criminal Justice
 Administration/Management
 Corrections
 Law Enforcement
Dietetics
Early Childhood Education
Education
Fashion Merchandising
Food Service Management
Gerontology
 Activity Therapy
 Mental Health & Aging
History
Home Economics & Family Life
Hospitality Management (available September, 1990)
Legal Assistant
Long Term Care Administration
Nutrition & Food Science
Political Science
Pre-Law
Psychology
Public Administration
Security & Loss Prevention
Social Science
Social Work
Sociology
Special Education/Learning Disabilities

PLANS OF STUDY

ACCOUNTING

Accounting Major (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 303	Intermediate Accounting I	3 s.h.
BUS 304	Intermediate Accounting II	3 s.h.
BUS 315	Business Finance	3 s.h.
BUS 333	Business Law	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 358	Taxation I	3 s.h.
BUS 361	Taxation II	3 s.h.
BUS 370	Cost Accounting	3 s.h.
BUS 395	Business & Society	3 s.h.
BUS 405	Advanced Accounting	4 s.h.
BUS 450	Auditing	3 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
CIS 330	Information Systems for Decision Making	2 s.h.
	Major Electives - to be chosen from:	5 s.h.
	BUS 242 Principles of Financial Administration (3 s.h.)	
	BUS 314 International Business (3 s.h.)	
	BUS 371 Institutional Portfolio Management (3 s.h.)	
	BUS 419 Special Problems in Accounting (1-4 s.h.)	
	BUS 464 Managerial Finance (3 s.h.)	
	BUS 491 Cooperative Education (1 s.h.)	
	ECN 380 Money & Banking (3 s.h.)	
	ECN 435 International Trade & Finance (3 s.h.)	
		62 s.h.

Required Support Courses:

ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		20 s.h.

Students planning to take the CPA exam should also take:

BUS 406	Government and Non-Profit Accounting	3 s.h.
CIS 432	Audit & Control of Accounting & Information Systems	2 s.h.

ALLIED HEALTH MANAGEMENT

Allied Health Management Major (33 s.h.)

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 may apply for 16-32 s.h. of credit by evaluation.

Required Major Courses: (33 s.h.)

AHM 380	Health Care Organization	2 s.h.
AHM 474	Health Care Finance	2 s.h.
AHM 476	Allied Health Administration	2 s.h.
AHM 478	Allied Health Education	2 s.h.
AHM 495	Senior Seminar	2 s.h.
BUS 101	Contemporary Society & The Organization	3 s.h.
BUS 216	Human Behavior & Attitudes	2 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 271	Economics for Human Services	3 s.h.
BUS 316	Human Behavior & Leadership	2 s.h.
BUS 375	Allied Health Management	3 s.h.
CIS 225	Computer Fundamentals	2 s.h.
	Allied Health Management Electives	2 s.h.
	Business Electives	3 s.h.
		<hr/>
		33 s.h.

APPLIED SCIENCE

Applied Science Major

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 program applies to these areas:

1. Two year program in Medical Laboratory Technician completed at Madonna College.
2. Electronics Technology program completed at National Education Center, Livonia or East Detroit.
3. Select certificate and associate degree technical programs completed at community colleges.
4. Select vocational and trade programs completed at collegiate or non-collegiate institutions which are applicable to a Michigan Temporary Vocational Authorization Certificate or a Michigan Secondary Provisional Certificate with Vocational Endorsement.

The applied science program is under the direction of the Division of Science and Technology.

Required Major Courses*:

APS 495	Senior Seminar	2 s.h.
---------	----------------	--------

* See the Division of Science & Technology for other required courses for specific Applied Science programs.

BIOCHEMISTRY

Biochemistry Major (38 s.h.)

Required Major Courses:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 222	Organic Chemistry II	4 s.h.
CHM 331	Quantitative Analysis	4 s.h.
CHM 361	Biochemistry I	4 s.h.
CHM 362	Biochemistry II	4 s.h.
CHM 441	Physical Chemistry I	4 s.h.
CHM 442	Physical Chemistry II	4 s.h.
CHM 495	Senior Seminar	2 s.h.
		<hr/>
		38 s.h.

Required Support Courses:*

PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
MTH 246 or	Programming: BASIC	3 s.h.
MTH 247	Programming: FORTRAN	3 s.h.
MTH 251	Calculus with Analytic Geometry I	4 s.h.
MTH 252	Calculus with Analytic Geometry II	4 s.h.
BIO 224**	Basic Human Physiology	4 s.h.
BIO 226**	Microbiology	4 s.h.
BIO 301**	Genetics	4 s.h.
		<hr/>
		31 s.h.

*Required support courses provide a basis for selecting a minor toward secondary certification. These include:

1. Natural Science (24 s.h.) with one approved biology or physics course.
2. Mathematics (20 s.h.) with MTH 235 plus approved courses from major which may include one computer science course.
3. Physics (20 s.h.) with PHY 271, 351, 451.
4. Biology (20 s.h.) with BIO 103, 104.

**Biology minor includes these courses plus BIO 103 and 104. Pre-professional students should elect a biology minor.

BIOLOGY

Biology Major (30 s.h.)

Required Major Courses:

BIO 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
BIO 226	Microbiology	4 s.h.

BIO 243	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
BIO 301	Genetics	4 s.h.
BIO 495	Senior Seminar	2 s.h.
	Major Electives	6 s.h.
		<hr/> 30 s.h.

Required Support Courses:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 235	Probability & Statistics	3 s.h.
		<hr/> 23 s.h.

A chemistry minor and a cooperative education placement are recommended.

Biology Minor (20 s.h.)

Required Minor Courses:

BIO 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
BIO 224	Basic Human Physiology	4 s.h.
BIO 226	Microbiology	4 s.h.
BIO 301	Genetics	4 s.h.
		<hr/> 20 s.h.

BUSINESS ADMINISTRATION

Business Administration Major (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 333	Business Law	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 395	Business & Society	3 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
	Major Electives*	32 s.h.
		<hr/> 62 s.h.

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

Required Support Courses:

ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/>
		20 s.h.

Business Administration Major - Associate Degree (30 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
	Major Electives	13 s.h.
		<hr/>
		30 s.h.

Business Administration Minor (24 s.h.)

Required Minor Courses:

BUS 201	Principles of Accounting I	4 s.h.
CIS 225 or	Computer Fundamentals	2 s.h.
CIS 238	Introduction to Computers	3 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
	Minor Electives	14-15 s.h.
		<hr/>
		24 s.h.

Recommended Courses:

BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 333	Business Law	3 s.h.

CHEMISTRY

Chemistry Major (38 s.h.)

Required Major Courses:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 222	Organic Chemistry II	4 s.h.
CHM 331	Quantitative Analysis	4 s.h.
CHM 351	Advanced Inorganic Chemistry	4 s.h.
CHM 441	Physical Chemistry I	4 s.h.
CHM 442	Physical Chemistry II	4 s.h.
CHM 451	Instrumental Analysis	4 s.h.
CHM 495	Senior Seminar	2 s.h.
		<hr/>
		38 s.h.

Recommended Electives:

CHM 361	Biochemistry I	4 s.h.
CHM 362	Biochemistry II	4 s.h.
CHM 490	Problems in Chemistry	1-4 s.h.
		<hr/>
		9-12 s.h.

Required Support Courses (19 s.h.):

MTH 251	Calculus with Analytic Geometry I	4 s.h.
MTH 252	Calculus with Analytic Geometry II	4 s.h.
MTH 246 or	Programming: BASIC	3 s.h.
MTH 247	Programming: FORTRAN	3 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/>
		19 s.h.

Chemistry Minor (20 s.h.)

Required Minor Courses:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 222 or	Organic Chemistry II	4 s.h.
CHM 361	Biochemistry I	4 s.h.
CHM 331	Quantitative Analysis	4 s.h.
		<hr/>
		20 s.h.

CHILD DEVELOPMENT

Child Development Major (37 s.h.)

Required Major Courses:

FCR 216	Child Development & Guidance	3 s.h.
FCR 238	Maternal & Child Nutrition	3 s.h.
FCR 258	Child Development Curriculum	3 s.h.
FCR 272*	Child Care Practicum & Seminar	2-4 s.h.
FCR 273*	Child Care Practicum & Seminar	2-4 s.h.
FCR 274*	Child Care Practicum & Seminar	2-4 s.h.
FCR 310	Language Development in Early Childhood	3 s.h.
FCR 316	Administration of Child Care Centers	3 s.h.
FCR 353	Marriage & the Family	4 s.h.
FCR 410	Philosophies in Early Childhood Education	3 s.h.
FCR 413	Parents & Teachers - Partners in Education	3 s.h.
FCR 495	Seminar	2 s.h.

Major Electives - to be chosen from:

- FCR 201 Creative Art & Music (4 s.h.)
- FCR 208 Creative Play & Movement (4 s.h.)
- FCR 245 Life Span Psychology (4 s.h.)
- FCR 270 Child Psychology (4 s.h.)
- FCR 493 Practicum (2 s.h.)

37 s.h.

Child Development Major - Associate Degree (30 s.h.)

Required Major Courses:

FCR 216	Child Development & Guidance	3 s.h.
FCR 238	Maternal & Child Nutrition	3 s.h.
FCR 258	Child Development Curriculum	3 s.h.
FCR 272*	Child Care Practicum & Seminar	2-4 s.h.
FCR 273*	Child Care Practicum & Seminar	2-4 s.h.
FCR 274*	Child Care Practicum & Seminar	2-4 s.h.
FCR 316	Administration of Child Care Centers	3 s.h.
FCR 413	Parents & Teachers - Partners in Education	3 s.h.
	Major Electives	11 s.h.
		<hr/> 30 s.h.

Child Development Minor (21 s.h.)

Required Minor Courses:

FCR 216	Child Development & Guidance	3 s.h.
FCR 238	Maternal & Child Nutrition	3 s.h.
FCR 258	Child Development Curriculum	3 s.h.
FCR 272*	Child Care Practicum & Seminar	2-4 s.h.
FCR 273*	Child Care Practicum & Seminar	2-4 s.h.
FCR 274*	Child Care Practicum & Seminar	2-4 s.h.
FCR 310 or	Language Development in Early Childhood	3 s.h.
FCR 410	Philosophies in Early Childhood Education	3 s.h.
FCR 413	Parents & Teachers - Partners in Education	3 s.h.
FCR 493	Practicum	2 s.h.
FCR 495	Seminar	2 s.h.
		<hr/> 21 s.h.

Early Childhood Education Minor (21 s.h.)

Required Minor Courses:

FCR 216	Child Development & Guidance	3 s.h.
FCR 258	Child Development Curriculum	3 s.h.
FCR 272*	Child Care Practicum & Seminar	2-4 s.h.
FCR 273*	Child Care Practicum & Seminar	2-4 s.h.
FCR 274*	Child Care Practicum & Seminar	2-4 s.h.
FCR 410	Philosophies of Early Childhood	3 s.h.
FCR 413	Parents & Teachers - Partners in Education	3 s.h.
FCR 495	Senior Seminar	2 s.h.
	Electives - to be chosen from:	3 s.h.
	FCR 201 Creative Art & Music (4 s.h.)	
	FCR 208 Creative Play & Movement (4 s.h.)	
	FCR 238 Maternal & Child Nutrition (3 s.h.)	
	FCR 310 Language Development in Early Childhood (3 s.h.)	
	FCR 316 Administration of Childcare Centers (3 s.h.)	
		<hr/> 21 s.h.

* Student must select at least two of these three courses and may register for 2 to 4 hours of each Practicum (minimum 4 s.h. total).

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

ZA Endorsement: Early childhood, 18 s.h. planned program, post degree. Available to certified elementary teachers.

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

Secondary Teacher Certification & Vocational Authorization: Child Development, Food Service Management, and Home Economics & Family Life.

COMMERCIAL ART

Commercial Art Major (45 s.h.)

Required Major Courses:

ART 105	The Visual Arts in 2-D	4 s.h.
ART 121	Introduction to Commercial Art	4 s.h.
ART 207	Creative Design & Color	4 s.h.
ART 210 or	Commercial Illustration	3 s.h.
ART 330	Advanced Drawing	3 s.h.
ART 268	Commercial Art Experiences	4 s.h.
ART 325*	Art History: Ancient to Renaissance	4 s.h.
ART 326*	Art History: Renaissance to 20th Century	4 s.h.
ART 346 or	Relief & Silkscreening	3 s.h.
ART 447 or	Intaglio (Etching)	3 s.h.
ART 448	Lithography	3 s.h.
ART 361	Advertising Design	4 s.h.
ART 415	Modern Art	4 s.h.
ART 425	Advanced Problems in Commercial Art	4 s.h.
	Major Electives	2-4 s.h.
		<hr/> 45 s.h.

Commercial Art Major - Associate Degree (30 s.h.)

Required Major Courses:

ART 105	The Visual Arts in 2-D	4 s.h.
ART 121	Introduction to Commercial Art	4 s.h.
ART 207	Creative Design & Color	4 s.h.
ART 268	Commercial Art Experiences	4 s.h.
ART 326*	Art History: Renaissance to 20th Century	4 s.h.
ART 346 or	Relief & Silkscreen Printing	3 s.h.
ART 447 or	Intaglio (Etching)	3 s.h.
ART 448	Lithography	3 s.h.
ART 361	Advertising Design	4 s.h.
	Major Elective	3 s.h.
		<hr/> 30 s.h.

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.

Madonna College also offers programs in Fine Arts.

*Substitutes for general education requirement of ART 202.

COMMUNICATION ARTS

Communication Arts Major (40 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
ENG 301 or	Major American Writers: Beginnings to 1900	4 s.h.
ENG 302	Major American Writers: 1900 to Present	4 s.h.
ENG 361 or	Major British Writers: Chaucer to Johnson	4 s.h.
ENG 362	Major British Writers: Blake to Eliot	4 s.h.
HUM 495	Senior Seminar	1 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 316	Newspaper Production	2 s.h.
JRN 357	Editing & Copyreading	3 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
SPH 105	Speech Communication	3 s.h.
SPH 316	Group Dynamics & Discussion Techniques	4 s.h.
SPH 341	Acting Techniques I	4 s.h.
	Major Electives - to be chosen from:	5 s.h.
	ENG 223 Ideas in World Literature (3 s.h.)	
	ENG 262 Language & Culture (3 s.h.)	
	ENG 300 Children's Literature & Drama (4 s.h.)	
	ENG 310 Advanced Composition & Research Strategies (3 s.h.)	
	ENG 326 Business & Professional Writing (3 s.h.)	
	ENG 344 Advanced Technical Writing (3 s.h.)	
	ENG 355 Women in Literature (4 s.h.)	
	ENG 371 Contemporary Literature (4 s.h.)	
	ENG 421 Time & Literature (4 s.h.)	
	ENG 475 Studies in Literature (4 s.h.)	
	JRN 205 Public Relations Writing (3 s.h.)	
	JRN 286 Editorial & Feature Writing (3 s.h.)	
	JRN 416 Advanced Newspaper Production (2 s.h.)	
	SPH 342 Acting Techniques II (4 s.h.)	
	SPH 351 Television Production Techniques I (3 s.h.)	
	SPH 352 Television Production Techniques II (3 s.h.)	
	SPH 415 Film Appreciation (4 s.h.)	
		40 s.h.

Communication Arts Major - Associate Degree (24 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 316	Newspaper Production	2 s.h.
JRN 357	Editing & Copyreading	3 s.h.
SPH 105	Speech Communication	3 s.h.
	Major Electives	9 s.h.
		24 s.h.

Communication Arts Minor (24 s.h.)

Required Minor Courses:

ENG 301	Major American Writers: Beginnings to 1900	4 s.h.
ENG 302	Major American Writers: 1900 to Present	4 s.h.
ENG 361 or	Major British Writers: Chaucer to Johnson	4 s.h.
ENG 362	Major British Writers: Blake to Eliot	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 316	Newspaper Production	2 s.h.
SPH 105	Speech Communication	3 s.h.
	Minor Electives - to be chosen from:	4 s.h.
	(See listing above.)	24 s.h.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Major (62 s.h.)

Required Major Courses:

CIS 243	Introduction to Business Application Programming	3 s.h.
CIS 248	Programming Applications II: COBOL	3 s.h.
CIS 291	Co-op I: Computer Operations	1 s.h.
CIS 345	Systems Analysis	3 s.h.
CIS 348	Data Structures	3 s.h.
CIS 385	Data Base Management	3 s.h.
CIS 388	Programming Languages: Fourth Generation	3 s.h.
CIS 455	Advanced System Programming & Design	3 s.h.
CIS 490	Information Systems Policy	3 s.h.
CIS 491	Co-op II: Programming/Analysis	1 s.h.
	Major Computer Electives - to be chosen from:	12 s.h.
	CIS 245 Programming Applications I: RPG II (3 s.h.)	
	CIS 341 Programming Applications III: Pascal (3 s.h.)	
	CIS 342 Computer Graphics in Business (2 s.h.)	
	CIS 386 Decision Support & Expert Systems (2 s.h.)	
	CIS 389 Computer Information Systems Structure (2 s.h.)	
	CIS 419 Special Problems (1-4 s.h.)	
	CIS 425 Advanced Office & Telecommunication Systems (2 s.h.)	
	CIS 432 Audit & Control of Accounting & Information Systems (2 s.h.)	
	MTH 248 Programming: C (3 s.h.)	

38 s.h.

Required Business Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 302	Organizational Behavior	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 495	Business Policy	3 s.h.

24 s.h.

Required Support Courses:

CIS 238	Introduction to Computers	3 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/>
		23 s.h.

Computer Information Systems Minor (24 s.h.)

Required Minor Courses:

BUS 201	Principles of Accounting I	4 s.h.
CIS 238	Introduction to Computers	3 s.h.
CIS 243	Introduction to Business Application Programming	2 s.h.
CIS 248	Programming Applications II: COBOL	3 s.h.
CIS 291	Co-op I: Computer Operations	1 s.h.
	Minor Electives	11 s.h.
		<hr/>
		24 s.h.

Computer Technology Major - Associate Degree (30 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
CIS 238	Introduction to Computers	3 s.h.
CIS 243	Introduction to Business Application Programming	2 s.h.
CIS 248	Programming Applications II: COBOL	3 s.h.
CIS 291	Co-op I: Computer Operations	1 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
	Major Electives	13 s.h.
		<hr/>
		30 s.h.

COMPUTER SCIENCE

Computer Science Major (43-45 s.h.)

Required Major Courses:

MTH 208	Principles of Computer Science	3 s.h.
MTH 248	Programming: C	3 s.h.
MTH 247	Programming: FORTRAN	3 s.h.
MTH 251	Calculus with Analytic Geometry I	4 s.h.
MTH 252	Calculus with Analytic Geometry II	4 s.h.
MTH 291	Co-op in Operations	2-3 s.h.
MTH 303	Operating Systems	3 s.h.
MTH 305	Computer Organization & Assembly Language	4 s.h.
MTH 313	Compiler & Language Theory	3 s.h.
MTH 391	Co-op in Software	2-3 s.h.
MTH 485	Seminar: Computers & Society	3 s.h.
	Major Electives - to be chosen from:	9 s.h.
	MTH 246 Programming: BASIC (3 s.h.)	
	MTH 249 Interpretive Language: ALP & LISP (3 s.h.)	

MTH 301 Numerical Analysis for Computer Science (3 s.h.)
 MTH 341 Linear Algebra (3 s.h.)
 PHY 451 Electronics: Digital Techniques (4 s.h.)
 CIS 248 Programming Applications II: COBOL (3 s.h.)
 CIS 341 Programming Applications III: Pascal (3 s.h.)
 CIS 348 Data Structures (3 s.h.)
 CIS 385 Data Base Management (3 s.h.)

43-45 s.h.

Required for Associate Degree in Computer Science: 30-32 hours from required courses listed above (except Co-ops, which may be taken as electives).

Computer Science Minor (21 s.h.)

Required Minor Courses:

MTH 208	Principles of Computer Science	3 s.h.
MTH 248	Programming: C	3 s.h.
MTH 251	Calculus with Analytic Geometry I	4 s.h.
MTH 252	Calculus with Analytic Geometry II	4 s.h.
MTH 303	Operating Systems	3 s.h.
MTH 305	Computer Organization & Assembly Language	4 s.h.
		<hr/>
		21 s.h.

Computer Science Major for Teacher Education State Certification (36 s.h.)

Required Major Courses:

MTH 208	Principles of Computer Science	3 s.h.
MTH 230 or	Business Calculus	4 s.h.
MTH 251	Calculus with Analytic Geometry I	4 s.h.
MTH 246	Programming: BASIC	3 s.h.
MTH 247	Programming: FORTRAN	3 s.h.
MTH 303	Operating Systems	3 s.h.
MTH 305	Computer Organization & Assembly Language	4 s.h.
MTH 291 or	Co-op in Operations	2-3 s.h.
MTH 391	Co-op in Software	2-3 s.h.
MTH 485	Seminar: Computers & Society	3 s.h.
CIS 248	Programming Applications II: COBOL	3 s.h.
CIS 341	Programming Applications III: PASCAL	3 s.h.
CIS 348	Data Structures	3 s.h.
CIS 385	Data Base Management	3 s.h.
		<hr/>
		36 s.h.

Computer Science Minor for Teacher Education State Certification (24 s.h.)

Required Minor Courses:

MTH 208	Principles of Computer Science	3 s.h.
MTH 246	Programming: BASIC	3 s.h.
MTH 247	Programming: FORTRAN	3 s.h.
MTH 303	Operating Systems	3 s.h.
MTH 485	Seminar: Computers & Society	3 s.h.
CIS 248 or	Programming Applications II: COBOL	3 s.h.
CIS 341	Programming Applications III: PASCAL	3 s.h.
CIS 348	Data Structures	3 s.h.
CIS 385	Data Base Management	3 s.h.
		<hr/>
		24 s.h.

CRIMINAL JUSTICE

Criminal Justice Major (49 s.h.)

Required Major Core Courses:*

CJ 102	Introduction to Criminal Justice	3 s.h.
CJ 201	Criminal Justice Organization & Administration	3 s.h.
CJ 265	Criminal Law	3 s.h.
CJ 321	Principles of Criminology	3 s.h.
CJ 495	Criminal Justice Seminar	3 s.h.
		<hr/>
		15 s.h.

* A Practicum in Criminal Justice/Co-op (CJ 291, 391 or 491; 3 s.h. each) is strongly recommended for pre-service students.

Required Support Courses:

PSC 251	American Government	4 s.h.
SOC 101 or	Introduction to Sociology & Cultural Anthropology	4 s.h.
SOC 221	Social Problems	4 s.h.
SOC 322 or	Race, Ethnicity, & Social Class in American Life	4 s.h.
SOC 442	Urban Sociology	4 s.h.
SOC 367	Social Psychology	4 s.h.
BUS 238	Introduction to Computers	3 s.h.
		<hr/>
		19 s.h.

Areas of Specialization

Administration/Management:

Core courses plus:

BUS 236	Principles of Management	3 s.h.
BUS 316	Human Behavior & Leadership	2 s.h.
PSC 310	Introduction to Public Administration	4 s.h.
SOC 233	Interviewing Techniques	3 s.h.
	Electives	3 s.h.
		<hr/>
		15 s.h.

Corrections:

Core courses plus:

CJ 121	Introduction to Corrections	3 s.h.
CJ 235	Probation & Parole	3 s.h.
CJ 280	Principles & Methods of Corrections I	3 s.h.
CJ 281	Principles & Methods of Corrections II	3 s.h.
CJ 402	Human Relations for Corrections	3 s.h.
		<hr/>
		15 s.h.

Law Enforcement:

Core courses plus:

CJ 211	Law Enforcement Administration	3 s.h.
CJ 305	Criminal Procedure	3 s.h.
CJ 311	Criminal Investigation	3 s.h.
CJ 323	Juvenile Justice	3 s.h.
CJ 401	Crime Prevention & Police Community Relations	3 s.h.
		<hr/>
		15 s.h.

Criminal Justice Major - Associate Degree (24-28 s.h.)

Required Major Core Courses:

CJ 102	Introduction to Criminal Justice	3 s.h.
CJ 201	Criminal Justice Organization & Administration	3 s.h.
CJ 265	Criminal Law	3 s.h.
CJ 321	Principles of Criminology	3 s.h.
		<hr/>
		12 s.h.

Required Support Course:

SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
---------	---	--------

Areas of Specialization

Administration/Management:

Core courses plus:

BUS 236	Principles of Management	3 s.h.
BUS 316	Human Behavior & Leadership	2 s.h.
SOC 233	Interviewing Techniques	3 s.h.
		<hr/>
		8 s.h.

Corrections:

Core courses plus:

CJ 121	Introduction to Corrections	3 s.h.
CJ 280	Principles & Methods of Corrections I	3 s.h.
CJ 281	Principles & Methods of Corrections II	3 s.h.
		<hr/>
		9 s.h.

Law Enforcement:

Core courses plus:

CJ 305	Criminal Procedure	3 s.h.
CJ 311	Criminal Investigation	3 s.h.
CJ 323	Juvenile Justice	3 s.h.
CJ 401	Crime Prevention & Police Community Relations	3 s.h.
		<hr/>
		12 s.h.

Criminal Justice Minor (20 s.h.)

Required Minor Courses:

CJ 102	Introduction to Criminal Justice	3 s.h.
CJ 201	Criminal Justice Organization & Administration	3 s.h.
CJ 265	Criminal Law	3 s.h.
CJ 321	Principles of Criminology	3 s.h.
	Minor Electives	8 s.h.
		<hr/>
		20 s.h.

Criminal Justice/Corrections - Certificate of Achievement (30 s.h.)

Required Courses:

CJ 102	Introduction to Criminal Justice	3 s.h.
CJ 121	Introduction to Corrections	3 s.h.
CJ 265	Criminal Law	3 s.h.

CJ 280	Principles & Methods of Corrections I	3 s.h.
CJ 281	Principles & Methods of Corrections II	3 s.h.
CJ 321	Principles of Criminology	3 s.h.
ENG 101	Communication Skills I	3 s.h.
	Criminal Justice Electives	9 s.h.
		<hr/> 30 s.h.

Criminal Justice/Law Enforcement - Certificate of Achievement (30 s.h.)

Required Courses:

CJ 102	Introduction to Criminal Justice	3 s.h.
CJ 265	Criminal Law	3 s.h.
CJ 305	Criminal Procedure	3 s.h.
CJ 311	Criminal Investigation	3 s.h.
CJ 321	Principles of Criminology	3 s.h.
CJ 323	Juvenile Justice	3 s.h.
CJ 401	Crime Prevention & Police Community Relations	3 s.h.
	Criminal Justice Electives	6 s.h.
ENG 101	Communication Skills I	3 s.h.
		<hr/> 30 s.h.

DIETETICS

Dietetics Major - Plan V (ADA) (42 s.h.)

Required Major Courses:

FCR 225	Human Nutrition	4 s.h.
FCR 226	Introductory Food Science	4 s.h.
FCR 325	Clinical Nutrition I	4 s.h.
FCR 326	Advanced Food Science	4 s.h.
FCR 338	Methods in Nutrition Education	3 s.h.
FCR 346	Food Service Management I	3 s.h.
FCR 376	Food Service Laboratory	2 s.h.
FCR 425	Advanced Human Nutrition	4 s.h.
FCR 438	Community Nutrition	2 s.h.
FCR 442	Clinical Nutrition II	2 s.h.
FCR 446	Food Service Management II	3 s.h.
FCR 495	Seminar in Dietetics	2 s.h.
	Major Electives	5 s.h.
		<hr/> 42 s.h.

Required Support Courses:

BIO 224	Basic Human Physiology	4 s.h.
BIO 226	Microbiology	4 s.h.
BUS 236	Principles of Management	3 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 361	Biochemistry I	4 s.h.
CIS 238	Introduction to Computers	3 s.h.
ECN 271	Economics for Human Services	3 s.h.
MTH 115	Contemporary Mathematics	3 s.h.
SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
		<hr/> 36 s.h.

EDUCATION

The Madonna College 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 College recommends students for both provisional (initial) certification and continuing certification, as well as for additional endorsements to existing certificates. The College also recommends students for Vocational Authorizations and endorsements in Trade & Industry, Health Occupations, and Home Economics & Family Life.

Initial (Provisional) Teacher Certification Programs

Students may complete requirements for either elementary provisional certification (K-8) or secondary provisional certification (7-12). Majors in Art, Computer Science, or Music 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 College, since the following four sets of requirements must be met:

1. General Education (see Plan of Study section of this bulletin). 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 101 Introduction to Sociology & Cultural Anthropology 4 s.h.

Elementary Certification:

ENG 300 Children's Literature & Drama 4 s.h.

NSC 373 Science Foundations I: Chemistry & Life Science 4 s.h.

NSC 374 Science Foundations II: Astronomy, Earth Science & Physics 4 s.h.

PSC 251 or American Government 4 s.h.

GEO 301 World Regional Geography 4 s.h.

SOC 101 Introduction to Sociology & Cultural Anthropology 4 s.h.

2. Teaching Major (must be selected from the listing of Madonna College Teacher Education Programs).

3. Teaching Minor. Secondary candidates must select a minor from the Madonna College Teacher Education Programs. Elementary candidates must complete the Elementary Curriculum minor (Elementary Planned Program).

The Elementary Planned Program consists of the following courses:

EDU 243 Mathematics Foundations 4 s.h.

EDU 300 Children's Literature & Drama 4 s.h.

EDU 307 Social Studies Foundations 3 s.h.

EDU 309 Music for the Classroom Teacher 2 s.h.

EDU 316 Art for the Elementary School Teacher 2 s.h.

EDU 335 Language Arts & Linguistics Foundations 3 s.h.

EDU 374 Science Foundations II: Earth Science, Physics & Astronomy 4 s.h.

22 s.h.

4. The Professional Education sequence consists of following courses:

EDU 200	Introduction to Professional Education Experiences	3 s.h.
EDU 312	Educational Psychology	4 s.h.
EDU 321	Principles of Reading Instruction	3 s.h.
EDU 330	The Exceptional Learner in the Classroom	3 s.h.
EDU 346	Instructional Media	2 s.h.
EDU 382	Reading in the Curriculum	3 s.h.
EDU 440*	Behavior Management in the Classroom	2 s.h.
	Theory & Techniques of Instruction - to be chosen from:	4 s.h.
	EDU 449 Middle School (5-9) (4 s.h.)	
	EDU 450 Elementary School (K-8) (4 s.h.)	
	EDU 451 Art (K-12) (4 s.h.)	
	EDU 452 Communication Arts (7-12) (4 s.h.)	
	EDU 453 Foreign Languages (7-12) (4 s.h.)	
	EDU 454 Home Economics & Family Life (7-12) (4 s.h.)	
	EDU 455 Mathematics (7-12) (4 s.h.)	
	EDU 456 Music (K-12) (4 s.h.)	
	EDU 457 Natural Science (7-12) (4 s.h.)	
	EDU 458 Social Science (7-12) (4 s.h.)	
	EDU 459 Vocational Subjects (9-12) (4 s.h.)	
	EDU 461 Computer Science (K-12) (4 s.h.)	
	Directed Teaching - to be chosen from:	8 s.h.
	EDU 468 Computer Science (K-12) (4,8 s.h.)	
	EDU 469 Middle Schools (5-9) (4,8 s.h.)	
	EDU 470 Elementary School (K-8) (4,8 s.h.)	
	EDU 471 Art (K-12) (4,8 s.h.)	
	EDU 472 Communication Arts (7-12) (4,8 s.h.)	
	EDU 473 Foreign Languages (7-12) (4,8 s.h.)	
	EDU 474 Home Economics & Family Life (7-12) (4,8 s.h.)	
	EDU 475 Mathematics (7-12) (4,8 s.h.)	
	EDU 476 Music (K-12) (4,8 s.h.)	
	EDU 477 Natural Science (7-12) (4,8 s.h.)	
	EDU 478 Social Science (7-12) (4,8 s.h.)	
	EDU 479 Vocational/Technical (9-12) (4,8 s.h.)	
EDU 480	Foundations of Education	3 s.h.
EDU 481	Seminar Directed Teaching	1 s.h.
		<hr/> 36 s.h.

*Not required for Early Childhood Education minor.

K-12 Programs:

All candidates for K-12 certification in Art, Music, or Computer Science will fulfill the requirements for their certificate levels (elementary or secondary) as well as additional methods and Directed Teaching requirements for the other level.

Example: Elementary Certification with K-12 Endorsement in Art or Music.

EDU 450 and	Theory & Techniques of Instruction: Elementary School (K-8)	4 s.h.
EDU 451 or	Theory & Techniques of Instruction: Art (K-12)	4 s.h.
EDU 456	Theory & Techniques of Instruction: Music (K-12)	4 s.h.

EDU 470 and	Directed Teaching: Elementary School (K-8)	4 s.h.
EDU 471 or	Directed Teaching: Art (K-12)	8 s.h.
EDU 476	Directed Teaching: Music (K-12)	8 s.h.

Secondary Certification with K-12 Endorsement in Art, Music or Computer Science.

EDU 451 or	Theory & Techniques of Instruction: Art (K-12)	4 s.h.
EDU 456 or	Theory & Techniques of Instruction: Music (K-12)	4 s.h.
EDU 461	Theory & Techniques of Instruction: Computer Science (K-12)	2,4 s.h.
EDU 468 or	Directed Teaching: Computer Science (K-12)	8 s.h.
EDU 471 or	Directed Teaching: Art (K-12)	8 s.h.
EDU 476	Directed Teaching: Music (K-12)	8 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 College.

Apply for admission to the Teacher Education program during the semester of enrollment in EDU 200 (the third or fourth semester for full-time students).

Meet the following criteria for admission and retention in the program:

1. 2.5 or higher grade point average;
2. 3 semester hours of EDU 200 with a grade of C or better;
3. proficiency in use of communication skills, as well as other skills related to general education content, to be established through the Teacher Education Program Basic Skills Tests, as well as other measures;
4. two recommendations (one from major advisor) 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 will be evaluated on an individual basis but must complete a minimum of 20 semester hours at Madonna College before being recommended for initial certification.

Admission to Directed Teaching:

The student applies for admission to Directed Teaching at least one semester in advance, according to posted deadlines. At this time the student will submit evidence of the following:

1. Academic competency as evidenced by a grade point average of 2.5 or better;
2. Attainment of a grade of C or better in professional education courses, major, minor, or planned program;
3. Evidence of growth in professional teaching competence;
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 2.5 or better to be retained in the program, and they must be recommended for certification by the Teacher Education Committee.

Programs for Certified Teachers

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

1. Middle School (5-9)

The middle school endorsement is a minimum 18 s.h. endorsement having both generic requirements and subject matter requirements. Note that since 1987 middle school endorsements may be given in individual subject fields only. If the teacher's subject matter area needs strengthening, the middle school endorsement program may exceed 18 s.h. The generic requirements are:

PSY 313	Adolescent Psychology	4 s.h.
EDU 321	Principles of Reading Instruction	3 s.h.
EDU 382	Reading in the Curriculum	3 s.h.
EDU 449	Theory & Techniques of Instruction: Middle School (5-9)	4 s.h.
EDU 469	Directed Teaching: Middle School (5-9)	4 s.h.

2. Reading Improvement (K-8) or (7-12) - Minor Only

A 24 s.h. planned program selected from the following courses:

EDU 321	Principles of Reading Instruction	3 s.h.
EDU 372	Diagnosis & Remedial Techniques in Reading	3 s.h.
EDU 382	Reading in the Curriculum	3 s.h.
EDU 485	Reading Practicum	2-4 s.h.
ENG 300	Children's Literature & Drama	4 s.h.
FCR 310	Language Development in Early Childhood	3 s.h.
PSY 101	General Psychology	3 s.h.
SED 401	Speech & Language Development & Disorders in Children	3 s.h.

3. ZA Endorsement

Early Childhood Pre-K and K. An 18 s.h. program planned with the Department of Family & Consumer Resources.

4. Special Education Endorsement Programs

See Special Education section.

5. 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.

6. Additional Major or Minor

May be planned in any academic area certifiable through Madonna College (see table for Teacher Education Programs).

For all Planned Programs, the student must take a minimum of 12 s.h. at Madonna College in order for the College to make the certificate recommendation to the Michigan Department of Education. Transfer credits from accredited four-year institutions will be evaluated on an individual basis.

Students 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 planned programs are admitted to Madonna College as post-degree students and pay undergraduate tuition. Graduate credit is not required by the Michigan Department of Education for these endorsement programs.

MADONNA COLLEGE 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 (Major, K-12)	G	G	G	G
Biology	X	X	X	X
Chemistry	X	X	X	X
Child Care & Guidance (Voc.)			X	
Communication Arts	G	G	G	G
Computer Science (Major, K-12)			G	G
English	X	X	X	X
English-Journalism	G	G	G	G
English-Speech	G	G	G	G
French	X	X	X	X
General Science	G			
Health Occupations (Voc.)			X	
History	X	X	X	X
Home Economics (Voc.)			X	X
Home Economics & Family Life	X		X	
Journalism		X		X
Learning Disabilities	G		G	
Mathematics	X	X	X	X
Music Education (Major, K-12)	G	G	G	G
Natural Science		G	G	G
Physics		X		X
Polish		X		X
Political Science		X		X
Reading (K-8) or (7-12)		G		G
Social Science	G	G	G	G
Sociology	X	X	X	X
Spanish	X	X	X	X
Speech		X		X
Trade & Industry (Voc.)			X	

X = Major, minimum 30-32 s.h.; minor, minimum 20 s.h.

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

EMERGENCY MEDICAL TECHNOLOGY

Emergency Medical Technology Major - Associate Degree (32 s.h.)

Required Major Courses:

EMT 101	Advanced First Aid/First Responder	3 s.h.
EMT 155	Basic EMT	10 s.h.
EMT 233	Pharmacology	3 s.h.
EMT 278	Specialized Practice in EMT	6 s.h.
EMT 294	Advanced Practice in EMT	10 s.h.
		<hr/>
		32 s.h.

Required Support Courses:

AHM 101	Medical Terminology	2 s.h.
BIO 243	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
		<hr/>
		8 s.h.

1. Basic life support competency (Basic EMT): Advanced First Aid, EMT 155.
2. Limited life support competency (EMT Specialist): EMT 278, BIO 243, 244.
3. Advanced life support competency (Advanced EMT): EMT 233, 278, 294, BIO 243, 244.

Admission Requirements

1. Students enrolled in any of the EMT programs will have to meet all College requirements for admission.
2. Interview with the department chairperson before acceptance to the program.
3. Proof of complete health assessment including TB skin test and/or chest X-ray prior to clinical experience.
4. Good physical health is mandatory in order to meet the following demands as an EMT as stated by the United States Department of Transportation:
 - a. Manual dexterity, physical coordination, fine manual skills in carrying, lifting, climbing, extricating, hoisting, and other similar maneuvers.
 - b. Visual acuity (correction by lenses permitted).

Retention Requirements

To be retained in the EMT program, the student must meet the following:

1. Grade point average of 2.0 or higher.
2. Proficiency in communication skills.
3. Evidence of personal integrity, emotional stability, and positive attitude.

The College reserves the right to request the student's withdrawal from the program because of unsatisfactory performance in the theory component and for inappropriate behavior and/or lack of competence in the clinical setting.

ENGINEERING

Students may earn an engineering degree through special consortial arrangements between Madonna College and the University of Detroit. Following a planned program fulfilling the degree requirements of each institution, the student may earn a Bachelor of Science degree from Madonna College and a Bachelor of Engineering degree from the University of Detroit.

After the second year, students may combine academic courses and cooperative training in industry.

This program is under the direction of the Department of Chemistry-Physics.

ENGLISH

English Major (36 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
ENG 300	Children's Literature & Drama*	4 s.h.
ENG 301 or	Major American Writers: Beginnings to 1900	4 s.h.
ENG 302	Major American Writers: 1900 to Present	4 s.h.
ENG 361 or	Major British Writers: Chaucer to Johnson	4 s.h.
ENG 362	Major British Writers: Blake to Eliot	4 s.h.
ENG 475	Studies in Literature	4 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Electives in Literature	15 s.h.
		<hr/> 36 s.h.

*Required for prospective elementary teachers only.

English Major - Associate Degree (24 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
ENG 301 or	Major American Writers: Beginnings to 1900	4 s.h.
ENG 302	Major American Writers: 1900 to Present	4 s.h.
ENG 361 or	Major British Writers: Chaucer to Johnson	4 s.h.
ENG 362	Major British Writers: Blake to Eliot	4 s.h.
	Major Electives in Literature	12 s.h.
		<hr/> 24 s.h.

English Minor (20 s.h.)

Required Minor Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
	Minor Electives in Literature	16 s.h.
		<hr/> 20 s.h.

English/Journalism Major (36 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.

JRN 357	Editing & Copyreading	3 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Electives in English	13-14 s.h.
	Major Electives in Journalism	11-12 s.h.
		<hr/> 36 s.h.

English/Journalism Major - Associate Degree (24 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 357	Editing & Copyreading	3 s.h.
	Major Electives in English	8 s.h.
	Major Electives in Journalism	6 s.h.
		<hr/> 24 s.h.

English/Journalism Minor (24 s.h.)

Required Minor Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 357	Editing & Copyreading	3 s.h.
	Minor Electives in English	8 s.h.
	Minor Electives in Journalism	6 s.h.
		<hr/> 24 s.h.

English/Speech Major (36 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
SPH 105	Speech Communication	3 s.h.
HUM 495	Senior Seminar	1 s.h.
	Electives in English	13-14 s.h.
	Electives in Speech	14-15 s.h.
		<hr/> 36 s.h.

English/Speech Major - Associate Degree (24 s.h.)

Required Major Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
SPH 105	Speech Communication	3 s.h.
	Electives in English	8 s.h.
	Electives in Speech	9 s.h.
		<hr/> 24 s.h.

English/Speech Minor (24 s.h.)

Required Minor Courses:

ENG 295	Critical Writing & Literary Analysis	4 s.h.
SPH 105	Speech Communication	3 s.h.
	Minor Electives in English	8 s.h.
	Minor Electives in Speech	9 s.h.
		<hr/> 24 s.h.

FASHION MERCHANDISING

Fashion Merchandising Major (39 s.h.)

Required Major Courses:

FCR 109	Fashion Industry	3 s.h.
FCR 233	Fashion Design Principles	3 s.h.
FCR 236	Clothing Selection & Construction	4 s.h.
FCR 262	Fashion Promotion & Coordination	3 s.h.
FCR 291	Co-op	2 s.h.
FCR 305	Textiles	4 s.h.
FCR 331	History of Costume	3 s.h.
FCR 347	Retailing	3 s.h.
FCR 363	Housing & Interior Design	4 s.h.
FCR 432	Fashion Merchandising	3 s.h.
FCR 491	Co-op	2 s.h.
FCR 495	Seminar	2 s.h.
	Major Electives - to be chosen from:	3 s.h.
	FCR 301 Specialty Merchandising (3 s.h.)	
	FCR 308 Visual Merchandising (3 s.h.)	
	FCR 335 Advanced Clothing & Tailoring (4 s.h.)	
		<hr/> 39 s.h.

Required Support Courses:

BUS 216	Human Behavior & Attitudes	2 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 255	Consumer Behavior	3 s.h.
BUS 307	Promotional Strategy	3 s.h.
BUS 310	Introduction to Personnel Administration	3 s.h.
BUS 316	Human Behavior & Leadership	2 s.h.
		<hr/> 19 s.h.

Fashion Merchandising - Associate Degree (25 s.h.)

Required Major Courses:

FCR 109	Fashion Industry	3 s.h.
FCR 233	Fashion Design Principles	3 s.h.
FCR 262	Fashion Promotion & Coordination	3 s.h.
FCR 291	Co-op	2 s.h.
FCR 305	Textiles	4 s.h.
FCR 331	History of Costume	3 s.h.
FCR 347	Retailing	3 s.h.
	Major Electives	4 s.h.
		<hr/> 25 s.h.

Required Support Courses:

BUS 216	Human Behavior & Attitudes	2 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
		<hr/> 8 s.h.

Fashion Merchandising - Certificate of Achievement (30 s.h.)

Required Major Courses:

BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
ENG 101	Communication Skills I	3 s.h.
FCR 109	Fashion Industry	3 s.h.
FCR 233	Fashion Design Principles	3 s.h.
FCR 262	Fashion Promotion & Coordination	3 s.h.
FCR 291	Co-op	2 s.h.
FCR 305	Textiles	4 s.h.
	Major Electives	6 s.h.
		<hr/>
		30 s.h.

Fashion Merchandising - Post-Degree Certificate (30 s.h.)

Required Courses:

BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
FCR 109	Fashion Industry	3 s.h.
FCR 233	Fashion Design Principles	3 s.h.
FCR 262	Fashion Promotion & Coordination	3 s.h.
FCR 291	Co-op	2 s.h.
FCR 305	Textiles	4 s.h.
	Major Electives	9 s.h.
		<hr/>
		30 s.h.

Fashion Merchandising Minor (21 s.h.)

Required Minor Courses:

FCR 109	Fashion Industry	3 s.h.
FCR 233	Fashion Design Principles	3 s.h.
FCR 262	Fashion Promotion & Coordination	3 s.h.
FCR 291	Co-op	2 s.h.
FCR 305	Textiles	4 s.h.
FCR 347	Retailing	3 s.h.
FCR 432	Fashion Merchandising	3 s.h.
		<hr/>
		21 s.h.

FINANCIAL ADMINISTRATION

Financial Administration Major (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 242	Principles of Financial Administration	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 303	Intermediate Accounting I	3 s.h.
BUS 304	Intermediate Accounting II	3 s.h.
BUS 315	Business Finance	3 s.h.
BUS 333	Business Law	3 s.h.

BUS 355	Applied Business Statistics	4 s.h.
BUS 371	Institutional Portfolio Management	3 s.h.
BUS 395	Business & Society	3 s.h.
BUS 464	Managerial Finance	3 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
CIS 330	Information Systems for Decision Making	2 s.h.
ECN 380	Money & Banking	3 s.h.
ECN 454	Intermediate Macroeconomics	3 s.h.
	Major Electives - to be chosen from:	6 s.h.
	BUS 314 International Business (3 s.h.)	
	BUS 358 Taxation I (3 s.h.)	
	BUS 361 Taxation II (3 s.h.)	
	BUS 419 Special Problems in Financial Administration (1-4)	
	BUS 435 International Trade & Finance (3 s.h.)	
	BUS 442 Business Research (4 s.h.)	
	CIS 432 Audit & Control of Accounting & Information Systems (2 s.h.)	
		<hr/> 62 s.h.

Required Support Courses:

ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/> 20 s.h.

FINE ARTS

Fine Arts Major (45 s.h.)

Required Major Courses:

ART 105	The Visual Arts in 2-D	4 s.h.
ART 207	Creative Design & Color	4 s.h.
ART 275 or	Painting & Composition	3 s.h.
ART 280	Creative Watercolor	3 s.h.
ART 325*	Art History: Ancient to Renaissance	4 s.h.
ART 326*	Art History: Renaissance to 20th Century	4 s.h.
ART 346	Relief & Silkscreen Printing	3 s.h.
ART 408	Three Dimensional Forms	4 s.h.
ART 415	Modern Art	4 s.h.
ART 447 or	Intaglio (Etching)	3 s.h.
ART 448	Lithography	3 s.h.
ART 495	Senior Seminar	1 s.h.
	Major Electives - to be chosen from:	11 s.h.
	ART 305 Lettering & Calligraphy (3 s.h.)	

4 s.h.
 3 s.h.
 3 s.h.
 3 s.h.
 3 s.h.
 3 s.h.
 2 s.h.
 3 s.h.
 3 s.h.
 6 s.h.

- ART 313 Photography I (3 s.h.)
- ART 314 Photography II (3 s.h.)
- ART 330 Advanced Drawing (3 s.h.)
- ART 331 Advanced Painting (3 s.h.)
- ART 335 Art & Culture of Asia (3 s.h.)
- ART 339 Oriental Brushwork (2 s.h.)
- ART 440, 441 Studio Electives (2-4 s.h.)
- ART 475 Studies in Art History (3 s.h.)

45 s.h.

Fine Arts Major - Associate Degree (30 s.h.)

Required Major Courses:

- ART 105 The Visual Arts in 2-D 4 s.h.
- ART 207 Creative Design & Color 4 s.h.
- ART 275 or Painting & Composition 3 s.h.
- ART 280 Creative Watercolor 3 s.h.
- ART 325* Art History: Ancient to Renaissance 4 s.h.
- ART 326* Art History: Renaissance to 20th Century 4 s.h.
- ART 346 and Relief & Silkscreen Printing 3 s.h.
- ART 447 or Intaglio (Etching) 3 s.h.
- ART 448 Lithography 3 s.h.
- ART 408 Three Dimensional Forms 4 s.h.
- Electives 1 s.h.

30 s.h.

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

Fine Arts Minor (24 s.h.)

Required Minor Courses:

- ART 105 The Visual Arts in 2-D 4 s.h.
- ART 207 Creative Design & Color 4 s.h.
- ART 275 Painting & Composition 3 s.h.
- ART 326 or Art History: Renaissance to 20th Century 4 s.h.
- ART 415 Modern Art 4 s.h.
- ART 346 or Relief & Silkscreen Printing 3 s.h.
- ART 447 or Intaglio (Etching) 3 s.h.
- ART 448 Lithography 3 s.h.
- ART 408 Three Dimensional Forms 4 s.h.
- Electives 2 s.h.

24 s.h.

Certificate of Achievement is also available.

A comprehensive portfolio/exhibit representative of the student's growth in a particular medium is required of ALL ART MAJORS. Advanced placement credit is based upon evaluation of a portfolio of previous art work.

Madonna College also offers programs in Commercial Art.

*Substitutes for general education requirement of ART 202.

FIRE SCIENCE

Fire Science Major (30 s.h.)

Required Major Courses:

FS 101	Introduction to Fire Protection & Prevention	3 s.h.
FS 215	Building Construction	3 s.h.
FS 291 or	Co-op I*	1-3 s.h.
FS 293	Internship I*	1-3 s.h.
FS 350	Hydraulics & Water Supply	3 s.h.
FS 368	Fire Protection Systems I	3 s.h.
FS 369	Fire Protection Systems II	3 s.h.
FS 391 or	Co-op II**	1-3 s.h.
FS 393	Internship II**	1-3 s.h.
FS 440	Tactics & Strategy	3 s.h.
FS 451	Hazardous Materials	2 s.h.
FS 495	Senior Seminar	3 s.h.
	Major Electives	1-5 s.h.
		<hr/> 30 s.h.

Required Support Courses:

CHM 111	General Chemistry I	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 16-19 s.h.

Fire Science Major - Associate Degree (24 s.h.)

Required Major Courses:

FS 101	Introduction to Fire Protection & Prevention	3 s.h.
FS 215	Building Construction	3 s.h.
FS 291 or	Co-op I*	1-3 s.h.
FS 293	Internship I*	1-3 s.h.
FS 350	Hydraulics & Water Supply	3 s.h.
FS 368	Fire Protection Systems I	3 s.h.
FS 369	Fire Protection Systems II	3 s.h.
FS 440	Tactics & Strategy	3 s.h.
FS 451	Hazardous Materials	3 s.h.
	Major Electives	0-2 s.h.
		<hr/> 24 s.h.

Required Support Courses:

CHM 111	General Chemistry I	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 16-19 s.h.

*Required for preservice associate and baccalaureate students.

**Required for preservice baccalaureate students.

Fire Science Minor (20 s.h.)

Required Minor Courses:

3 s.h.	FS 101	Introduction to Fire Protection & Prevention	3 s.h.
3 s.h.	FS 215	Building Construction	3 s.h.
3 s.h.	FS 350	Hydraulics & Water Supply	3 s.h.
3 s.h.	FS 368	Fire Protection Systems I	3 s.h.
3 s.h.	FS 451	Hazardous Materials	3 s.h.
3 s.h.		Minor Electives	5 s.h.
3 s.h.			<hr/>
3 s.h.			20 s.h.

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

Required Courses:

3 s.h.	ENG 101	Communication Skills I	3 s.h.
3 s.h.	FS 101	Introduction to Fire Protection & Prevention	3 s.h.
2 s.h.	FS 215	Building Construction	3 s.h.
5 s.h.	FS 350	Hydraulics & Water Supply	3 s.h.
30 s.h.	FS 368	Fire Protection Systems I	3 s.h.
4 s.h.	FS 369	Fire Protection Systems II	3 s.h.
4 s.h.	FS 451	Hazardous Materials	3 s.h.
3 s.h.		Electives	9 s.h.
4 s.h.			<hr/>
4 s.h.			30 s.h.

Occupational Safety, Health & Fire Science Major (39 s.h.)

Required Major Courses:

3 s.h.	FS 101	Introduction to Fire Protection & Prevention	3 s.h.
3 s.h.	FS 215	Building Construction	3 s.h.
3 s.h.	FS 291 or	Co-op I*	1-3 s.h.
3 s.h.	FS 293	Internship I*	1-3 s.h.
3 s.h.	FS 322	Inspection & Survey of Facilities	3 s.h.
3 s.h.	FS 368	Fire Protection Systems I	3 s.h.
3 s.h.	FS 369	Fire Protection Systems II	3 s.h.
3 s.h.	FS 391 or	Co-op II**	1-3 s.h.
3 s.h.	FS 393	Internship II**	1-3 s.h.
3 s.h.	FS 451	Hazardous Materials	3 s.h.
3 s.h.	FS 495	Senior Seminar	2 s.h.
2 s.h.	OSH 102	Standards & Regulations	3 s.h.
4 s.h.	OSH 331 or	Safety Program Management	3 s.h.
3 s.h.	FS 490	Fire Service Management	3 s.h.
3 s.h.	OSH 352	Industrial Hygiene I	3 s.h.
3 s.h.	OSH 398	Industrial Hygiene II	3 s.h.
3 s.h.		Major Electives	1-7 s.h.
3 s.h.			<hr/>
3 s.h.			39 s.h.

Required Support Courses:

3 s.h.	BIO 224 or	Basic Human Physiology	4 s.h.
3 s.h.	BIO 243 and	Anatomy & Physiology I	3 s.h.
3 s.h.	BIO 244 or	Anatomy & Physiology II	3 s.h.
3 s.h.	NSC 125	Health Problems	4 s.h.

CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 24-29 s.h.

Occupational Safety, Health & Fire Science Major - Associate Degree (30 s.h.)

Required Major Courses:

FS 101	Introduction to Fire Protection & Prevention	3 s.h.
FS 215	Building Construction	3 s.h.
FS 291 or	Co-op I*	1-3 s.h.
FS 293	Internship I*	1-3 s.h.
FS 322	Inspection & Survey of Facilities	3 s.h.
FS 368	Fire Protection Systems I	3 s.h.
FS 369	Fire Protection Systems II	3 s.h.
FS 451	Hazardous Materials	3 s.h.
OSH 102	Standards & Regulations	3 s.h.
OSH 331 or	Safety Program Management	3 s.h.
FS 490	Fire Service Management	3 s.h.
OSH 352	Industrial Hygiene I	3 s.h.
	Major Electives	<hr/> 2-3 s.h.
		30 s.h.

Required Support Courses:

BIO 224 or	Basic Human Physiology	4 s.h.
BIO 243 and	Anatomy & Physiology I	3 s.h.
BIO 244 or	Anatomy & Physiology II	3 s.h.
NSC 125	Health Problems	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 24-29 s.h.

*Required for preservice associate and baccalaureate students.

**Required for preservice baccalaureate students.

FOOD SERVICE MANAGEMENT

Food Service Management Major (36 s.h.)

Required Major Courses:

FCR 225	Human Nutrition	4 s.h.
FCR 226	Introductory Food Science	4 s.h.
FCR 246	Residential Management	3 s.h.

3 s.h.	FCR 276	Food Service Sanitation	1 s.h.
3 s.h.	FCR 326	Advanced Food Science	4 s.h.
3 s.h.	FCR 346	Food Service Management I	3 s.h.
3 s.h.	FCR 376	Food Service Laboratory	2 s.h.
3 s.h.	FCR 446	Food Service Management II	3 s.h.
3 s.h.	FCR 476	Food Service Management III	2 s.h.
4 s.h.		Major Electives	10 s.h.
9 s.h.			<hr/> 36 s.h.

Required Support Courses:

3 s.h.)	BIO 224	Basic Human Physiology	4 s.h.
3 s.h.)	BUS 201	Principles of Accounting I	4 s.h.
3 s.h.)	BUS 236	Principles of Management	3 s.h.
3 s.h.)	BUS 238	Introduction to Computers	3 s.h.
3 s.h.)	BUS 310	Introduction to Personnel Administration	3 s.h.
3 s.h.)	ECN 271	Economics for Human Services	3 s.h.
3 s.h.)			<hr/> 20 s.h.

Food Service Management Minor (20 s.h.)

Required Minor Courses:

3 s.h.)	FCR 226	Introductory Food Science	4 s.h.
3 s.h.)	FCR 246	Residential Management	3 s.h.
3 s.h.)	FCR 276	Food Service Sanitation	1 s.h.
3 s.h.)	FCR 346	Food Service Management I	3 s.h.
3 s.h.)	FCR 376	Food Service Laboratory	2 s.h.
3 s.h.)	FCR 446	Food Service Management II	3 s.h.
3 s.h.)	FCR 476	Food Service Management III	2 s.h.
3 s.h.)		Minor Electives	2 s.h.
3 s.h.)			<hr/> 20 s.h.

Required Support Courses:

3 s.h.)	BUS 236	Principles of Management	3 s.h.
3 s.h.)	BUS 238	Introduction to Computers	3 s.h.
3 s.h.)			<hr/> 6 s.h.

FRENCH

French Major (30 s.h.) beyond elementary level; some courses must be taken on a consortial basis.

Not applicable toward major: FRE 101, 102, 300.

French Minor (20 s.h.) beyond elementary level.

GENERAL SCIENCE

General Science Major (38 s.h.)

Required Major Courses:

3 s.h.)	BIO 103	General Biology I	4 s.h.
3 s.h.)	BIO 104	General Biology II	4 s.h.
3 s.h.)	BIO 224	Basic Human Physiology	4 s.h.

CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
NSC 216	Earth Science	4 s.h.
NSC 303	Oceans	4 s.h.
GSC 495	Senior Seminar	2 s.h.
		<hr/> 38 s.h.

Required Support Courses:

MTH 105 and Intermediate Algebra	4 s.h.
MTH 106 or Trigonometry	3 s.h.
MTH 121 Precalculus	4 s.h.
	<hr/> 4-7 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.

GERONTOLOGY

Gerontology Major (42 s.h.)

Required Major Courses:

GER 107	Introduction to Gerontology	3 s.h.
GER 230	Issues in Aging	3 s.h.
GER 302	Program Planning for Older Adults	3 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 315	Physical Aspects of Aging	3 s.h.
GER 415	Social Gerontology	3 s.h.
GER 425	Public Policy & Resources in Aging	3 s.h.
GER 476	Field Placement	4 s.h.
GER 477	Field Seminar	2 s.h.
GER 495	Gerontology Senior Seminar	3 s.h.
	Major Electives	12 s.h.
		<hr/> 42 s.h.

Gerontology Major - Associate Degree (30 s.h.)

Required Major Courses:

GER 107	Introduction to Gerontology	3 s.h.
GER 230	Issues in Aging	3 s.h.
GER 302	Program Planning for Older Adults	3 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 315	Physical Aspects of Aging	3 s.h.
GER 415	Social Gerontology	3 s.h.
GER 476	Field Placement	4 s.h.
GER 477	Field Seminar	2 s.h.
	Major Electives	6 s.h.
		<hr/> 30 s.h.

s.h.
s.h.
4 s.h.
4 s.h.
4 s.h.
4 s.h.
2 s.h.
8 s.h.
4 s.h.
3 s.h.
4 s.h.
7 s.h.
lable
sional
acher
other
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
4 s.h.
2 s.h.
3 s.h.
2 s.h.
2 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.
3 s.h.

Gerontology - Certificate of Achievement (30 s.h.)

Required Courses:

ENG 101	Communication Skills I	3 s.h.
GER 107	Introduction to Gerontology	3 s.h.
GER 230	Issues in Aging	3 s.h.
GER 302	Program Planning for Older Adults	3 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 415	Social Gerontology	3 s.h.
GER 476	Field Placement	4 s.h.
GER 477	Field Seminar	2 s.h.
	Gerontology Elective	6 s.h.
		<hr/>
		30 s.h.

Gerontology Minor (20 s.h.)

Required Minor Courses:

GER 107	Introduction to Gerontology	3 s.h.
	Minor Electives*	17 s.h.
		<hr/>
		20 s.h.

*Gerontology 476 and 477 may not be used to satisfy the minor elective requirements.

Activity Therapy in Gerontology - Certificate of Achievement (30 s.h.)

Required Courses:

ENG 101	Communication Skills I	3 s.h.
GER 107	Introduction to Gerontology	3 s.h.
GER 210	Physical Education Activities	2 s.h.
GER 219.3	Communication Problems of the Older American	1 s.h.
GER 219.4	Family Support Systems	1 s.h.
GER 246	Working with the Impaired Elderly	2 s.h.
GER 302	Program Planning for Older Adults	3 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 310	Activity Therapy in Gerontology	3 s.h.
GER 350	Counseling the Older Adult	2 s.h.
GER 476	Field Placement	4 s.h.
GER 477	Field Seminar	2 s.h.
	Gerontology Elective	1 s.h.
		<hr/>
		30 s.h.

Mental Health & Aging - Certificate of Achievement (30 s.h.)

Required Courses:

ENG 101	Communication Skills I	3 s.h.
GER 107	Introduction to Gerontology	3 s.h.
GER 215	Mental Health & Aging	2 s.h.
GER 219.3 or	Communication Problems of the Older American	1 s.h.
GER 219.4	Family Support Systems	1 s.h.
GER 230 or	Issues in Aging	3 s.h.
GER 302	Program Planning for Older Adults	3 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 315 or	Physical Aspects of Aging	3 s.h.
GER 415	Social Gerontology	3 s.h.

GER 350	Counseling the Older Adult	2 s.h.
GER 476	Field Placement	4 s.h.
GER 477	Field Seminar	2 s.h.
PSY 342	Abnormal Psychology	4 s.h.
		<hr/> 30 s.h.

All courses have been approved for continuing education credit in the renewal of the Nursing Home Administrator License.

HISTORY

History Major (33 s.h.)

Required Major Courses:

HIS 108 or	Ancient World	4 s.h.
HIS 245	Medieval & Renaissance Europe	4 s.h.
HIS 341	Minority Groups in America	4 s.h.
HIS 453	United States in the Twentieth Century	4 s.h.
HIS 463	Emerging Nations	3 s.h.
HIS 495	History & Social Science Seminar	4 s.h.
	Major Electives	14 s.h.
		<hr/> 33 s.h.

History Minor (20 s.h.)

Required Minor Courses:

HIS 108 or	Ancient World	4 s.h.
HIS 245	Medieval & Renaissance Europe	4 s.h.
HIS 453	United States in the Twentieth Century	4 s.h.
HIS 463	Emerging Nations	3 s.h.
	Minor Electives	9 s.h.
		<hr/> 20 s.h.

Social Science Group Major, History (36 s.h.) including 16 s.h. in History.

HOME ECONOMICS & FAMILY LIFE

Home Economics & Family Life Major (35 s.h.)

Required Major Courses:

FCR 216	Child Development & Guidance	3 s.h.
FCR 225	Human Nutrition	4 s.h.
FCR 226	Introductory Food Science	4 s.h.
FCR 236	Clothing Selection & Construction	4 s.h.
FCR 255	Consumer Behavior	3 s.h.
FCR 305	Textiles	4 s.h.
FCR 327	Family Resources Management	3 s.h.
FCR 353	Marriage & the Family	4 s.h.
FCR 363	Housing & Interior Design	4 s.h.
FCR 495	Seminar	2 s.h.
		<hr/> 35 s.h.

1 s.h.
2 s.h.
3 s.h.
4 s.h.
5 s.h.
ewal
Home Economics & Family Life Minor (23 s.h.)

Required Minor Courses:

FCE 216	Child Development & Guidance	3 s.h.
FCE 225	Human Nutrition	4 s.h.
FCE 226	Introductory Food Science	4 s.h.
FCE 236	Clothing Selection & Construction	4 s.h.
FCE 305	Textiles	4 s.h.
FCE 363	Housing & Interior Design	4 s.h.
		<hr/>
		23 s.h.

Secondary Teacher Certification & Vocational Authorization is available in Home Economics & Family Life.

4 s.h.
4 s.h.
4 s.h.
4 s.h.
3 s.h.
4 s.h.
4 s.h.
3 s.h.

4 s.h.
4 s.h.
3 s.h.
4 s.h.
4 s.h.
3 s.h.

4 s.h.
4 s.h.
3 s.h.
4 s.h.
4 s.h.
3 s.h.
3 s.h.

HOSPICE EDUCATION

Hospice Education Minor (20 s.h.)

Required Minor Courses:

HSP 321	Introduction to Hospice Care Concepts	2 s.h.
HSP 331	Management of the Bereavement Process	2 s.h.
HSP 348	Psychosocial Components of Hospice Care	3 s.h.
HSP 350	Spiritual & Ethical Considerations in Hospice Care	3 s.h.
HSP 353	Comfort & Care for the Hospice Client	3 s.h.
HSP 462	Managing Hospice Services	2 s.h.
HSP 465	Hospice Field Experience	3 s.h.
HSP 475	Emerging Issues in Interdisciplinary Hospice Care	2 s.h.
		<hr/>
		20 s.h.

Recommended Course:

RST 414	Life/Death Issues	2-4 s.h.
---------	-------------------	----------

Hospice Education - Certificate of Achievement (30 s.h.)

Required Courses:

ENG 101	Communication Skills I	3 s.h.
HSP 321	Introduction to Hospice Care Concepts	2 s.h.
HSP 331	Management of the Bereavement Process	2 s.h.
HSP 348	Psychosocial Components of Hospice Care	3 s.h.
HSP 350	Spiritual & Ethical Considerations in Hospice Care	3 s.h.
HSP 353	Comfort & Care for the Hospice Client	3 s.h.
HSP 462	Managing Hospice Services	2 s.h.
HSP 465	Hospice Field Experience	3 s.h.
HSP 475	Emerging Issues in Interdisciplinary Hospice Care	2 s.h.
RST 414	Life/Death Issues	2-4 s.h.
	Electives	3-5 s.h.
		<hr/>
		30 s.h.

Hospice care emphasizes an interdisciplinary approach to palliative assistance for dying patients of all ages. Administrators, psychologists, sociologists, social workers, doctors, nurses, gerontologists, ministers, volunteers, and educators may participate in this systematic program of study that highlights relevant content for all specialists on the hospice team. It is hoped that by learning together the hospice team will provide better service together.

HOSPITALITY MANAGEMENT - Details available September 1990.

HUMANITIES

Humanities Minor (24 s.h.)

Required Minor Courses:

HUM 201 or	The Medium & the Message	4 s.h.
HUM 305	The Idea of Justice	4 s.h.
	Minor Electives (from a minimum of four Humanities disciplines)*	<u>20 s.h.</u>
		24 s.h.

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

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

INTERNATIONAL BUSINESS & ECONOMICS

International Business & Economics Major (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 314	International Business	3 s.h.
BUS 333	Business Law	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 391	Cooperative Education	1 s.h.
BUS 395	Business & Society	3 s.h.
BUS 419	Special Problems in International Business & Culture	1-4 s.h.
BUS 445	International Management	3 s.h.
BUS 491	Cooperative Education	1 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
ECN 435	International Trade & Finance	3 s.h.
ECN 454	Intermediate Macroeconomics	3 s.h.
PSC 301	International Relations	4 s.h.
PSC 321	Comparative Politics	4 s.h.

Major Electives - to be chosen from:

- BUS 242 Principles of Financial Administration (3 s.h.)
- BUS 313 Managerial Accounting (3 s.h.)
- BUS 315 Business Finance (3 s.h.)
- BUS 371 Institutional Portfolio Management (3 s.h.)
- BUS 421 Production & Operations Management (3 s.h.)
- CIS 330 Information Systems for Decision Making (2 s.h.)
- ECN 380 Money & Banking (3 s.h.)
- GEO 301 World Regional Geography (4 s.h.)

62 s.h.

Experience abroad required; competency in a foreign language required.

Required Support Courses:

ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
HIS 432	Diplomatic History of the United States	3 s.h.
HIS 463	Emerging Nations	3 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/>
		26 s.h.

JAPANESE STUDIES

Japanese Studies Minor (24 s.h.)

Required Minor Courses:

JPN 101	Beginning Japanese Language & Culture I	4 s.h.
JPN 102	Beginning Japanese Language & Culture II	4 s.h.
JPN 223	Intermediate Japanese Language & Culture I	4 s.h.
JPN 224	Intermediate Japanese Language & Culture II	4 s.h.
JPN 323	Directed Readings in Japanese	4 s.h.
JPN 331	Japanese Oral & Written Composition	4 s.h.
		<hr/>
		24 s.h.

JOURNALISM & PUBLIC RELATIONS

Journalism & Public Relations Major (46 s.h.)

Required Major Courses:

JRN 121	Introduction to Commercial Art	4 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 286	Editorial & Feature Writing	3 s.h.
JRN 313	Photography I	3 s.h.
JRN 316	Newspaper Production	2 s.h.
JRN 357	Editing & Copyreading	3 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
JRN 416	Advanced Newspaper Production	2 s.h.
JRN 491	Journalism/Public Relations Practicum/Co-op	3-12 s.h.
HUM 495	Senior Seminar	1 s.h.

Major Electives - to be chosen from

ART 207 Creative Design (4 s.h.)	4 s.h.
ART 268 Commercial Art Experiences (4 s.h.)	4 s.h.
ART 361 Advertising Design (4 s.h.)	4 s.h.
ART 425 Advanced Problems in Commercial Art (4 s.h.)	4 s.h.
BUS 244 Principles of Marketing (3 s.h.)	3 s.h.
BUS 255 Consumer Behavior (3 s.h.)	3 s.h.
BUS 307 Promotional Strategy (3 s.h.)	3 s.h.
BUS 387 Sales Management (3 s.h.)	3 s.h.
BUS 415 Marketing Management (3 s.h.)	3 s.h.
ENG 262 Language & Culture (3 s.h.)	3 s.h.
JRN 205 Public Relations Writing (3 s.h.)	3 s.h.
JRN 314 Photography II (3 s.h.)	3 s.h.
JRN 351 Television Production Techniques I (3 s.h.)	3 s.h.
JRN 352 Television Production Techniques II (3 s.h.)	3 s.h.
	<hr/>
	16-19 s.h.
	<hr/>
	46 s.h.

Journalism & Public Relations Major - Associate Degree (24 s.h.)Required Major Courses:

JRN 132	Newspaper Reporting	3 s.h.
JRN 286	Editorial & Feature Writing	3 s.h.
JRN 313	Photography I	3 s.h.
JRN 316	Newspaper Production	2 s.h.
JRN 357	Editing & Copyreading	3 s.h.
	Major Electives in Journalism	10 s.h.
		<hr/> 24 s.h.

Required Support Courses - 6 s.h. to be chosen from:

ART 207	Creative Design & Color	4 s.h.
ART 268	Commercial Art Experiences	4 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 255	Consumer Behavior	3 s.h.
BUS 307	Promotional Strategy	3 s.h.
JRN 291, 391	Practicum/Co-op	1-6 s.h.

Journalism & Public Relations Minor (20 s.h.)Required Minor Courses:

JRN 132	Newspaper Reporting	3 s.h.
JRN 286	Editorial & Feature Writing	3 s.h.
JRN 316	Newspaper Production	2 s.h.
JRN 357	Editing & Copyreading	3 s.h.
JRN 416	Advanced Newspaper Production	2 s.h.
	Minor Electives	7 s.h.
		<hr/> 20 s.h.

LEGAL ASSISTANT**Legal Assistant Major (42 s.h.)**Required Major Courses:

LAW 100	Legal Assistant Orientation	3 s.h.
LAW 101	Legal Research & Writing I	3 s.h.
LAW 121	Legal Research & Writing II	3 s.h.
LAW 257	Litigation	3 s.h.
LAW 357	Law Office Economics & Management	3 s.h.
LAW 495	Legal Seminar & Practicum/Co-op	4-6 s.h.
	Major Electives	21-23 s.h.
		<hr/> 42 s.h.

Legal Assistant Major - Associate Degree (30 s.h.)Required Major Courses:

LAW 100	Legal Assistant Orientation	3 s.h.
LAW 101	Legal Research & Writing I	3 s.h.
LAW 121	Legal Research & Writing II	3 s.h.
LAW 257	Litigation	3 s.h.
LAW 495	Legal Seminar & Practicum/Co-op	4-6 s.h.
	Major Electives	12-14 s.h.
		<hr/> 30 s.h.

Legal Assistant Post-Baccalaureate Certificate (42 s.h.)

Required Major Courses:

3 s.h.	LAW 100	Legal Assistant Orientation	3 s.h.
3 s.h.	LAW 101	Legal Research & Writing I	3 s.h.
3 s.h.	LAW 121	Legal Research & Writing II	3 s.h.
2 s.h.	LAW 257	Litigation	3 s.h.
3 s.h.	LAW 357	Law Office Economics & Management	3 s.h.
0 s.h.	LAW 495	Legal Seminar & Practicum/Co-op	4-6 s.h.
4 s.h.		Major Electives	<u>21-23 s.h.</u>
			42 s.h.

**THE MADONNA COLLEGE LEGAL ASSISTANT PROGRAM IS APPROVED
BY THE AMERICAN BAR ASSOCIATION**

Completion of the Legal Assistant Program degree requirements DOES NOT AUTHORIZE graduates to practice law as an attorney.

Admission to courses other than LAW 100 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 495: Legal Seminar and Practicum, must be completed at Madonna College.

LONG TERM CARE ADMINISTRATION

Long Term Care Administration Major - Bachelor Level (56 s.h.)

Required Courses:

3 s.h.	BUS 201	Principles of Accounting	4 s.h.
3 s.h.	BUS 236	Principles of Management	3 s.h.
3 s.h.	BUS 244	Principles of Marketing	3 s.h.
3 s.h.	BUS 310	Introduction to Personnel Administration	3 s.h.
3 s.h.	BUS 369	Entrepreneurship	3 s.h.
3 s.h.	BUS 419	Special Problems: Budgeting for Long Term Care Institutions	2 s.h.
3 s.h.	BUS 427	Human Resource Development	3 s.h.
3 s.h.	GER 230	Issues in Aging	3 s.h.
3 s.h.	GER 246	Working with the Impaired Elderly	2 s.h.
3 s.h.	GER 307	Psychology of Aging	3 s.h.
3 s.h.	GER 315	Physical Aspects of Aging	3 s.h.
3 s.h.	GER 415	Social Gerontology	3 s.h.
3 s.h.	GER 425	Public Policy & Resources in Aging	3 s.h.
3 s.h.	GER 476	Field Experience	4 s.h.
3 s.h.	GER 477	Field Seminar	2 s.h.
3 s.h.	GER 485	Gerontology Management	3 s.h.
3 s.h.	GER 487	Nursing Home Administration I	3 s.h.
3 s.h.	GER 488	Nursing Home Administration II	3 s.h.
3 s.h.	GER 495	Senior Seminar	<u>3 s.h.</u>
			56 s.h.

Long Term Care Administration Major - Associate Level (35 s.h.)

Required Courses:

BUS 201	Principles of Accounting	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 419	Special Problems: Budgeting for Long Term Care Institutions	2 s.h.
GER 230	Issues in Aging	3 s.h.
GER 246	Working with the Impaired Elderly	2 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 315	Physical Aspects of Aging	3 s.h.
GER 425	Public Policy & Resources in Aging	3 s.h.
GER 485	Gerontology Management	3 s.h.
GER 487	Nursing Home Administration I	3 s.h.
GER 488	Nursing Home Administration II	3 s.h.
		<hr/>
		35 s.h.

Long Term Care Administration - Certificate of Achievement (23 s.h.)

Required Courses:

GER 230	Issues in Aging	3 s.h.
GER 246	Working with the Impaired Elderly	2 s.h.
GER 307	Psychology of Aging	3 s.h.
GER 315	Physical Aspects of Aging	3 s.h.
GER 425	Public Policy & Resources in Aging	3 s.h.
GER 485	Gerontology Management	3 s.h.
GER 487	Nursing Home Administration I	3 s.h.
GER 488	Nursing Home Administration II	3 s.h.
		<hr/>
		23 s.h.

Required Support Course:

ENG 101	Communication Skills I	3 s.h.
---------	------------------------	--------

MANAGEMENT

Management Major - Human Resource Administration Track (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 302	Organizational Behavior	3 s.h.
BUS 310	Introduction to Personnel Administration	3 s.h.
BUS 313	Managerial Accounting	3 s.h.
BUS 315	Business Finance	3 s.h.
BUS 316	Human Behavior & Leadership	2 s.h.
BUS 333	Business Law	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 395	Business & Society	3 s.h.
BUS 427	Human Resource Development	3 s.h.
BUS 442	Research in Business	4 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
CIS 330	Information Systems for Decision Making	2 s.h.

	Major Electives - to be chosen from:	9 s.h.
	BUS 314 International Business (3 s.h.)	
	BUS 369 Entrepreneurship (3 s.h.)	
	BUS 375 Allied Health Management (3 s.h.)	
	BUS 419 Special Problems in Management (1-4 s.h.)	
	BUS 445 International Management (3 s.h.)	
	BUS 491 Cooperative Education (1 s.h.)	
	BUS 492 Cooperative Education (1 s.h.)	
	ECN 435 The American Judicial Process (3 s.h.)	
	PSY 422 Theories of Personality (4 s.h.)	
	SOC 233 Interviewing Techniques (3 s.h.)	
		62 s.h.

Required Support Courses:

	ECN 272 Principles of Microeconomics	4 s.h.
	ECN 273 Principles of Macroeconomics	4 s.h.
	MTH 105 or Intermediate Algebra	4 s.h.
	MTH 121 Precalculus	4 s.h.
	MTH 230 Business Calculus	4 s.h.
	MTH 235 Probability & Statistics	4 s.h.
		20 s.h.

Management Major - Production Management Track (62 s.h.)

Required Major Courses:

	BUS 201 Principles of Accounting I	4 s.h.
	BUS 202 Principles of Accounting II	4 s.h.
	BUS 236 Principles of Management	3 s.h.
	BUS 244 Principles of Marketing	3 s.h.
	BUS 302 Organizational Behavior	3 s.h.
	BUS 313 Managerial Accounting	3 s.h.
	BUS 314 International Business	3 s.h.
	BUS 315 Business Finance	3 s.h.
	BUS 316 Human Behavior & Leadership	2 s.h.
	BUS 333 Business Law	3 s.h.
	BUS 355 Applied Business Statistics	4 s.h.
	BUS 363 Materials & Purchasing Management	3 s.h.
	BUS 395 Business & Society	3 s.h.
	BUS 421 Production & Operations Management	3 s.h.
	BUS 445 International Management	3 s.h.
	BUS 495 Business Policy	3 s.h.
	CIS 238 Introduction to Computers	3 s.h.
	CIS 330 Information Systems for Decision Making	2 s.h.
	Major Electives - to be chosen from:	7 s.h.

- BUS 310 Introduction to Personnel Administration (3 s.h.)
- BUS 366 Industrial Marketing (3 s.h.)
- BUS 369 Entrepreneurship (3 s.h.)
- BUS 419 Special Problems in Management (1-4 s.h.)
- BUS 442 Research in Business (4 s.h.)
- BUS 491 Cooperative Education (1 s.h.)
- BUS 492 Cooperative Education (1 s.h.)
- ECN 435 The American Judicial Process (3 s.h.)

62 s.h.

Required Support Courses:

ECN 272	Principles of Microeconomics	4 s.h.
ECN 273	Principles of Macroeconomics	4 s.h.
MTH 105 or	Intermediate Algebra	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 230	Business Calculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/>
		20 s.h.

MARKETING

Marketing Major (62 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 202	Principles of Accounting II	4 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 244	Principles of Marketing	3 s.h.
BUS 255	Consumer Behavior	3 s.h.
BUS 307	Promotional Strategy	3 s.h.
BUS 315	Business Finance	3 s.h.
BUS 333	Business Law	3 s.h.
BUS 355	Applied Business Statistics	4 s.h.
BUS 368	Marketing Communications	3 s.h.
BUS 373	Principles of Advertising	3 s.h.
BUS 395	Business & Society	3 s.h.
BUS 415	Marketing Management	3 s.h.
BUS 442	Research in Business	4 s.h.
BUS 495	Business Policy	3 s.h.
CIS 238	Introduction to Computers	3 s.h.
	Business Courses - minimum of 6 s.h. to be chosen from:	6 s.h.
	BUS 314 International Business (3 s.h.)	
	BUS 363 Materials & Purchasing Management (3 s.h.)	
	BUS 366 Industrial Marketing (3 s.h.)	
	BUS 387 Sales Management (3 s.h.)	
	Major Electives - to be chosen from:	4 s.h.
	BUS 369 Entrepreneurship (3 s.h.)	
	BUS 419 Special Problems in Marketing (1-4 s.h.)	
	BUS 491 Cooperative Education (1 s.h.)	
	BUS 492 Cooperative Education (1 s.h.)	
	CIS 330 Information Systems for Decision Making (2 s.h.)	
	FCR 262 Fashion Promotion & Coordination (3 s.h.)	
	FCR 301 Specialty Merchandising (3 s.h.)	
	FCR 308 Visual Merchandising (3 s.h.)	
	FCR 347 Retailing (3 s.h.)	
	FCR 432 Fashion Merchandising (3 s.h.)	
		<hr/>
		62 s.h.

Required Support Courses:

3 s.h.	ECN 272	Principles of Microeconomics	4 s.h.
3 s.h.	ECN 273	Principles of Macroeconomics	4 s.h.
3 s.h.	MTH 105 or	Intermediate Algebra	4 s.h.
3 s.h.	MTH 121	Precalculus	4 s.h.
3 s.h.	MTH 230	Business Calculus	4 s.h.
3 s.h.	MTH 235	Probability & Statistics	4 s.h.
3 s.h.			<hr/>
			20 s.h.

MATHEMATICS

Mathematics Major (30 s.h.)

Required Major Courses:

3 s.h.	MTH 235	Probability & Statistics	4 s.h.
3 s.h.	MTH 247	Programming: FORTRAN	3 s.h.
3 s.h.	MTH 251	Calculus with Analytic Geometry I	4 s.h.
3 s.h.	MTH 252	Calculus with Analytic Geometry II	4 s.h.
3 s.h.	MTH 330	Modern Algebra	3 s.h.
3 s.h.	MTH 351	Calculus with Analytic Geometry III	4 s.h.
3 s.h.	MTH 451	Introduction to Real Analysis	3 s.h.
3 s.h.	MTH 495	Senior Seminar	2 s.h.
3 s.h.		Major Electives	3 s.h.
3 s.h.			<hr/>
3 s.h.			30 s.h.

Mathematics Minor (20 s.h.)

Required Minor Courses:

3 s.h.	MTH 235	Probability & Statistics	4 s.h.
3 s.h.	MTH 251	Calculus with Analytic Geometry I	4 s.h.
3 s.h.	MTH 252	Calculus with Analytic Geometry II	4 s.h.
3 s.h.		Minor Electives*	8 s.h.
3 s.h.			<hr/>
3 s.h.			20 s.h.

*Only one computer science course may be included in minor electives.

MEDICAL TECHNOLOGY

Madonna College currently offers three levels of preparation in Medical Technology education: Medical Laboratory Technician, the two year Associate in Applied Science degree (A.A.S.); the four year Bachelor of Science in Medical Technology degree (B.S.M.T.); and the five year Bachelor of Science degree with a major in Biology and an internship following graduation (B.S.).

Medical Laboratory Technician Major - Associate Degree (26 s.h.)

Required Major Courses:

3 s.h.	AHM 101	Medical Terminology	2 s.h.
3 s.h.	MTE 201	Introduction to Health Technology	2 s.h.
3 s.h.	MTE 300	Medical Laboratory Technology	2 s.h.
3 s.h.	MTE 301	Human Clinical Pathology I	4 s.h.
3 s.h.	MTE 302	Human Clinical Pathology II	4 s.h.
3 s.h.	MTE 363	Clinical Chemistry I	3 s.h.
3 s.h.	MTE 365	Clinical Chemistry II	3 s.h.
3 s.h.	MTE 393	Clinical Internship	6 s.h.
3 s.h.			<hr/>
3 s.h.			26 s.h.

Required Support Courses:

BIO 224 or	Basic Human Physiology	4 s.h.
BIO 243 and	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
BIO 226	Microbiology	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 121	Precalculus	4 s.h.
		<hr/>
		20-22 s.h.

Medical Technology Major - B.S.M.T. (30-54 s.h.)
(Medical Technology Major with a Natural Science Minor)

Required Major Courses:

MTE 201	Introduction to Health Technology	2 s.h.
MTE 300	Medical Laboratory Technology	2 s.h.
MTE 301	Human Clinical Pathology I	4 s.h.
MTE 302	Human Clinical Pathology II	4 s.h.
MTE 363	Clinical Chemistry I	3 s.h.
MTE 365	Clinical Chemistry II	3 s.h.
MTE 451	Internship I	2-10 s.h.
MTE 452	Internship II	2-10 s.h.
MTE 453	Internship III	2-10 s.h.
MTE 476	Allied Health Administration	2 s.h.
MTE 478	Allied Health Education	2 s.h.
MTE 495	Senior Seminar	2 s.h.
		<hr/>
		30-54 s.h.

Required Support Courses:

BIO 103	General Biology I	4 s.h.
BIO 224	Basic Human Physiology	4 s.h.
BIO 226	Microbiology	4 s.h.
BIO 301	Genetics	4 s.h.
BIO 317	Invertebrate Zoology (Parasitology)	4 s.h.
BIO 328	Immunology	4 s.h.
BIO 350	Medical Mycology	4 s.h.
BIO 427	Clinical Bacteriology	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 361	Biochemistry I	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/>
		56 s.h.

Medical Technology - B.S. (38 s.h.)
(Biology Major)

Required Major Courses:

BIO 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
BIO 224	Basic Human Physiology	4 s.h.

4 s.h.	BIO 226	Microbiology	4 s.h.
3 s.h.	BIO 301	Genetics	4 s.h.
3 s.h.	BIO 317	Invertebrate Zoology (Parasitology)	4 s.h.
4 s.h.	BIO 328	Immunology	4 s.h.
4 s.h.	BIO 350	Medical Mycology	4 s.h.
4 s.h.	BIO 427	Clinical Bacteriology	4 s.h.
4 s.h.	BIO 495	Senior Seminar	2 s.h.
2 s.h.			<hr/> 38 s.h.

Required MTE Support Courses:

2 s.h.	MTE 201	Introduction to Health Technology	2 s.h.
2 s.h.	MTE 300	Medical Laboratory Technology	2 s.h.
4 s.h.	MTE 301	Human Clinical Pathology I	4 s.h.
4 s.h.	MTE 302	Human Clinical Pathology II	4 s.h.
3 s.h.	MTE 363	Clinical Chemistry I	3 s.h.
3 s.h.	MTE 365	Clinical Chemistry II	3 s.h.
0 s.h.			<hr/> 18 s.h.

Required Support Courses:

0 s.h.	MTH 121	Precalculus	4 s.h.
0 s.h.	MTH 235	Probability & Statistics	4 s.h.
2 s.h.	PHY 253	General Physics I	4 s.h.
2 s.h.	PHY 254 or	General Physics II	4 s.h.
4 s.h.	PHY 271	Fundamental Electronics	4 s.h.
			<hr/> 16 s.h.

Medical Laboratory Technician Internships may be full or part-time. CAHEA accredited Medical Technology Internships are full-time. AMT accredited Medical Technology Internships may be full or part-time.

Students who elect the medical technology program follow an approved plan of work and will maintain a grade point average of 2.8 or better to be considered for the internship. Madonna College participates in the Medical Technology Internship Matching Program of Michigan (MTIMP).

MUSIC

Church Music Major (55 s.h.)

Required Major Courses:

4 s.h.	MUS 111	Theory I	4 s.h.
4 s.h.	MUS 112	Theory II	4 s.h.
4 s.h.	MUS 211	Theory III	4 s.h.
4 s.h.	MUS 212	Theory IV	4 s.h.
3 s.h.	MUS 333**	History of Music Literature I	3 s.h.
3 s.h.	MUS 334**	History of Music Literature II	3 s.h.
2 s.h.	MUS 402	Contrapuntal Techniques	2 s.h.
2 s.h.	MUS 403	Form & Analysis	2 s.h.

MUS 405	Choral Techniques I	1 s.h.
MUS 406	Choral Techniques II	1 s.h.
MUS 417	Church Music	2 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Applied Music Electives*	16 s.h.
	Minor Applied Music Electives*	8 s.h.
		<hr/> 55 s.h.

*Participation in MUS 108, Chorale is required each term a student is enrolled in the program.

**Substitutes for general education requirement of MUS 202.

Advanced placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of instructor prior to registration is required for all vocal, instrumental, and theory courses.

Music Education Major (47 s.h.)

Required Major Courses:

MUS 111	Theory I	4 s.h.
MUS 112	Theory II	4 s.h.
MUS 211	Theory III	4 s.h.
MUS 212	Theory IV	4 s.h.
MUS 333*	History of Music Literature I	3 s.h.
MUS 334*	History of Music Literature II	3 s.h.
MUS 353	Instrumental Techniques	2 s.h.
MUS 402	Contrapuntal Techniques	2 s.h.
MUS 403	Form & Analysis	2 s.h.
MUS 404	Conducting & Performing Techniques	2 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Applied Music Electives	8 s.h.
	Minor Applied Music Electives	4 s.h.
	Group Performance Electives	4 s.h.
		<hr/> 47 s.h.

*Substitutes for general education requirement of MUS 202.

Advanced Placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of instructor prior to registration is required for all vocal, instrumental and theory courses.

Instrumental/Vocal Performance Major (55 s.h.)

Required Major Courses:

MUS 111	Theory I	4 s.h.
MUS 112	Theory II	4 s.h.
MUS 211	Theory III	4 s.h.

s.h.	MUS 212	Theory IV	4 s.h.
s.h.	MUS 333*	History of Music Literature I	3 s.h.
s.h.	MUS 334*	History of Music Literature II	3 s.h.
s.h.	MUS 402	Contrapuntal Techniques	2 s.h.
s.h.	MUS 403	Form & Analysis	2 s.h.
s.h.	HUM 495	Senior Seminar	1 s.h.
s.h.		Major Applied Music Electives	16 s.h.
s.h.		Minor Applied Music Electives	8 s.h.
		Group Performance	4 s.h.
			<hr/> 55 s.h.

*Substitutes for general education requirement of MUS 202.

Advanced Placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of instructor prior to registration is required for all vocal, instrumental and theory courses.

Music Management Major (41-43 s.h.)

Required Major Courses:

s.h.	MUS 111	Theory I	4 s.h.
s.h.	MUS 112	Theory II	4 s.h.
s.h.	MUS 211	Theory III	4 s.h.
s.h.	MUS 212	Theory IV	4 s.h.
s.h.	MUS 333*	History of Music Literature I	3 s.h.
s.h.	MUS 334*	History of Music Literature II	3 s.h.
s.h.	MUS 391, 491	Music Management Co-op I, II	2-4 s.h.
s.h.	MUS 402	Contrapuntal Techniques	2 s.h.
s.h.	MUS 495	Music Management Seminar	2 s.h.
s.h.	HUM 495	Senior Seminar	1 s.h.
s.h.		Major Applied Music Electives	8 s.h.
s.h.		Group Performance	4 s.h.
s.h.			<hr/> 41-43 s.h.

Required Support Courses:

s.h.	BUS 201	Principles of Accounting I	4 s.h.
s.h.	BUS 202	Principles of Accounting II	4 s.h.
s.h.	BUS 236	Principles of Management	3 s.h.
s.h.	BUS 244	Principles of Marketing	3 s.h.
s.h.	BUS 255	Consumer Behavior	3 s.h.
s.h.	BUS 333	Business Law	3 s.h.
			<hr/> 20 s.h.

*Substitutes for general education requirement of MUS 202.

Advanced placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of instructor prior to registration is required for all vocal, instrumental and theory courses.

Piano Pedagogy Certificate (33 s.h.)Required Certificate Courses:

ENG 101	Communication Skills I	3 s.h.
MUS 111	Theory I	4 s.h.
MUS 112	Theory II	4 s.h.
MUS 121	Piano	2 s.h.
MUS 122	Piano	2 s.h.
MUS 211	Theory III	4 s.h.
MUS 221	Piano	2 s.h.
MUS 222	Piano	2 s.h.
MUS 333*	History of Music Literature I	3 s.h.
MUS 334*	History of Music Literature II	3 s.h.
MUS 354	Piano Pedagogy I	2 s.h.
MUS 355	Piano Pedagogy II	2 s.h.
		<hr/>
		33 s.h.

Written approval of instructor prior to registration is required for all vocal, instrumental and theory courses.

Music Minor (24 s.h.)Required Minor Courses:

MUS 111	Theory I	4 s.h.
MUS 112	Theory II	4 s.h.
MUS 333*	History of Music Literature I	3 s.h.
MUS 334*	History of Music Literature II	3 s.h.
	Minor Applied Music Electives	10 s.h.
		<hr/>
		24 s.h.

*Substitutes for general education of MUS 202.

Advanced placement or credit by evaluation is based upon assessment of prior musical training.

Written approval of instructor prior to registration is required for all vocal, instrumental and theory courses.

NATURAL SCIENCE**Natural Science Major (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. Secondary Education Certification also requires 4 s.h. in NSC 216 Earth Science in addition to the above.

Biology Core:

BIO 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
BIO 224	Basic Human Physiology	4 s.h.
BIO 226	Microbiology	4 s.h.
BIO 301	Genetics	4 s.h.
BIO 495	Senior Seminar	2 s.h.
		<hr/>
		22 s.h.

Chemistry Core:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 222 or	Organic Chemistry II	4 s.h.
CHM 361	Biochemistry I	4 s.h.
CHM 331	Quantitative Analysis	4 s.h.
CHM 495	Senior Seminar	2 s.h.
		<hr/>
		22 s.h.

Physics Core:

PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
PHY 271	Fundamental Electronics	4 s.h.
PHY 351	Modern Physics: Atomic & Nuclear	4 s.h.
PHY 451	Electronics: Digital Techniques	4 s.h.
NSC 495	Senior Seminar	2 s.h.
		<hr/>
		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 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
BIO 224	Basic Human Physiology	4 s.h.
BIO 226	Microbiology	4 s.h.
		<hr/>
		16 s.h.

Chemistry Track:

CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 361	Biochemistry I	4 s.h.
		<hr/>
		16 s.h.

Physics Track:

PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
PHY 351	Modern Physics: Atomic & Nuclear	4 s.h.
PHY 451	Electronics: Digital Techniques	4 s.h.
		<hr/>
		16 s.h.

Required Support Courses:

MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
MTH 235*	Probability & Statistics	4 s.h.
		<hr/>
		4-11 s.h.

*MTH 235 is required if the Biology Core is selected.

Natural Science Major - Associate Degree (30 s.h.)

Required Major Courses:

Biology Course	4 s.h.
Chemistry Course	4 s.h.
Physics Course	4 s.h.
Major Electives	18 s.h.
	<hr/>
	30 s.h.

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.

Associate degree available in Pre-Nuclear Medicine Technology and Pre-Radiography: see RADIOGRAPHY.

NURSING

Nursing Major (53 s.h.)

Required Major Courses:

NUR 110	Nursing Heritage	1 s.h.
NUR 111	Current & Future Trends in Nursing	1 s.h.
NUR 202	Basic Concepts of Nursing (Basic students only)	5 s.h.
NUR 204	Concepts of Professional Nursing (RN/LPN students only)	3 s.h.
NUR 208	Physical Appraisal & History Taking (RN/LPN students only)	1 s.h.
NUR 212	Application of Nursing Concepts	8 s.h.
NUR 333	Pharmacology in the Nursing Process	2 s.h.
NUR 344	Advanced Nursing Care of Adult Clients	8 s.h.
NUR 345	Nursing Care of Parents & Children	8 s.h.
NUR 390	Nursing Research	2 s.h.
NUR 446	Mental Health Nursing	5 s.h.
NUR 456	Community Health Nursing	5 s.h.
NUR 457	Health Promotion in the Community	3 s.h.
NUR 466	Nursing Leadership & Management	5 s.h.
		<hr/>
		53 s.h.

Required Support Courses:

BIO 226	Microbiology	4 s.h.
BIO 243	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
BIO 361	Epidemiology	3 s.h.
BIO 371	Pathophysiology	3 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
ECN 271	Economics for Human Services	3 s.h.
PSY 245	Life Span Developmental Psychology	4 s.h.
RST 411	Medical Ethics	3 s.h.
SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
		<hr/>
		34 s.h.

Madonna College offers a Bachelor of Science in Nursing (BSN) degree for beginning nursing students, licensed practical nurses (LPNs), and registered nurses (RNs) from associate degree and diploma programs. The nursing program has been accredited since 1970 by the National League for Nursing.

The College also offers a Master of Science in Nursing (MSN) degree with a major in Nursing Administration, and a dual degree MSN/MSA (Business Administration) program. See the Graduate Studies Bulletin for information about these programs.

BSN Admission Requirements

1. Basic students need high school transcripts with at least a C level achievement in chemistry, biology, and algebra.

Transfer students, RNs and LPNs need official transcripts from colleges or postsecondary institutions attended.

2. A minimum 2.5 grade point average in high school college preparatory courses and in college/postsecondary coursework is required.

3. Basic students must provide ACT or Enhanced ACT scores indicating strong potential to succeed in the program.

RNs and LPNs must provide a photocopy of current Michigan nursing license.

4. RNs and LPNs should submit a resume of professional experience.

5. Applicants must be in good physical condition adequate to meet professional performance standards as attested to by a Physician or Master Nurse Clinician.

Progress in the Nursing Major

Students are admitted directly to the major. They 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 College 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.

Program Requirements

The organizing framework that gives cohesion to the nursing curriculum uses an interactional model vitalized by Christian Humanism. The content is arranged so that students are introduced to the past, present, and future of nursing at the freshman level, to basic concepts of nursing care with adults at the sophomore

Natural Science Major - Associate Degree (30 s.h.)

Required Major Courses:

Biology Course	4 s.h.
Chemistry Course	4 s.h.
Physics Course	4 s.h.
Major Electives	18 s.h.
	<hr/>
	30 s.h.

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.

Associate degree available in Pre-Nuclear Medicine Technology and Pre-Radiography: see RADIOGRAPHY.

NURSING

Nursing Major (53 s.h.)

Required Major Courses:

NUR 110	Nursing Heritage	1 s.h.
NUR 111	Current & Future Trends in Nursing	1 s.h.
NUR 202	Basic Concepts of Nursing (Basic students only)	5 s.h.
NUR 204	Concepts of Professional Nursing (RN/LPN students only)	3 s.h.
NUR 208	Physical Appraisal & History Taking (RN/LPN students only)	1 s.h.
NUR 212	Application of Nursing Concepts	8 s.h.
NUR 333	Pharmacology in the Nursing Process	2 s.h.
NUR 344	Advanced Nursing Care of Adult Clients	8 s.h.
NUR 345	Nursing Care of Parents & Children	8 s.h.
NUR 390	Nursing Research	2 s.h.
NUR 446	Mental Health Nursing	5 s.h.
NUR 456	Community Health Nursing	5 s.h.
NUR 457	Health Promotion in the Community	3 s.h.
NUR 466	Nursing Leadership & Management	5 s.h.
		<hr/>
		53 s.h.

Required Support Courses:

BIO 226	Microbiology	4 s.h.
BIO 243	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
BIO 361	Epidemiology	3 s.h.
BIO 371	Pathophysiology	3 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
ECN 271	Economics for Human Services	3 s.h.
PSY 245	Life Span Developmental Psychology	4 s.h.
RST 411	Medical Ethics	3 s.h.
SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
		<hr/>
		34 s.h.

Madonna College offers a Bachelor of Science in Nursing (BSN) degree for beginning nursing students, licensed practical nurses (LPNs), and registered nurses (RNs) from associate degree and diploma programs. The nursing program has been accredited since 1970 by the National League for Nursing.

The College also offers a Master of Science in Nursing (MSN) degree with a major in Nursing Administration, and a dual degree MSN/MSA (Business Administration) program. See the Graduate Studies Bulletin for information about these programs.

BSN Admission Requirements

1. Basic students need high school transcripts with at least a C level achievement in chemistry, biology, and algebra.

Transfer students, RNs and LPNs need official transcripts from colleges or postsecondary institutions attended.

2. A minimum 2.5 grade point average in high school college preparatory courses and in college/postsecondary coursework is required.

3. Basic students must provide ACT or Enhanced ACT scores indicating strong potential to succeed in the program.

RNs and LPNs must provide a photocopy of current Michigan nursing license.

4. RNs and LPNs should submit a resume of professional experience.

5. Applicants must be in good physical condition adequate to meet professional performance standards as attested to by a Physician or Master Nurse Clinician.

Progress in the Nursing Major

Students are admitted directly to the major. They 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 College 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.

Program Requirements

The organizing framework that gives cohesion to the nursing curriculum uses an interactional model vitalized by Christian Humanism. The content is arranged so that students are introduced to the past, present, and future of nursing at the freshman level, to basic concepts of nursing care with adults at the sophomore

level, to advanced concepts of care with adults and parents and children at the junior level, and to care of clients, families and groups in both acute care and community agencies at the senior year. The complexity of content and nursing role increases as the student progresses through the program. Nursing courses are presented in competency-based learning modules requiring weekly mastery.

NUTRITION & FOOD SCIENCE

Nutrition & Food Science Major (36 s.h.)

Required Major Courses:

F CR 125	Health Problems	4 s.h.
F CR 225	Human Nutrition	4 s.h.
F CR 226	Introductory Food Science	4 s.h.
F CR 325	Clinical Nutrition I	4 s.h.
F CR 326	Advanced Food Science	4 s.h.
F CR 425	Advanced Human Nutrition	4 s.h.
	Major Electives	12 s.h.
		<hr/> 36 s.h.

Required Support Courses:

B IO 224	Basic Human Physiology	4 s.h.
B IO 226	Microbiology	4 s.h.
C HM 111	General Chemistry I	4 s.h.
C HM 161	Introduction to Life Chemistry	4 s.h.
		<hr/> 16 s.h.

Nutrition & Food Science Major - Associate Degree (29 s.h.)

Required Major Courses:

F CR 125	Health Problems	4 s.h.
F CR 225	Human Nutrition	4 s.h.
F CR 226	Introductory Food Science	4 s.h.
F CR 238	Maternal & Child Nutrition	3 s.h.
F CR 242	Nutrition for the Aging	3 s.h.
F CR 246	Residential Management	3 s.h.
F CR 293	Practicum	1-4 s.h.
F CR 346	Food Service Management I	3 s.h.
F CR 376	Food Service Laboratory	2 s.h.
		<hr/> 27-29 s.h.

Required Support Courses:

B IO 224	Basic Human Physiology	4 s.h.
B US 236	Principles of Management	3 s.h.
		<hr/> 7 s.h.

Nutrition & Food Science Minor (21 s.h.)

Required Minor Courses:

F CR 225	Human Nutrition	4 s.h.
F CR 226	Introductory Food Science	4 s.h.
F CR 238	Maternal & Child Nutrition	3 s.h.
F CR 242	Nutrition for the Aging	3 s.h.
F CR 246	Residential Management	3 s.h.
F CR 326	Advanced Food Science	4 s.h.
		<hr/> 21 s.h.

OCCUPATIONAL SAFETY & HEALTH

Occupational Safety & Health Minor (24 s.h.)

Required Minor Courses:

OSH 102	Standards & Regulations	3 s.h.
OSH 322	Inspection & Survey of Facilities	3 s.h.
OSH 331	Safety Program Management	3 s.h.
OSH 352	Industrial Hygiene I	3 s.h.
OSH 398	Industrial Hygiene II	3 s.h.
OSH 451	Hazardous Materials	3 s.h.
	Major Electives	6 s.h.
		24 s.h.

Required Support Courses:

BIO 224 or	Basic Human Physiology	4 s.h.
NSC 125	Health Problems	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
		20-23 s.h.

Occupational Safety & Health - Certificate of Achievement (30 s.h.)

Required Courses:

ENG 101	Communication Skills I	3 s.h.
OSH 102	Standards & Regulations	3 s.h.
OSH 322	Inspection & Survey of Facilities	3 s.h.
OSH 331	Safety Program Management	3 s.h.
OSH 352	Industrial Hygiene I	3 s.h.
OSH 398	Industrial Hygiene II	3 s.h.
OSH 451	Hazardous Materials	3 s.h.
	Electives	9 s.h.
		30 s.h.

Occupational Safety, Health & Fire Science Major (39 s.h.)

Required Major Courses:

FS 101	Introduction to Fire Protection & Prevention	3 s.h.
FS 215	Building Construction	3 s.h.
FS 291 or	Co-op I*	1-3 s.h.
FS 293	Internship I*	1-3 s.h.
FS 322	Inspection & Survey of Facilities	3 s.h.
FS 368	Fire Protection Systems I	3 s.h.
FS 369	Fire Protection Systems II	3 s.h.
FS 391 or	Co-op II**	1-3 s.h.
FS 393	Internship II**	1-3 s.h.
FS 451	Hazardous Materials	3 s.h.
OSH 102	Standards & Regulations	3 s.h.

OSH 331 or	Safety Program Management	3 s.h.
FS 490	Fire Service Management	3 s.h.
OSH 352	Industrial Hygiene I	3 s.h.
OSH 398	Industrial Hygiene II	3 s.h.
OSH 495	Senior Seminar	2 s.h.
	Major Electives	1-7 s.h.
		<hr/> 39 s.h.

Required Support Courses:

BIO 224 or	Basic Human Physiology	4 s.h.
BIO 243 and	Anatomy & Physiology I	3 s.h.
BIO 244 or	Anatomy & Physiology II	3 s.h.
NSC 125	Health Problems	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 24-29 s.h.

Occupational Safety, Health & Fire Science Major - Associate Degree (30 s.h.)

Required Major Courses:

FS 101	Introduction to Fire Protection & Prevention	3 s.h.
FS 215	Building Construction	3 s.h.
FS 291 or	Co-op I*	1-3 s.h.
FS 293	Internship I*	1-3 s.h.
FS 322	Inspection & Survey of Facilities	3 s.h.
FS 368	Fire Protection Systems I	3 s.h.
FS 369	Fire Protection Systems II	3 s.h.
FS 451	Hazardous Materials	3 s.h.
OSH 102	Standards & Regulations	3 s.h.
OSH 331 or	Safety Program Management	3 s.h.
FS 490	Fire Service Management	3 s.h.
OSH 352	Industrial Hygiene I	3 s.h.
	Major Electives	2-3 s.h.
		<hr/> 30 s.h.

Required Support Courses:

BIO 224 or	Basic Human Physiology	4 s.h.
BIO 243 and	Anatomy & Physiology I	3 s.h.
BIO 244 or	Anatomy & Physiology II	3 s.h.
NSC 125	Health Problems	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 24-29 s.h.

*Required for preservice associate and baccalaureate students.

**Required for preservice baccalaureate students.

PASTORAL MINISTRY

Pastoral Ministry Major (34 s.h.)

Required Major Courses:

RST 224	Theology of Ministry	2 s.h.
RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 315	Spirituality	2 s.h.
RST 349	Christian Worship	2 s.h.
RST 361	Pastoral Counseling	2 s.h.
RST 427	Resources for Effective Ministry	2 s.h.
RST 428	Church Policies & Procedures	2 s.h.
RST 472	Pastoral Administration	3 s.h.
RST 491	Religious Studies Practicum (As related to one's ministry)	3 s.h.
RST 495	Senior Seminar	1 s.h.
	Morals/Ethics Elective - to be chosen from:	3 s.h.
	RST 408 Christian Ethics (3 s.h.)	
	RST 410 Conscience & Values (3 s.h.)	
	RST 411 Medical Ethics (3 s.h.)	
	Electives	6 s.h.
		<hr/> 34 s.h.

Required Support Courses:

PHL 101	Introduction to Philosophy	3 s.h.
PHL	Another PHL Elective	3 s.h.
SPH 105	Speech Communication	3 s.h.
SOC 233	Interviewing Techniques	3 s.h.
SOC 239	Empathy Listening Skills	1 s.h.
		<hr/> 13 s.h.

Pastoral Ministry Minor (24 s.h.)

Required Minor Courses:

RST 224	Theology of Ministry	2 s.h.
RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 361	Pastoral Counseling	2 s.h.
RST 427	Resources in Effective Ministry	2 s.h.
RST 472	Pastoral Administration	3 s.h.
RST 491	Practicum (As related to one's ministry)	3 s.h.
	Morals/Ethics Elective - to be chosen from:	3 s.h.
	RST 408 Christian Ethics (3 s.h.)	
	RST 410 Conscience & Values (3 s.h.)	
	RST 411 Medical Ethics (3 s.h.)	
	Religious Studies Elective	3 s.h.
		<hr/> 24 s.h.

Required Support Courses:

PHL 101	Introduction to Philosophy	3 s.h.
SPH 105	Speech Communication	3 s.h.
		<hr/> 6 s.h.

Formal application for admission to the Pastoral Ministry major/minor will be made at the conclusion of the student's second semester of work at Madonna College. Forms are to be obtained from the Religious Studies Chairperson's office.

Pastoral Ministry majors and minors will be required to select an area of specialization from programs offered at Madonna College and to complete a major, minor, or the equivalent of the latter as part of the Pastoral Ministry program. Special adjustments will be made for persons currently involved in ministerial roles.

Credit may be obtained through the process of evaluation of life experience for work already completed. The Religious Studies Department does not extend this process, however, to highly personal activities such as personal spiritual direction, retreats, prayer services, and the like.

PHILOSOPHY

Philosophy Minor (21 s.h.)

Required Minor Courses:

PHL 101	Introduction to Philosophy	3 s.h.
PHL 221	Person & Society	3 s.h.
PHL 408 or	Christian Ethics	3 s.h.
PHL 411	Medical Ethics	3 s.h.
PHL 422	Metaphysics	3 s.h.
	Electives (from existing Philosophy courses)	9 s.h.
		<hr/> 21 s.h.

Students are to declare their Philosophy minor at the time of registration.

PHYSICS

Physics Minor (20 s.h.)

Required Minor Courses:

PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
PHY 271	Fundamental Electronics	4 s.h.
PHY 351	Modern Physics: Atomic & Nuclear	4 s.h.
PHY 451	Electronics: Digital Techniques	4 s.h.
		<hr/> 20 s.h.

POLISH

Polish Minor (20 s.h.) beyond elementary level. Some courses must be taken on a consortial basis.

POLITICAL SCIENCE

Political Science Minor (20 s.h.)

Required Minor Courses:

PSC 251	American Government	4 s.h.
	Minor Electives	16 s.h.
		<hr/> 20 s.h.

Social Science Group Major, Political Science (36 s.h.) including 16 s.h. in Political Science.

PRE-LAW

Law schools do not prescribe particular curricula for admission. Madonna College, 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, political science, or other liberal arts.

PRE-PROFESSIONAL MAJORS*

Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Osteopathy, Pre-Pharmacy, Pre-Podiatry, Pre-Veterinary

Students preparing for a health professions career may major in any area whose free electives allow completion of the following basic courses:

BIO 103	General Biology I	4 s.h.
BIO 104	General Biology II	4 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 112	General Chemistry II	4 s.h.
CHM 221	Organic Chemistry I	4 s.h.
CHM 222	Organic Chemistry II	4 s.h.
MTH 121	Precalculus	4 s.h.
MTH 251	Calculus with Analytic Geometry I	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254	General Physics II	4 s.h.
		<hr/> 40 s.h.

*Schools and programs vary in general requirements for admission. Students are advised to become familiar with the exact requirements of the program(s) to which application will be made. At Madonna College, these programs are under the direction of the Division of Science & Technology.

PSYCHOLOGY

Psychology Major (30 s.h.)

Required Major Courses:

PSY 101	General Psychology	3 s.h.
PSY 316 or	Group Dynamics & Discussion Techniques	4 s.h.
PSY 367	Social Psychology	4 s.h.

PSY 342	Abnormal Psychology	4 s.h.
PSY 422	Theories of Personality	4 s.h.
PSY 483	Introduction to Experimental Psychology	4 s.h.
PSY 495	Seminar in Psychology	4 s.h.
	Major Electives	7 s.h.
		<hr/> 30 s.h.

Required Support Course:

MTH 235	Probability & Statistics*	4 s.h.
---------	---------------------------	--------

*Grade of C or better is required.

Mental Health Certificate:

Psychology majors wishing to obtain a Mental Health Certificate must complete the following coursework (12 s.h.) in addition to completion of the required major and support courses listed above.

PSY 370, 371	Field Placement in Applied Mental Health I, II	4, 4 s.h.
PSY 380, 381	Field Placement Seminar in Applied Mental Health I, II	2, 2 s.h.
		<hr/> 12 s.h.

Psychology Minor (20 s.h.)

Required Minor Courses:

PSY 101	General Psychology	3 s.h.
	Minor Electives (upper division)	8 s.h.
	Minor Electives	9 s.h.
		<hr/> 20 s.h.

Social Science Group Major, Psychology Core (36 s.h.) including 16 s.h. in Psychology.

Majors must pass a Comprehensive Exam during their senior year.

PUBLIC ADMINISTRATION

Public Administration Major (44 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 236	Principles of Management	3 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
HIS 231	United States to 1900	4 s.h.
HIS 341	Minority Groups in America	4 s.h.
HIS 453	United States in the Twentieth Century	4 s.h.
PAD 251	American Government	4 s.h.
PAD 310	Introduction to Public Administration	4 s.h.
PAD 451	State & Local Government	4 s.h.
PAD 491/493	Public Administration Field Experience	3-5 s.h.
PAD 495	Public Administration Seminar	2 s.h.
SOC 442	Urban Sociology	4 s.h.
		<hr/> 44 s.h.

Plus an approved minor. A minor in Business Administration is recommended.

Required Support Courses:

CIS 238	Introduction to Computers	3 s.h.
MTH 235	Probability & Statistics	4 s.h.
		<hr/> 7 s.h.

Public Administration Major - Associate Degree (31 s.h.)

Required Major Courses:

BUS 201	Principles of Accounting I	4 s.h.
BUS 236	Principles of Management	3 s.h.
ECN 272	Principles of Microeconomics	4 s.h.
HIS 231	United States to 1900	4 s.h.
HIS 341	Minority Groups in America	4 s.h.
PAD 251	American Government	4 s.h.
PAD 310	Introduction to Public Administration	4 s.h.
PAD 451	State & Local Government	4 s.h.
		<hr/> 31 s.h.

Required Support Course:

MTH 235	Probability & Statistics	4 s.h.
---------	--------------------------	--------

Public Administration Minor (24 s.h.)

Required Minor Courses:

BUS 201	Principles of Accounting I	4 s.h.
PAD 251	American Government	4 s.h.
PAD 310	Introduction to Public Administration	4 s.h.
PAD 451	State & Local Government	4 s.h.
	Minor Electives* - to be chosen from:	8 s.h.
	BUS 236 Principles of Management (3 s.h.)	
	ECN 272 Principles of Microeconomics (4 s.h.)	
	HIS 231 United States to 1900 (4 s.h.)	
	HIS 341 Minority Groups in America (4 s.h.)	
	HIS 453 United States in the Twentieth Century (4 s.h.)	
	SOC 442 Urban Sociology (4 s.h.)	
		<hr/> 24 s.h.

*Electives chosen with approval of PAD advisor.

RADIOGRAPHY

Madonna College offers two levels of academic preparation in Radiography. The Associate of Science degree in Natural Science prepares the student to enter the Committee on Allied Health Education and Accreditation (CAHEA) accredited clinical program in Radiography or Nuclear Medicine. The Bachelor of Science degree program is for registered radiographers who will be prepared to coordinate radiography programs and/or diagnostic imaging services.

Radiography Major (51 s.h.)

Required Major Courses:

AHM 380	Health Care Organization	2 s.h.
BUS 236	Principles of Management	3 s.h.
BUS 375	Allied Health Management	3 s.h.

CIS 225	Computer Fundamentals	2 s.h.
ECN 271	Economics for Human Services	3 s.h.
RTE 476	Allied Health Administration	2 s.h.
RTE 478	Allied Health Education	2 s.h.
RTE 495	Senior Seminar	2 s.h.
	RT(R) Certification (credit by evaluation)	32 s.h.
		<hr/> 51 s.h.

Field placements in Advanced Radiography are available on a limited basis for 1-12 s.h. of credit.

Radiography/Pre-Nuclear Medicine Technology Major - Associate Degree (36-39 s.h.), (Natural Science Major)

Required Major Courses:

AHM 101	Medical Terminology	2 s.h.
AHM 201	Introduction to Health Technology	2 s.h.
BIO 226	Microbiology	4 s.h.
BIO 243	Anatomy & Physiology I	3 s.h.
BIO 244	Anatomy & Physiology II	3 s.h.
CHM 111	General Chemistry I	4 s.h.
CHM 161	Introduction to Life Chemistry	4 s.h.
CIS 225	Computer Fundamentals	2 s.h.
MTH 105 and	Intermediate Algebra	4 s.h.
MTH 106 or	Trigonometry	3 s.h.
MTH 121	Precalculus	4 s.h.
PHY 253	General Physics I	4 s.h.
PHY 254 or	General Physics II	4 s.h.
PHY 271	Fundamental Electronics	4 s.h.
		<hr/> 36-39 s.h.

Clinical Internships are processed through the Allied Health Office. These are full-time 40 hour per week positions. Radiography students register for internship credit while on clinical rotation.

RELIGIOUS STUDIES

Religious Studies Major (30 s.h.)

Required Major Courses:

RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 257	The Old Testament II: Prophets, Wisdom & Apocalyptic Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 259	The New Testament II: Acts, Epistles & Revelation	3 s.h.
RST 470 or	Catechesis	3 s.h.
RST 491	Religious Studies Practicum	3 s.h.
HUM 495	Senior Seminar	1 s.h.
	Morals/Ethics Elective - to be chosen from:	3 s.h.
	RST 408 Christian Ethics (3 s.h.)	
	RST 410 Conscience & Values (3 s.h.)	
	RST 411 Medical Ethics (3 s.h.)	
	Other Major Electives	<hr/> 11 s.h.
		30 s.h.

Required Support Courses:

PHL 101	Introduction to Philosophy	3 s.h.
PHL	Second PHL course	3 s.h.
		<hr/> 6 s.h.

Religious Studies Major - Associate Degree (30 s.h.)

Required Major Courses:

PHL 101	Introduction to Philosophy	3 s.h.
RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 257	The Old Testament II: Prophets, Wisdom & Apocalyptic Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 259	The New Testament II: Acts, Epistles & Revelation	3 s.h.
	Morals/Ethics Elective - to be chosen from:	3 s.h.
	RST 408 Christian Ethics (3 s.h.)	
	RST 410 Conscience & Values (3 s.h.)	
	RST 411 Medical Ethics (3 s.h.)	
	Other Religious Studies Electives	<hr/> 12 s.h.
		30 s.h.

Religious Studies Minor (20 s.h.)

Required Minor Courses:

RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 257	The Old Testament II: Prophets, Wisdom & Apocalyptic Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 259	The New Testament II: Acts, Epistles & Revelation	3 s.h.
	Morals/Ethics Electives - to be chosen from:	3 s.h.
	RST 408 Christian Ethics (3 s.h.)	
	RST 410 Conscience & Values (3 s.h.)	
	RST 411 Medical Ethics (3 s.h.)	
	Minor Electives	<hr/> 5 s.h.
		20 s.h.

Required Support Course:

PHL 101	Introduction to Philosophy	3 s.h.
---------	----------------------------	--------

Religious Studies - Certificate of Achievement (30 s.h.)

Required Courses:

PHL 101	Introduction to Philosophy	3 s.h.
RST 256	The Old Testament I: Torah & Historical Writings	3 s.h.
RST 257	The Old Testament II: Prophets, Wisdom & Apocalyptic Writings	3 s.h.
RST 258	The New Testament I: The Four Gospels	3 s.h.
RST 259	The New Testament II: Acts, Epistles & Revelation	3 s.h.
	Electives in Religious Studies/Pastoral Ministry	8 s.h.
	Other Electives	<hr/> 7 s.h.
		30 s.h.

The following courses are designed basically within the Catholic tradition but are not restricted to persons of that religious persuasion:

RST 345	Contemporary Catholicism	3 s.h.
RST 347	The Catholic Sacraments	3 s.h.
RST 470	Catechesis	3 s.h.

All other courses are ecumenical in content and method of presentation.

A variety of contemporary religious/moral/catechetical topics are presented in 1 and 2 s.h. workshops throughout the academic year.

Madonna College, in cooperation with the Detroit Archdiocesan Department of Religious Education and the Detroit Area Consortium of Catholic Colleges, following evaluation and approval by the RST/PHL Department, offers college credit in religious studies for courses offered at parishes throughout the Archdiocese. Further, courses in religious studies offered at Madonna College can be applied to one of four Phases: Catechetics; Scripture; Values, Morals, Christian Formation; and Teaching Techniques.

Upon completion of Spectrum, Ministerial apprenticeship, Pastoral/Hospital/Hospice, or other Christian Ministry programs, students may apply for evaluation and assignment of academic credit. It is not the policy of the Religious Studies Department, however, to include retreats, personal/shared prayer, spiritual direction or similar highly personal experiences in the evaluation process. Students are to initiate the Life Experience work at the beginning of each term.

Comprehensive examinations are fulfilled in HUM 495, 1 s.h., under the co-direction of the course coordinator and a designated RST department member.

Persons working toward an associate degree or a certificate of achievement are encouraged to select elective courses that apply to the ministry in which they operate.

SECURITY & LOSS PREVENTION

Security & Loss Prevention Major (53 s.h.)

Required Major Courses:

BUS 238	Introduction to Computers	3 s.h.
CJS 101	Introduction to Security	3 s.h.
CJS 201	Security Administration & Organization	3 s.h.
CJS 265	Security Law	3 s.h.
CJS 311	Security Investigations	3 s.h.
CJS 324	Principles of Loss Prevention	3 s.h.
CJS 391	Internship/Co-op	3 s.h.
CJS 495	Security Seminar	3 s.h.
ENG 200	Technical Writing	3 s.h.
OSH 322	Inspection & Survey of Facilities	3 s.h.
OSH 328	Fire & Arson Investigation	3 s.h.
	Major Electives	20 s.h.
		<hr/> 53 s.h.

Security & Loss Prevention - Associate Degree (21 s.h.)**Required Major Courses:**

BUS 238	Introduction to Computers	3 s.h.
CJS 101	Introduction to Security	3 s.h.
CJS 201	Security Administration & Organization	3 s.h.
CJS 265	Security Law	3 s.h.
CJS 311	Security Investigations	3 s.h.
ENG 200	Technical Writing	3 s.h.
OSH 328	Fire & Arson Investigation	3 s.h.
		<hr/>
		21 s.h.

Security & Loss Prevention Minor (20 s.h.)**Required Minor Courses:**

CJS 101	Introduction to Security	3 s.h.
CJS 201	Security Administration & Organization	3 s.h.
CJS 265	Security Law	3 s.h.
CJS 324	Principles of Loss Prevention	3 s.h.
	Minor Electives	8 s.h.
		<hr/>
		20 s.h.

Security & Loss Prevention - Certificate of Achievement (30 s.h.)**Required Major Courses:**

CJS 101	Introduction to Security	3 s.h.
CJS 201	Security Administration & Organization	3 s.h.
CJS 265	Security Law	3 s.h.
CJS 324	Principles of Loss Prevention	3 s.h.
CJS 391	Internship/Co-op	3 s.h.
CJS 495	Security Seminar	3 s.h.
ENG 101	Communication Skills I	3 s.h.
	Major Electives	9 s.h.
		<hr/>
		30 s.h.

SIGN LANGUAGE STUDIES**Sign Language Studies Major (44-53 s.h.)****Required Major Core Courses:**

SLS 100	Introduction to Sign Language Studies	3 s.h.
SLS 101	Beginning American Sign Language I	4 s.h.
SLS 102	Beginning American Sign Language II	4 s.h.
SLS 201	Intermediate American Sign Language I	4 s.h.
SLS 202	Intermediate American Sign Language II	4 s.h.
SLS 228	Fingerspelling I	1 s.h.
SLS 229	Fingerspelling II	1 s.h.
SLS 301	Advanced American Sign Language I	3 s.h.
SLS 302	Advanced American Sign Language II	3 s.h.
SLS 362	Sign Language Structure	4 s.h.
		<hr/>
		31 s.h.

SLS Interpreting Concentration:

Core courses plus:

SLS 365	Contrastive Text Analysis: ASL & English for Interpreters	3 s.h.
SLS 441	Fundamentals of Interpretation & Transliteration	4 s.h.
SLS 445	Basic Simultaneous Interpretation for Interpreters	3 s.h.
SLS 461	Voice to Sign: Interpreting Lab	3 s.h.
SLS 471	Selected Seminar Topics	1-4 s.h.
SLS 475	Interpreting in Specialized Settings	3 s.h.
SLS 481	Sign to Voice: Interpreting Lab	3 s.h.
SLS 493	Field Experience	1-16 s.h.
		<hr/> 22 s.h.

Sign Language Instruction Concentration:

Core courses plus:

SLS 365	Contrastive Text Analysis: ASL & English for Interpreters	3 s.h.
SLS 428	Simultaneous Communication	3 s.h.
SLS 451	Sign Language Acquisition	3 s.h.
SLS 453	Fundamentals of Sign Language Instruction	3 s.h.
SLS 471	Selected Seminar Topics	1-4 s.h.
		<hr/> 13-16 s.h.

Students electing the Sign Language Instruction Concentration are strongly recommended to complete a number of support courses in the Education department. These recommended courses are listed below at the end of the Sign Language Plans of Study section.

SLS Preprofessional Concentration: Core courses plus 14 hours in SLS electives based on consultation with SLS Department Advisor.

Sign Language Studies Major - Associate Degree (31 s.h.)

Required Major Courses:

SLS 100	Introduction to Sign Language Studies	3 s.h.
SLS 101	Beginning American Sign Language I	4 s.h.
SLS 102	Beginning American Sign Language II	4 s.h.
SLS 201	Intermediate American Sign Language I	4 s.h.
SLS 202	Intermediate American Sign Language II	4 s.h.
SLS 228	Fingerspelling I	1 s.h.
SLS 229	Fingerspelling II	1 s.h.
SLS 301	Advanced American Sign Language I	3 s.h.
SLS 302	Advanced American Sign Language II	3 s.h.
SLS 362	Sign Language Structure	4 s.h.
		<hr/> 31 s.h.

Sign Language Studies Minor (31 s.h.)

Required Minor Courses:

SLS 100	Introduction to Sign Language Studies	3 s.h.
SLS 101	Beginning American Sign Language I	4 s.h.
SLS 102	Beginning American Sign Language II	4 s.h.

SLS 201	Intermediate American Sign Language I	4 s.h.
SLS 202	Intermediate American Sign Language II	4 s.h.
SLS 228	Fingerspelling I	1 s.h.
SLS 229	Fingerspelling II	1 s.h.
SLS 301	Advanced American Sign Language I	3 s.h.
SLS 302	Advanced American Sign Language II	3 s.h.
SLS 362	Sign Language Structure	4 s.h.
		<hr/> 31 s.h.

Sign Language Studies Certificate of Achievement (34 s.h.)

Required Courses:

ENG 101	Communication Skills	3 s.h.
SLS 100	Introduction to Sign Language Studies	3 s.h.
SLS 101	Beginning American Sign Language I	4 s.h.
SLS 102	Beginning American Sign Language II	4 s.h.
SLS 201	Intermediate American Sign Language I	4 s.h.
SLS 202	Intermediate American Sign Language II	4 s.h.
SLS 228	Fingerspelling I	1 s.h.
SLS 229	Fingerspelling II	1 s.h.
SLS 301	Advanced American Sign Language I	3 s.h.
SLS 302	Advanced American Sign Language II	3 s.h.
SLS 362	Sign Language Structure	4 s.h.
		<hr/> 34 s.h.

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.

Students pursuing a bachelor's degree in Sign language studies are encouraged to consider a second major as well. Such program planning will assist the student in developing career-related skills by integrating other majors with the SLS major. (See chart of Madonna College Majors.)

Students admitted to the interpreting concentration will be scheduled for ASL and English competency tests. Students can be admitted by completing the SLS core and meeting such 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.

Students electing the concentration of Sign Language Instruction will need to complete core SLS coursework, follow the Sign Language Instruction sequence, and are strongly recommended to complete the following support courses in the education department:

EDU 200	Introduction to Professional Education Experiences	3 s.h.
EDU 312	Educational Psychology	4 s.h.
EDU 335	Language Arts & Linguistics Foundations	3 s.h.
EDU 346	Instructional Media	2 s.h.
EDU 440	Behavior Management in the Classroom	2 s.h.
EDU 453	Theory & Techniques of Instruction:	
	Foreign Languages (7-12)	3 s.h.
EDU 480	Foundations of Education	3 s.h.

(Note: the education support course sequence does not lead to teacher education certification.)

SOCIAL SCIENCE

Social Science Major (36 s.h.) from no more than three of the listed Social Science Disciplines: Criminal Justice, Gerontology, History, Political Science, Psychology, and Sociology (minimum of 20 s.h. in upper division courses), including 16 s.h. in core discipline (minimum of 8 s.h. in upper division courses), and SSC 495. For teacher education, elect History or Political Science core.

Social Science Major - Associate Degree (30 s.h.) from no more than three of the Social Science Disciplines listed above including 15 s.h. in core discipline.

Social Science Minor (24 s.h.) from no more than three of the Social Science Disciplines listed above (minimum of 8 s.h. in upper division courses), including 12 s.h. in core discipline (minimum of 4 s.h. in upper division courses).

SOCIAL WORK

Social Work Major (44 s.h.)

Madonna College 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 is enhancing the problem-solving and coping capacities of people; linking people with systems that provide them with resources, services, and opportunities; promoting humane services.

The Social Work curriculum is based on the premise that a social worker needs a well-integrated program of liberal arts content, specific professional content, and a professionally guided field practicum. These experiences focus on the delivery of services to individuals, families, groups, organizations, and/or communities within a Generalist model.

Admission to the B.S.W. Program

Students must submit an application for formal acceptance to the program after completing SW 230 with a grade of B or better and successful completion of the required support courses (see below). In addition, applicants should show aptitude for social work practice as evidenced in pre-field experience and recommendations. A G.P.A. of 2.5 is required at the time of application. Only students formally admitted to the program will be permitted to enroll in SW 480/485 and SW 490/495.

Transfer students only may take SW 230 as a corequisite with SW 235, 239, and 240 provided that required support courses have been completed. These social work courses must be completed before transfer students may continue in the sequence of the program.

Required Major Courses:

SW 230	Introduction to Social Work	4 s.h.
SW 235	Practice Methods I	3 s.h.
SW 239	Empathy Listening Skills	1 s.h.
SW 240	Human Behavior & Social Environment	4 s.h.
SW 350	Social Welfare	4 s.h.
SW 365	Social Policy	4 s.h.
SW 370	Practice Methods II	4 s.h.
SW 390	Practice Methods III	4 s.h.
SW 480	Field Placement I	4 s.h.
SW 485	Field Placement Seminar I	2 s.h.
SW 487	Social Work Research	4 s.h.
SW 490	Field Placement II	4 s.h.
SW 495	Field Placement Seminar II	2 s.h.
		<hr/>
		44 s.h.

These courses must be taken in sequence. Students must complete a total of 100 pre-field hours at the sophomore and junior levels and 400 hours of field experience at the senior level.

Required Support Courses:*

ECN 271	Economics for Human Services	3 s.h.
BIO 101	Introductory Biology	4 s.h.
PSC 251	American Government	4 s.h.
PSY 101	General Psychology	3 s.h.
SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
		<hr/>
		18 s.h.

*Courses must be completed before taking SW 240.

SOCIOLOGY

Sociology Major (30-32 s.h.)

Required Major Courses:

SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
SOC 221	Social Problems	4 s.h.

SOC 367	Social Psychology	4 s.h.
SOC 442	Urban Sociology	4 s.h.
SOC 495	Sociology Seminar	4 s.h.
	Major Electives	10-12 s.h.
		<hr/> 30-32 s.h.

Sociology Minor (20 s.h.)

Required Minor Courses:

SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.
SOC 221	Social Problems	4 s.h.
	Minor Electives	12 s.h.
		<hr/> 20 s.h.

Social Science Group Major, Sociology (36 s.h.) including 16 s.h. in Sociology including SOC 101.

SPANISH

Spanish Major (30 s.h.) beyond elementary level. Some courses must be taken on a consortial basis.

Not applicable toward major: SPA 101, 102, 300.

Spanish Minor (20 s.h.) beyond elementary level.

SPECIAL EDUCATION

The Education/Psychology Department offers a program leading to endorsement in Special Education/Learning Disabilities either as an undergraduate major or as a post-degree program for endorsement of certified teachers. The Learning Disabilities endorsement may be earned at either the elementary or secondary level.

Elementary Learning Disabilities Major (38 s.h.)

Required Major Courses:

EDU 372	Diagnosis & Remedial Techniques in Reading	3 s.h.
PSY 270	Child Psychology	4 s.h.
PSY 342	Abnormal Psychology	4 s.h.
SED 330	The Exceptional Learner in the Classroom	3 s.h.
SED 345	Learning Disabilities	3 s.h.
SED 401	Speech & Language Development & Disorders in Children	3 s.h.
SED 409	Practicum in Diagnostic & Prescriptive Techniques	4 s.h.
SED 451	Elementary Methods for Teaching the Learning Disabled	4 s.h.
SED 471	Directed Teaching: Elementary Learning Disabilities	6 s.h.
SED 495	Learning Disabilities Seminar	1 s.h.
CIS 225	Computer Fundamentals	2 s.h.
		<hr/> 38 s.h.

Secondary Learning Disabilities Major (37 s.h.)

Required Major Courses:

PSY 245	Life-Span Developmental Psychology	4 s.h.
PSY 313	Adolescent Psychology	4 s.h.
PSY 342	Abnormal Psychology	4 s.h.
SED 330	The Exceptional Learner in the Classroom	3 s.h.
SED 345	Learning Disabilities	3 s.h.
SED 409	Practicum in Diagnostic & Prescriptive Techniques	4 s.h.
EDU 412	Special Education in Middle & Secondary Schools (taken at the University of Detroit)	3 s.h.
SED 455	Secondary Methods of Teaching the Learning Disabled	4 s.h.
SED 475	Directed Teaching: Secondary Learning Disabilities	6 s.h.
SED 495	Learning Disabilities Seminar	1 s.h.
CIS 225	Computer Fundamentals	2 s.h.
		<hr/>
		37 s.h.

Undergraduate Learning Disabilities

The undergraduate student majoring in Learning Disabilities should read carefully the Education section of this bulletin, particularly the subheads "Admission to the Teacher Education Program" and "Admission to Directed Teaching." Because of the variety of program requirements involved, the student must plan closely with the Learning Disabilities advisor to ensure proper sequencing of courses.

Note that the degree of Bachelor of Arts with a major in Learning Disabilities can be earned only at the completion of both the regular education and the Learning Disabilities directed teaching placement. If directed teaching is not completed, a new degree major must be selected.

Also note that the major requires the completion of the Senior Comprehensive Examination in the final semester.

Elementary Learning Disabilities students must complete the following four sets of requirements:

1. General Education (see Plan of Study section of this bulletin). General Education courses that must be included are:

ENG 300	Children's Literature & Drama	4 s.h.
GEO 301 or	World Regional Geography	4 s.h.
PSC 251	American Government	4 s.h.
NSC 373	Science Foundations I: Chemistry & Life Science	4 s.h.
NSC 374	Science Foundations II: Astronomy, Earth Science & Physics	4 s.h.
SOC 101	Introduction to Sociology & Cultural Anthropology	4 s.h.

2. Elementary Learning Disabilities Major.

3. Elementary Curriculum minor (see Education section of this bulletin).

4. Professional Education sequence (see Education section of this bulletin).

At the conclusion of all coursework, the elementary candidate will complete two directed teaching placements: first one full semester in a regular elementary classroom, followed by 10 weeks in a special education classroom.

Secondary Learning Disabilities students must complete the following four sets of requirements:

1. General Education (see Plan of Study section of this bulletin), including SOC 101.
2. Secondary Learning Disabilities major.
3. Second major in academic teaching field (must be selected from the listing in the Education section of this bulletin).
4. Professional Education sequence (see Education section of this bulletin).

At the conclusion of all coursework, the secondary candidate will complete two directed teaching placements: first one full semester in a regular high school or junior high classroom in the academic major, followed by 10 weeks in a secondary special education classroom.

Post-Degree Special Education Endorsements for Certified Teachers

The Learning Disabilities endorsement may be earned at the teacher's present level of certification. If endorsement at the other level is desired, a level change program must be completed first.

The student's prior transcripts will be reviewed for the following prerequisite coursework: general psychology, educational psychology, principles of reading instruction, behavior management in the classroom, foundations of education, and methods and directed teaching in regular classroom instruction. Any course content of these prerequisites that is not represented in the student's transcript must be added to the requirements for the special education endorsement program.

If transfer credit is used in the program, a minimum of 12 s.h. must be completed at Madonna College. Transfer credit in Special Education that is more than five years old is subject to review by the instructor.

Post-degree students in Special Education must apply for Admission to Learning Disabilities while enrolled in their first Madonna College course in the program. The application procedure includes obtaining two recommendations from school administrators (preferred) or faculty at Madonna College.

The post-degree student enrolled in an endorsement program must maintain a minimum 2.5 overall G.P.A. and must earn a C or better in each course used in the endorsement program.

SPEECH & DRAMA

Speech & Drama Minor (20 s.h.)

Required Minor Courses:

SPH 105	Speech Communication	3 s.h.
	Minor Electives	17 s.h.
		<hr/>
		20 s.h.

VIDEO COMMUNICATIONS

Video Communications Major (40 s.h.)

Required Major Courses:

SPH 105	Speech Communication	3 s.h.
SPH 251	Survey of Telecommunications	3 s.h.
SPH 351	Television Production Techniques I	3 s.h.
SPH 352	Television Production Techniques II	3 s.h.
SPH 371	Scriptwriting, Proposal Writing, & Budgeting for Television	3 s.h.
SPH 381	Single Camera Video Production	3 s.h.
SPH 451 or SPH 491	Directing & Producing for Television Co-op	3 s.h. 3-12 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Electives - to be chosen from:	15 s.h.
	SPH 341 Acting Techniques I (4 s.h.)	
	SPH 342 Acting Techniques II (4 s.h.)	
	SPH 415 Film Appreciation (4 s.h.)	
	SPH 491 Co-op (3-12 s.h.)	
		<hr/> 40 s.h.

Video Communications Major - Associate Degree (24 s.h.)

Required Major Courses:

SPH 105	Speech Communication	3 s.h.
SPH 251	Survey of Telecommunications	3 s.h.
SPH 351	Television Production Techniques I	3 s.h.
SPH 352	Television Production Techniques II	3 s.h.
	Major Electives	12 s.h.
		<hr/> 24 s.h.

Video Communications Minor (24 s.h.)

Required Minor Courses:

SPH 251	Survey of Telecommunications	3 s.h.
SPH 351	Television Production Techniques I	3 s.h.
SPH 352	Television Production Techniques II	3 s.h.
SPH 381	Single Camera Video Production	3 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
	Minor Electives - to be chosen from:	9 s.h.
	SPH 105 Speech Communication (3 s.h.)	
	SPH 341 Acting Techniques I (4 s.h.)	
	SPH 342 Acting Techniques II (4 s.h.)	
	SPH 371 Scriptwriting, Proposal Writing, & Budgeting for Television (3 s.h.)	
	SPH 415 Film Appreciation (4 s.h.)	
	SPH 451 Directing & Producing for Television (3 s.h.)	
	SPH 491 Co-op (3-12 s.h.)	
		<hr/> 24 s.h.

VOCATIONAL AUTHORIZATION OR ENDORSEMENT

Individuals who have worked two years in a particular health field or trade or industry can apply for recommendation by Madonna College to the State Department of Education for a Temporary Vocational Authorization, valid for teaching in State-reimbursed vocational classrooms, provided that they have also completed a Bachelor's degree program and have a major in the health, trade, or industry area. In order to be recommended, the student must complete a minimum of 12 s.h. of coursework at Madonna College, including EDU 200 and EDU 312, and must successfully complete the Teacher Education Program Basic Skills Tests.

In order to be recommended for a secondary provisional teaching certificate with a vocational endorsement, the student must meet the above requirements, and complete an academic minor, and the Teacher Education Program (see Education section of this bulletin).

WRITING

Professional & Technical Writing Major (40 s.h.)

Required Major Courses:

ENG 200	Technical Writing	3 s.h.
ENG 262	Language & Culture	3 s.h.
ENG 326 or	Business & Professional Writing	3 s.h.
ENG 344	Advanced Technical Writing	3 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 205	Public Relations Writing	3 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
SPH 105	Speech Communication	3 s.h.
HUM 495	Senior Seminar	1 s.h.
	Major Electives - to be chosen from:	18 s.h.

ENG 262 Language & Culture (3 s.h.)

ENG 295 Critical Writing & Literary Analysis (4 s.h.)

ENG 310 Advanced Composition & Research Strategies (3 s.h.)

JRN 286 Editorial & Feature Writing (3 s.h.)

JRN 313 Photography I (3 s.h.)

JRN 314 Photography II (3 s.h.)

JRN 316 Newspaper Production (2 s.h.)

ENG 344 Advanced Technical Writing (3 s.h.)

JRN 351 Television Production Techniques I (3 s.h.)

JRN 357 Editing & Copyreading (3 s.h.)

JRN 371 Scriptwriting, Proposal Writing, &
Budgeting for Television (3 s.h.)

JRN 416 Advanced Newspaper Production (2 s.h.)

JRN 491 Journalism/Public Relations Practicum (3-12 s.h.)

BUS 244 Principles of Marketing (3 s.h.)

BUS 255 Consumer Behavior (3 s.h.)

BUS 307 Promotional Strategy (3 s.h.)

CIS 342 Computer Graphics in Business (2 s.h.)

40 s.h.

Professional & Technical Writing Minor (24 s.h.)

Required Minor Courses:

ENG 200	Technical Writing	3 s.h.
ENG 326	Business & Professional Writing	3 s.h.
JRN 132	Newspaper Reporting	3 s.h.
JRN 205	Public Relations Writing	3 s.h.
JRN 401	Foundations of Mass Communication	3 s.h.
SPH 105	Speech Communication	3 s.h.
	Minor Electives - to be chosen from: (See list of major electives above.)	6 s.h.

24 s.h.

COURSES DESCRIPTIONS

To the Student: What follows is a description by department of all the courses offered at Madonna College. Students are encouraged to see their academic advisors to review courses and to make course selections. An asterisk (*) is included in parentheses after a course which is cross-listed in other departments; the asterisk indicates the department in which the course originates and in which the full course description can be found. Example:

405 Constitutional Law (CJ*/LAW)

This course is taught in the Criminal Justice (CJ) Department.

ALLIED HEALTH MANAGEMENT (AHM)

101 Medical Terminology 2 s.h.
Basic understanding of medical vocabulary and its use.

201 Introduction to Health Technology (MTE) 2 s.h.
Academic, professional and certification requirements of health technologies with emphasis on ethical, technical and procedural orientation.

375 Allied Health Management (BUS*/RTE) 3 s.h.

380 Health Care Organization 2 s.h.
A review of recent legislative, judicial, and political decisions which influence the workings of the health care industry. Examination of issues complicating the roles of health professionals as providers and consumers.

393 Internship I 1-6 s.h.
Supervised clinical administrative practice in an approved facility.
Prerequisite: departmental approval.

394 Internship II 1-6 s.h.
Supervised clinical administrative practice in an approved facility.
Prerequisite: department approval.

474 Health Care Finance 2 s.h.
A survey course addressing issues of medical cost inflation, models of provider behaviors, access to services and uncompensated care, regulatory language and those policies and procedures impacting on management by involvement for the health care professional. Prerequisite or corequisite: ECN 271 or equivalent.

476 Allied Health Administration (MTE/RTE) 2 s.h.

Current concepts of administrative practice in allied health and related service occupations. Institutional assessment and contemporary practices within the system impacting on responsibility, utilization review and risk management. Prerequisite: BUS 375.

478 Allied Health Education (MTE/RTE) 2 s.h.

Examination and assessment of principles of educational practice in the health care professions. Preparation, delivery and evaluation of materials for the patient, community, or clinical preceptor situation.

495 Senior Seminar (MTE/RTE) 2 s.h.

Preparation and presentation of paper in allied health discipline. Required of students graduating in allied health management.

APPLIED SCIENCE (APS)

302 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.

495 Senior Seminar 2 s.h.

Preparation and presentation of a 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.

ART (ART)

105 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.

121 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 105 or permission of instructor.

201 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.)

202 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.)

207 Creative Design & Color 4 s.h.
Elements and principles of 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.

210 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 105, 121 or permission of instructor.

268 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. Prerequisite: ART 105, 121 and 207 or permission of instructor.

270 Introduction to Computer Art 2 s.h.
Design principles and procedures on the Mackintosh as applied to creative graphic design projects.

275 Painting & 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. Prerequisite: ART 105 and 207.

280 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 207 or permission of instructor.

305 Lettering & 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 commercial art students.

313 Photography I (JRN*) 3 s.h.

314 Photography II (JRN*) 3 s.h.

- 316 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.)
- 325 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.
- 326 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.
- 330 Advanced Drawing** 3 s.h.
Life drawing among a variety of subjects developing contemporary approaches to realistic and abstract compositions.
- 331 Advanced Painting** 3 s.h.
Advanced level instruction in one of the following media: oil, watercolor, acrylics, or mixed media.
- 335 Art & Culture of Asia (HUM)** 3 s.h.
The cultural traditions and aesthetic contributions of India, China, and Japan as reflected in miniature and scroll painting, sculpture, architecture, ceramics, bronze, jade and garden design.
- 339 Oriental Brushwork** 2 s.h.
A studio course based on the theory and practice of Chinese & Japanese ink brush painting. Lecture and grinding of ink each class.
- 346 Relief & 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 105, 207 or permission of instructor.
- 361 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 268.
- 408 Three Dimensional Forms** 4 s.h.
Three dimensional forms including sculpture or ceramics. Choice of one medium made and experimented with in depth. Wood, stone, plaster as well as more contemporary materials employed.

- 415 Modern Art (HUM)** 4 s.h.
A detailed study of the art movements, artists and new media of the 19th & 20th centuries in Europe and contemporary America.
- 425 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.
- 440, 441 Advanced Studio** 2-4 s.h.
Independent advanced work in media and disciplines not currently offered, such as advanced painting, design, sculpture, advertising, etc. Permission of department head and instructor required.
- 447 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.
- 448 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.
- 475 Studies in Art History** 3 s.h.
Topics in art history will vary according to period, artists, school, culture or patronage. Prerequisite: ART 202 or permission of instructor.
- 495 Senior Seminar (HUM)** 1 s.h.
Required of all fine arts majors.

BIOLOGY (BIO)

- 101 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.

103, 104 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 111 or equivalent. One year of high school biology and chemistry recommended.

224 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.

226 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 161 or 221 and BIO 103 or 224 or 243.

243, 244 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.

301 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. Prerequisite: 12 s.h. of biology including BIO 226; MTH 235; CHM 361 recommended.

317 Invertebrate Zoology (Parasitology)

4 s.h.

Study focuses upon the morphology, classification, life cycles, epidemiology and control of major human parasites. Laboratory will emphasize the identification of parasitic adult and larval forms as observed in clinical specimens. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 226.

328 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. Prerequisite: BIO 226 and CHM 361; BIO 301 recommended.

- 350 Medical Mycology** 4 s.h.
 Studies in the isolation and identification of fungi with emphasis on the fungi of medical importance. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIO 226.
- 361 Epidemiology** 3 s.h.
 Study of factors involved in the occurrence and prevention of diseases within human populations. Prerequisite: BIO 226.
- 371 Pathophysiology** 3 s.h.
 Study of disease processes affecting normal functioning of the human body in cardiovascular, pulmonary, endocrine, neurological and renal systems. Prerequisite: BIO 243, 244.
- 402 Advanced Human Physiology** 4 s.h.
 A study of the normal functioning of the human organ systems with emphasis on muscle, nerve, and cardiovascular physiology. Special topics include cellular transport and acid-base balance. Prerequisite: BIO 224 or 244.
- 427 Clinical Bacteriology** 4 s.h.
 Study of the qualitative and quantitative aspect of bacteriology in relation to diseases as found in humans. Methods of detection, isolation, enumeration, toxin production and techniques in the identification of pathogenic bacteria. Lecture 2 hours, laboratory 6 hours. Prerequisite: BIO 226; BIO 328 recommended.
- 470 Biological Investigation** 1-4 s.h.
 Independent research, directed reading or special problems under the supervision of a faculty member. Prerequisite: recommendation of major advisor and problem director.
- 495 Senior Seminar** 2 s.h.
 Preparation and presentation of a scientific paper. Taken by students with senior status as a requirement for graduation.

BUSINESS ADMINISTRATION (BUS)

- 099 Language of Business** 2 s.h.
 A pre-business class, designed to develop increased vocabulary skills of key business concepts and basic operating techniques. Emphasis on developing a personal glossary of business terms, and creating suitable examples (scenarios) to illustrate the application and usefulness of each term. Special attention is given to students having limited skills in reading, writing, and/or understanding basic business procedures. Note: This class is not considered a substitute for BUS 101.

- 101 Contemporary Society & 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 major or minor. (Also offered through TV.)
- 201 Principles of Accounting I** 4 s.h.
 Elementary accounting theory and procedures, including classification of accounts, journalizing, posting, preparation of working papers and financial statements, recording of plant assets, inflation accounting and partnership accounting. A computer application is included. Prerequisite: CIS 238.
- 202 Principles of Accounting II** 4 s.h.
 Continued study of accounting principles, emphasizing capital stock, cost accounting, budgeting and income tax considerations. A computer application is included. Prerequisite: BUS 201.
- 216 Human Behavior & Attitudes (CJ)** 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. No credit within business major.
- 236 Principles of Management (CJ)** 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. (Also offered through TV.)
- 242 Principles of Financial Administration** 3 s.h.
 Introduction to the principles of financial administration. Pertinent topics of management of financial institutions, capital investment, liquidity, internal audit, and control. Prerequisites: BUS 201 and ECN 273.
- 244 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. (Also offered through TV).
- 255 Consumer Behavior (FCR)** 3 s.h.
 The study of the impact of consumer behavior 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: BUS 244.

- 302 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: BUS 236.
- 303 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 tangible and intangible assets. A computer application is included. Prerequisite: BUS 202.
- 304 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, changing prices, financial statement analysis, liabilities, and statement of changes in financial position. Prerequisite: BUS 303; must be taken at Madonna College.
- 307 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. Prerequisite: BUS 244 and 255.
- 310 Introduction to Personnel Administration** 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: BUS 236.
- 313 Managerial Accounting** 3 s.h.
Management use of accounting information for planning and control. Topics: basic cost concepts, CVP analysis, relevant costs, budgets, product costs, and capital expenditures. No credit for accounting majors. Prerequisite: BUS 202.
- 314 International Business** 3 s.h.
The relationship of culture, politics, law, and economics to the operation of multinational business. Takes an integrated approach to marketing, finance, law, management, sociology, political science and economics.
- 315 Business Finance** 3 s.h.
Introduction to theories and practices of financial management; emphasis on principles of financial return, analysis, and planning; includes consideration of cash management. Prerequisites: BUS 202, MTH 235, ECN 272.

- 316 Human Behavior & Leadership (CJ)** 2 s.h.
 Leadership and its relationship to theory, style, time management, problem solving, personal power, team building, and self-assessment. Prerequisite: junior standing or full-time work experience.
- 333 Business Law** 3 s.h.
 Study of law and its relationship to business and society; emphasis on contracts, performance, sales, agency, liability, personal property, bailments, bankruptcy, credit consumer protection, federal regulation, and processes of litigation and adjudication. Studies involve critical reading and application of legal fundamentals to actual cases. Prerequisite: BUS 236 or consent of instructor.
- 355 Applied Business Statistics** 4 s.h.
 Analysis of quantitative data in applied business settings. Computer analysis of data is extensive. Topic areas include: linear regression forecasting, normal curve, quality control operations, production management, linear programming, test for difference, analysis of difference, analysis of variance and related procedures. Emphasis on pragmatic application of quantitative data analysis coupled with qualitative interpretation for optimal business decision making. Prerequisite: CIS 238 and MTH 235, junior standing.
- 358 Taxation I (LAW)** 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. Prerequisite: BUS 202.
- 361 Taxation II (LAW)** 3 s.h.
 Continued study of principles of taxation; emphasis on business entities, estates and trusts. Prerequisite: Business 358.
- 363 Materials & 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: BUS 236; MTH 235 or BUS 355.
- 366 Industrial Marketing** 3 s.h.
 A study of industrial 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 evaluating industrial marketing strategies. Prerequisites: BUS 201, 236, 307.

- 368 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. Prerequisites: BUS 236, 244 and ENG 102.
- 369 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: BUS 201, 236, 244 or consent of instructor.
- 370 Cost Accounting** 3 s.h.
Analysis including product and process costs. Emphasis on techniques for planning and control, such as budgets, variance analysis, and measures of profitability. Prerequisite: BUS 303; must be taken at Madonna College.
- 371 Institutional Portfolio Management** 3 s.h.
Analysis of the savings/investment process. An appraisal of the relative values and importance of various instruments, kinds and types of investment is made. The role of government in the investment-making function is discussed as to its impact on the outcome of investment decisions. Prerequisite: BUS 315.
- 373 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. Examination of the strategic, practical, and ethical dimensions of advertising through applications. Prerequisites: BUS 307 or 368.
- 375 Allied Health Management (AHM/RTE)** 3 s.h.
Management problems and practices in health care facilities. Prerequisite: BUS 236.
- 387 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: BUS 244 and 236.

- 395 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, BUS 244, BUS 236. Recommended: PHL 408.
- 405 Advanced Accounting** 4 s.h.
 Advanced accounting theory as it applies to partnerships, consolidations, home office and branch accounting installment sales. Fund accounting concepts. Prerequisite: BUS 304.
- 406 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: BUS 304.
- 415 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: BUS 355, minimum of 12 s.h. in marketing, and senior standing.
- 419 Special Problems** 1-3 s.h.
 Pragmatic approach to selected problems of interest which are not normally included in existing courses. Prerequisite: junior level or full-time work experience.
- 421 Production & 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 and production and inventory planning and controlling systems. Prerequisite: BUS 236 and 355.
- 427 Human Resource Development** 3 s.h.
 Processes involved in retraining and developing the human resources of any organization; includes learning theory and its pathing and consulting techniques. Prerequisite: BUS 302 and senior standing.
- 442 Research in Business** 4 s.h.
 Study of research design, instruments, sampling, computerization of data, statistical analysis, and interpretations of research results. Application and experience in the use of appropriate computer statistical packages. Attention to qualitative as well as quantitative methodology. Emphasis on developing and conducting actual research studies. Prerequisites: business major, senior standing, CIS 238 and BUS 355.

445 International Management 3 s.h.

An examination of the managerial issues relevant to an enterprise operating on an international level. Exploration of the specific problems of importation and exportation of commodities. An overview of the differing managerial practices of enterprises of various nations around the world. Discussion of the economic, social and cultural aspects of alternative management methods as they relate to the needs and characteristics of the nations examined. Prerequisite: BUS 236 and 314.

450 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: BUS 405.

451 Economic & Business History of the United States (ECN/HIS*) 4 s.h.

464 Managerial Finance 3 s.h.

An upper level course in financial management. Theory is stressed in capital budgeting, interest rate, financial intermediation, and international financial management. The three financial functions of managers discussed at an advanced level: the investment decision, the financial decision, and the dividend decision. Prerequisite: BUS 315.

491 Cooperative Education 1 s.h.

495 Business Policy 3 s.h.

Capstone course; 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 enterprise and to apply strategic management in developing business policy. Case study approach. Prerequisites: business administration or computer information systems major; to be taken in final six hours of program.

CHEMISTRY (CHM)

099 Fundamentals of Chemistry 2 s.h.

Introduction to the language and concepts of chemistry. Includes mole concept, atomic theory and structure, the periodic table, bonding, chemical reactions and equations, stoichiometry, and some solution chemistry. (For credit, but not applicable toward degree.) Prerequisite: one year of high school algebra or MTH 104 with grade of C or better.

101 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. This course may be used to satisfy the physical science general education requirement and the chemistry prerequisite for CHM 111. Lecture 3 hours, recitation 1 hour, laboratory 2 hours. Prerequisite: one year of high school algebra or MTH 104 with grade of C or better.

111 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 101 with grade of C or better; one year of high school algebra or MTH 104 with grade of C or better. Two years of high school algebra highly recommended, or MTH 104 and 105 with grades of C or better.

112 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 111 or equivalent; prerequisite or corequisite MTH 106 or 121 or equivalent.

161 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: CHM 111 with grade of C or better. (Does not apply toward chemistry major or minor.)

221 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 111 or equivalent.

222 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. Prerequisite: CHM 111 and 221.

331 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. Prerequisite: CHM 111, 112, 221, MTH 121 or equivalent.

351 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. Prerequisite: CHM 111, 112, MTH 121 or equivalent.

361 Biochemistry I 4 s.h.

Principles of biochemistry; major metabolic and biosynthetic pathways structure and conformation of biological molecules; and molecular biology of these molecules. Laboratory exercises in enzyme kinetics, electrophoresis, chromatography and DNA isolation and manipulation. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHM 111, 221.

362 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. Prerequisite: CHM 111, 221, and 361.

441 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. Prerequisite: CHM 111, 112, 221; MTH 251, 252; PHY 253, 254.

442 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. Prerequisite: CHM 111, 112, 221, 441; MTH 251, 252; PHY 253, 254.

451 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; other current topics. Lecture 3 hours, laboratory 3 hours. Prerequisites: CHM 111, 112, 221; MTH 121 or 251 and 252; PHY 253, 254.

490 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.

495 Senior Seminar 2 s.h.

Preparation and presentation of a scientific paper. Taken by students with senior status as a requirement for graduation.

COLLEGE (COL)

101 Orientation to Higher Education 1 s.h.

This course is designed to provide first-year students with information and insights into themselves and into the demands of higher education. It will introduce students to college policies and procedures, assist them in developing study strategies, time and stress management skills, personal and multicultural awareness, career exploration, decision making skills and in meeting the challenges of leadership and involvement in order to be more effective in college.

COMPUTER INFORMATION SYSTEMS (CIS)

225 Computer Fundamentals 2 s.h.

Introduction to the fundamentals of computers for the non-technical person. Study the operating functions of both the hardware and software components of an information system. Emphasis on hands-on experiences with word processing, spreadsheet, and data base management systems. Study the evolution, application, and ethical aspects of computer systems. Does not apply towards credit for business or computer information systems majors.

238 Introduction to Computers 3 s.h.

Study the evolution of computers and the operating functions of the hardware, systems software, application software, data communications, and ethics of data storage and retrieval; explore 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, data base management and electronic mail.

243 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 of BASIC. Proposed solutions will be coded in BASIC. Prerequisite: CIS 238.

- 245 Programming Applications I: RPG II** 3 s.h.
 Problem-solving with the computer, using the computer language RPG II, numerical and non-numerical applications in a business environment; emphasis on translating specifications into RPG II, using a top-down structured approach. Prerequisite: CIS 243.
- 248 Programming Applications II: COBOL** 3 s.h.
 Problem-solving with the computer, using the computer language COBOL, numerical and non-numerical applications in a business environment; emphasis on understanding program specifications, translating specifications into COBOL and developing top-down structured design. Prerequisite: CIS 243.
- 291 Co-op I: Computer Operations** 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 248.
- 330 Information Systems for Decision Making** 2 s.h.
 Methodology of information system design (including accounting, production, inventory and human resource systems) from the perspective of the user; hands-on experience in working with data base, word processing, and managerial decision-making tools. Prerequisite: CIS 225 or 238. No credit for computer information systems majors.
- 341 Programming Applications III: PASCAL** 3 s.h.
 Problem-solving with the computer, using the computer language PASCAL: numerical and non-numerical applications in a business environment; covers basic PASCAL programming constructs, user-defined scalars, pointers, subroutines, and functions. Prerequisites: CIS 243 and one programming course.
- 342 Computer Graphics in Business** 2 s.h.
 Study the principles behind the software packages being used to generate graphics. Identify needs and applications for graphics in business. Investigate hardware innovations. Prerequisites: CIS 225 or 238 or MTH 208 or equivalent.
- 345 Systems Analysis & Design** 3 s.h.
 An overview of the systems life cycle with emphasis on techniques and tools of analysis, design, documentation, and logical system specification. Prerequisite: CIS 248.
- 348 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 243 or equivalent, MTH 105, and working knowledge of a procedural language other than COBOL.

385 Data Base Management

3 s.h.

Introduction to the concepts and structures necessary to implement a data base system. Prerequisite: CIS 348.

386 Decision Support and Expert Systems

2 s.h.

Study of how computers can be used as tools to gain the insight needed to support selection of decision alternatives in business problem solving. Methodology of assembling and organizing data and designing the line of reasoning and the logical chain for problem solving. Prerequisite: CIS 345.

**388 Programming Languages: Procedural, Nonprocedural
& Fourth Generation**

3 s.h.

Problem solving with the computer using different types of languages: procedural, nonprocedural, and fourth generation. Covers advantages, disadvantages, and applications for each type. Some programming involved. Prerequisite: CIS 385.

389 Computer Information Systems Structure

2 s.h.

Study of computing equipment and the organization of components and devices into information system configurations. Discuss the principles of system software and build an understanding of combinations of hardware and software within architectural designs. Prerequisite: CIS 388.

419 Special Problems

1-4 s.h.

Pragmatic approach to selected problems of interest which are not normally included in existing courses. Prerequisite: junior level or full-time work experience.

425 Advanced Office & Telecommunications Systems

2 s.h.

Structured analysis and design of hardware/software systems in an advanced office environment. Considers centralization vs. distribution, communication technologies, distributed data bases, distributed processing, and management concerns. Prerequisite: CIS 385.

432 Audit & Control of Accounting & 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 345 or 330 and BUS 202.

455 Advanced System Programming & Design

3 s.h.

Advanced coverage of the strategies and techniques of structured systems development and applications programming, using COBOL. Prerequisites: CIS 345 and 385.

490 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. Investigate the administrative and management issues relative to administration of the information systems function. Prerequisites: CIS 345; must be taken within final six hours of major.

491 Co-op II: Programming/Analysis 1 s.h.

Experience in a computer environment; applies skills and techniques learned in programming and systems courses to a systems development project. Prerequisites: CIS major; to be taken within final six hours of major.

CRIMINAL JUSTICE (CJ)

102 Introduction to Criminal Justice 3 s.h.

Study of agencies and processes to the criminal justice system. Responsibilities of the police, prosecutor, courts, corrections and society in the criminal justice process.

121 Introduction to Corrections 3 s.h.

Philosophical and historical background of corrections; European antecedents and the American evolution of correctional facilities and programs; survey of career opportunities.

201 Criminal Justice Organization & Administration (PSC) 3 s.h.

Organization and management of the various criminal justice agencies through the United States. Includes systems of management, alcoholism as a management problem, and systems analyses and their relationships.

211 Law Enforcement Administration 3 s.h.

Organization and Management of law enforcement agencies, the role of the police administrator in line and staff functions. Investigation of areas of police qualifications, promotional standards and cadet systems.

213 Traffic Operations, Administration & Investigation 3 s.h.

Role of police administrator in traffic operations, administration and supervision. Strategies for moving and controlling traffic; investigations of vehicular accidents; familiarization with traffic safety programs.

216 Human Behavior & Attitudes (BUS*) 2 s.h.

- 231 Correctional Justice Organization & Administration 3 s.h.**
 Organization and management principles of correctional agencies; correctional procedures, rights and processes.
- 233 Interviewing Techniques (SOC*) 3 s.h.**
- 235 Probation & Parole 3 s.h.**
 History and philosophy of probation and parole; function and operation of pardon and parole boards; statutory limitations; modern trends; personnel qualifications.
- 236 Principles of Management (BUS*) 3 s.h.**
- 265 Criminal Law 3 s.h.**
 History, purposes and philosophy of criminal law, local, state and federal law; development, application and rights of the offender.
- 280 Principles & Methods of Corrections I 3 s.h.**
 Legal aspects of probation, drug addition and alcoholism; analysis of human behavior from the viewpoint of corrections; understanding basic counseling techniques and establishing therapeutic relationships.
- 281 Principles & Methods of Corrections II 3 s.h.**
 Continuation of CJ 280 including demonstration of practical ability to apply counseling psychology to casework. Prerequisite: CJ 280.
- 291, 391, 491 Practicum in Criminal Justice/Co-op 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 co-op.
- 301 Basic Police Training 3 s.h.**
 Credit awarded to those who have successfully completed 240 instruction hours in a Michigan Regional Police Academy, or equivalent instruction.
- 302 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.
- 303 Jail Operations 2 s.h.**
 Credit awarded to those who successfully complete the U.S. Bureau of Prisons course in "Jail Operations."
- 304 Jail Administration 2 s.h.**
 Credit awarded to those who successfully complete the U.S. Bureau of Prisons course in "Jail Administration".

- 305 Criminal Procedures (LAW) 3 s.h.**
 Procedural law for law enforcement officers. Law of arrest, evidence and search and seizure. Prerequisite: CJ 265.
- 310 Introduction to Public Administration (PSC/PAD*) 4 s.h.**
- 311 Criminal Investigation 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.
- 316 Human Behavior & Leadership (BUS*) 2 s.h.**
- 321 Principles of Criminology (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.
- 323 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.
- 355 Contemporary Correctional Methods 3 s.h.**
 Current practices and trends in correctional methods; parole, probation and correctional institutions.
- 401 Crime Prevention & Police Community Relations (SOC) 3 s.h.**
 Social responsibility of criminal justice personnel; cooperation between criminal justice personnel and the community; emphasis on minority groups, political pressure and cultural problems.
- 402 Human Relations for Corrections 3 s.h.**
 Study of the sociological, psychological and political determinants in the development of human relations as viewed from aspects of corrections in the criminal justice system.
- 405 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.
- 412 Organized Crime Institute 3 s.h.**
 History, scope and methods of control of organized crime in the United States. Emphasis on local, regional and statewide control of organized crime; social implications of organized crime.

- 418 Narcotics Institute (SOC) 3 s.h.**
Problems faced by local, state, federal and international law enforcement agencies concerning drug manufacture, trafficking and investigative techniques. Examination of social problems caused by drug use.
- 423 Homicide Investigation 3 s.h.**
Study of many facets which comprise a thorough, sound and reliable homicide investigation; inquiry into new investigative techniques as well as a review of State laws concerning homicide. Consideration of case preparation, warrant writing, arrests, arraignment and preliminary examinations.
- 435 The American Judicial Process 3 s.h.**
Analysis of the American state and federal court system; a comparative study of foreign court systems. Prerequisite: CJ 265 and 305 or chairperson's permission.
- 495 Criminal Justice Seminar 3 s.h.**
Evaluation of criminal justice practices and procedures. Emphasis on contemporary criminal justice problems and their solutions.

ECONOMICS (ECN)

- 271 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 business, economics, or computer information systems majors.)
- 272 Principles of Microeconomics 4 s.h.**
Theories of production and cost, demand, supply, competition, consumer behavior, and distribution of income. Prerequisite: MTH 105.
- 273 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. Prerequisite: MTH 105. Recommended: ECN 272.
- 380 Money & 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 272, 273, and BUS 201.

435 International Trade & Finance 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. Prerequisite: ECN 272 and 273.

451 Economic & Business History of the United States (BUS/HIS*) 4 s.h.

454 Intermediate Macroeconomics 3 s.h.

An examination of the economic process and economic science in a market-driven economy. Special reference is made to economic fluctuations and forecasting. Economic analysis, measurement, and economic policy are stressed. Some contemporary methods of economic forecasting as they relate to national income accounts, survey of future events, diverse time series, and computer modeling approaches. Fiscal and monetary measures are discussed. Prerequisites: ECN 272 and 273.

EDUCATION (EDU)

200 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 101.

243 Mathematics Foundations (MTH*) 4 s.h.

300 Children's Literature & Drama (ENG*/SPH) 4 s.h.

302 Program Planning for Older Adults (GER*) 3 s.h.

307 Social Studies Foundations (SSC*) 3 s.h.

309 Music for the Classroom Teacher (MUS*) 2 s.h.

312 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. Prerequisite: PSY 101 and EDU 200.

316 Art for the Elementary School Teacher (ART*) 2 s.h.

321 Principles of Reading Instruction 3 s.h.

Application of psychological principles to the reading-learning process: development and demonstration of competencies essential to effective teaching of reading. Lecture 2 hours, laboratory 1 hour. Prerequisite: PSY 101 and EDU 200.

- 330 The Exceptional Learner in the Classroom (SED) 3 s.h.**
 Study of physical, psychological, social and educational factors related to exceptional individuals, including intellectually gifted and the handicapped. Emphasis upon collaborative historical, legal, legislative, and futurist aspects of education for the exceptional. Prerequisite: EDU 200 or departmental approval.
- 335 Language Arts & 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. Prerequisite: ENG 101 and EDU 200.
- 346 Instructional Media 2 s.h.**
 Selecting, evaluating and using appropriate media, including microcomputers, as an integral part of the curriculum to achieve stated learning or behavioral objectives, as well as to have experience in preparing and using audio-visual materials and equipment for effective classroom presentations.
- 372 Diagnosis & Remedial Techniques in Reading 3 s.h.**
 Identification of reading and associated difficulties; methods in diagnostic and remedial work; use of tests and clinical apparatus in improvement of learning; modification of reading materials to meet the needs of handicapped students; observations and laboratory experiences. Lecture 2 hours, laboratory 1 hour. Prerequisite: EDU 321.
- 373 Science Foundations I: Chemistry & Life Science (NSC*) 4 s.h.**
- 374 Science Foundations II: Earth Science, Physics & Astronomy (NSC*) 4 s.h.**
- 382 Reading in the Curriculum 3 s.h.**
 Identification of skills to be developed at different maturational levels, with emphasis on reading in the content areas and organization of reading programs. Lecture 2 hours, laboratory 1 hour. Prerequisite: EDU 321.
- 413 Parents and Teachers - Partners in Education (FCR*) 3 s.h.**
- 421 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.)
- 440 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 312.

449 Theory & Techniques of Instruction: Middle School (5-9) 4 s.h.

Theory of instruction, methods, and materials in the middle school; curriculum observations of classroom procedures; 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. Offered Fall, Winter. Prerequisite: EDU 200 and 312.

450 Theory & 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; 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. Offered Fall, Winter. Prerequisite: EDU 200 and 312.

451-461 Theory & Techniques of Instruction: Major Field (Secondary) 4 s.h.

Theory of instruction, secondary methods and materials in the secondary subject-matter fields in which students expect to teach; observations of classroom procedures; 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. Prerequisite: EDU 200 and 312.

451 Theory & Techniques of Instruction: Art (K-12) 4 s.h.

452 Theory & Techniques of Instruction: Communication Arts (7-12) 4 s.h.

453 Theory & Techniques of Instruction: Foreign Languages (7-12) 4 s.h.

454 Theory & Techniques of Instruction: Home Economics & Family Life (7-12) 4 s.h.

455 Theory & Techniques of Instruction: Mathematics (7-12) 4 s.h.

456 Theory & Techniques of Instruction: Music (K-12) 4 s.h.

457 Theory & Techniques of Instruction: Natural Science (7-12) 4 s.h.

458 Theory & Techniques of Instruction: Social Science (7-12) 4 s.h.

459 Theory & 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. Prerequisite: EDU 200 and 312.

461 Theory & Techniques of Instruction: Computer Science (K-12) 2, 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 481, Seminar: Directed Teaching, 1 s.h. Level change candidates must register for a minimum of 4 s.h.

468 Directed Teaching: Computer Science (K-12) 4, 8 s.h.

Observations and teaching in classroom situations and individual conferences.

469 Directed Teaching: Middle School (5-9) 4, 8 s.h.

Observations and teaching in classroom situations and individual conferences.

470 Directed Teaching: Elementary School (K-8) 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

471-479 Directed Teaching: Secondary School 4, 8 s.h.

Observations and teaching in classroom situations; individual conferences and seminars.

471 Art (K-12) 4, 8 s.h.

472 Communication Arts (7-12) 4, 8 s.h.

473 Foreign Languages (7-12) 4, 8 s.h.

474 Home Economics & Family Life (7-12) 4, 8 s.h.

475 Mathematics (7-12) 4, 8 s.h.

476 Music (K-12) 4, 8 s.h.

477 Natural Science (7-12) 4, 8 s.h.

478 Social Science (7-12) 4, 8 s.h.

479 Vocational/Technical (9-12) 4, 8 s.h.

480 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. Prerequisite: EDU 200 and 312.

481 Seminar: Directed Teaching 1 s.h.

Field trips, workshops, community resources, public and private school personnel, college faculty and student resources utilized to provide students in directed teaching contacts with practical information which can be applied in the classroom.

485 Reading Practicum 2-4 s.h.

Supervised clinical and classroom teaching of reading. Thirty clock hours of laboratory for each semester hour. Prerequisite: EDU 321, 372, at least two years of teaching experience, and approval of instructor.

EMERGENCY MEDICAL TECHNOLOGY (EMT)

101 Advanced First Aid/First Responder 3 s.h.

Provides information and practical skills to allow recognition of the need for first aid and techniques to provide that assistance until more qualified rescuers are available. Upon successful completion the students will receive both CPR and Advanced First Aid Cards.

155 Basic EMT 10 s.h.

Emphasis on the fundamental principles and practices of basic life support including patient assessment and recognition of manifestation of illness and injury; implementation of emergency care and procedures including airway management, extrication and transport, control of hemorrhage and shock. Application of knowledge in diverse medical and environmental emergencies including emergency childbirth, burns, drug overdose and multiple trauma situations. Prerequisite: EMT 101 or current Advanced First Aid and CPR Cards.

233 Pharmacology (NSC) 3 s.h.

An in-depth study of the pharmacological agents commonly used in advanced life support situations with emphasis on those effecting the autonomic and central nervous systems. Prerequisite: BIO 243, 244 or consent of instructor.

255 Principles of EMT Instruction & Coordination 3 s.h.

Focuses on the concepts and techniques of designing EMT programs and applying for State approval; implementation of the principles of learning and instruction in a supervised teaching situation; discussion of overall administrative responsibilities of the EMT instructor/coordinator.

278 Specialized Practice in EMT 6 s.h.

Focuses on the physiological disturbances resulting from trauma and illness; principles and practice of pre-hospital advanced life support; promotion of physical assessment skills including chest and heart auscultations; immediate pre-hospital intervention including administration of IVs and endotracheal intubation. Prerequisite: EMT 155; BIO 243, 244.

294 Advanced Practice in EMT 10 s.h.

Emphasis is on the application of principles and practice of advanced life support for patients with acute cardio-vascular alterations; reinforcement of physical assessment skills including EKG interpretation; pre-hospital

treatment modalities for cardiac arrhythmia including drug therapy, cardioversion and defibrillation; maintaining a working knowledge of the operation of a long-range ECG telemetry and the communication network used in the EMS system for pre-hospital emergency care. Prerequisite: EMT 233, 278; BIO 243, 244.

ENGLISH (ENG)

098 Vocabulary Building 3 s.h.

Vocabulary mastery program consisting of vocabulary improvement techniques and learning approaches to increase work usage and retention. (For credit but not applicable toward degree.)

099 Basic Writing Skills 3 s.h.

Instruction to meet individual needs in basic English writing skills; usage, vocabulary and composition. (For credit but not applicable toward degree.)

100 Developmental Reading 3 s.h.

Individualized program with emphasis on improving vocabulary, study skills, note taking, comprehension and reading.

101 Communication Skills I 3 s.h.

Study of strategies for sentence and paragraph development; application of such strategies in descriptive, narrative, and expository essays; examination of writing as a process; oral presentation; introduction to library resources. (Does not apply to any major or minor in Communication Arts department.)

102 Communication Skills II 3 s.h.

Application in essays of a variety of purposes such as cause/effect, comparison/contrast, and definition; special emphasis on argumentation; development of library research paper; study of professional writing; participation in stages of writing process; presentation of oral argument. (Does not apply to any major or minor in Communications Arts department.)

105 Creative Writing 4 s.h.

Critical study and practical application of the techniques of poetry, fiction, and drama, with emphasis on creative expression.

116 Portfolio Development 1 s.h.

Process of identifying prior learning and developing learning components; gathering necessary information; determining credit equivalency; and preparing portfolio for assessment.

132 Newspaper Reporting (JRN*) 3 s.h.

- 200 Technical Writing 3 s.h.**
Theory and application of technical writing principles; basis of library research and preparation of research paper; writing business letters, personal data sheets; the problems solving report, including graphics aids; practice in the oral presentation of technical information to groups.
- 223 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.
- 262 Language & Culture 3 s.h.**
A survey of major approaches to the study of language and communication, including: linguistic, semiotic, and communication theory; biological, psychological and philosophical perspectives; non-verbal communication and animal communication.
- 295 Critical Writing & 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 102.
- 300 Children's Literature & Drama (SPH/EDU) 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.
- 301 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; includes Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and Douglass.
- 302 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 to be expressly noted.
- 310 Advanced Composition and Research Strategies 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 science and business; use of wordprocessing and editing software for writing. Prerequisite: ENG 102 or department approval.
- 326 Business & Professional Writing 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 will be examined and developed. Word processor available. Prerequisite: ENG 102.

- 344 Advanced Technical Writing** 3 s.h.
Application of technical writing principles to individual career demands; analysis of case studies, with emphasis on appropriate strategies for various audiences; preparation of flyer/brochure, feasibility study, instructional manual. Word processor available. Prerequisite ENG 200 or departmental approval.
- 355 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.
- 361 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.
- 362 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.
- 371 Contemporary Literature** 4 s.h.
A study of contemporary American and British authors who may be classified as Modernist or Post-Modern; figures will include principal ethnic and minority writers.
- 421 Time & 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.
- 475 Studies in Literature** 4 s.h.
Topics in literature will vary on an annual basis. Seminar is required of English majors but is open to all students.
- 495 Senior Seminar (HUM*)** 1 s.h.

FAMILY & CONSUMER RESOURCES (FCR)

- 109 Fashion Industry** 3 s.h.
Basic principles that influence and govern all fashion movement; the history, development, organization, and merchandising activities of the clothing industry.
- 125 Health Problems (NSC*)** 4 s.h.
- 201 Creative Art & Music Experience (MUS)** 4 s.h.
Basic elements of art and music with guidelines for creative expression based on developmental needs of young children. Lecture 3 hours, laboratory 2 hours.

- 208 Creative Play & Movement Education 4 s.h.**
Principles of body awareness, space and qualities of movement in relation to self-expression and creative imagination of the child; selection of activities appropriate for children with special problems. Lecture 3 hours, laboratory 2 hours.
- 216 Child Development & Guidance 3 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.
- 225 Human Nutrition (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. Prerequisite BIO 224 or permission of instructor.
- 226 Introductory Food Science 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.
- 233 Fashion 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.
- 236 Clothing Selection & Construction 4 s.h.**
Principles of clothing construction related to fit, fabric and garment construction. Lecture 3 hours, laboratory 3 hours.
- 238 Maternal & 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.
- 242 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.
- 245 Life Span Developmental Psychology (PSY*) 4 s.h.**
- 246 Residential Management 3 s.h.**
Economic, aesthetic and managerial aspects of menu planning. Ethnic and cultural meal practices. Consumer problems in the purchase, use and care of food, kitchen equipment, table appointments, other furnishings and equipment for a residence.
- 255 Consumer Behavior (BUS*) 3 s.h.**

- 258 Child Development Curriculum** 3 s.h.
Emphasizes techniques in analysis, development, evaluation of instructional materials for curriculum in practicum setting.
- 262 Fashion Promotion & Coordination** 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.
- 270 Child Psychology (PSY*)** 4 s.h.
- 272, 273, 274 Child Care Practicum & Seminar** 2-4 s.h.
Planning, observation, and supervised experience in a child care center. Lecture 1 hour, laboratory 4 hours by arrangement. Prerequisite: FCR 258.
- 276 Food Service Sanitation** 1 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.
- 291 Co-op** 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: Approval of advisor.
- 293 Practicum** 1-4 s.h.
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: Approval of advisor.
- 301 Specialty Merchandising** 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.
- 305 Textiles** 4 s.h.
Basic principles and recent developments in textile products. Chemical and physical properties of fibers, yarns, fabric structures and finishes related to fabric care.
- 308 Visual Merchandising** 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 will be emphasized.
- 310 Language Development in Early Childhood** 3 s.h.
Presents theories and development of child's language from birth through early childhood. Includes experiences that facilitate language while considering social, emotional, intellectual, and physical development.

- 316 Administration of Child Care Centers 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.
- 325 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. Prerequisite: CHM 161 or 361, FCR 225.
- 326 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. Prerequisite: CHM 221, FCR 226.
- 327 Family Resource Management 3 s.h.**
 Management of human and material resources in the family with emphasis on use of time, money and energy; standards of living related to family concerns, values and goals.
- 331 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.
- 335 Advanced Clothing & Tailoring 4 s.h.**
 Detailed construction procedures; the principles of tailoring; working with novelty fabric, suede, leather, and fur. Lecture 3 hours, laboratory 3 hours. Prerequisite: FCR 236.
- 338 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: FCR 225.
- 346 Food Service Management I 3 s.h.**
 Purchasing standards, buying procedures, storage principles and factors affecting quality, efficiency and economy in quantity food production and service. Prerequisite: BUS 236, FCR 226. Corequisite: FCR 376
- 347 Retailing 3 s.h.**
 Principles of retail store management; emphasis is given to store location, layout, personnel, organization, buying inventory, sales promotion, customer services and operating expenses. Prerequisite: BUS 236, 244.

- 353 Marriage and the Family (RST/SOC) 4 s.h.**
 Marriage and family from the biblical, theological, economic, psychological and sociological points of view. (Interdisciplinary.) Prerequisite: junior or senior status.
- 363 Housing & Interior Design 4 s.h.**
 Basic principles of design and color related to house interiors and exteriors; emphasis on planning, selecting, and furnishing homes in terms of individual and family needs.
- 365 New York Fashions Field Study 2 s.h.**
 An in-depth study of the New York garment district emphasizing history, creation, production, and distribution of fashion. One week is spent in New York City.
- 376 Food Service Laboratory 2 s.h.**
 Laboratory experience and field trips related to quantity food preparation and service. Safety and efficiency in the use and care of specialized equipment. Laboratory 3 hours. Prerequisite: FCR 226, 246. Corequisite: FCR 346.
- 391 Co-op 1-4 s.h.**
 Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- 393 Practicum 1-4 s.h.**
 Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- 410 Philosophies in Early Childhood Education 3 s.h.**
 Montessori, Piaget, Behavior Analysis, Head Start, innovative programs explored; observations in preschools.
- 413 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.
- 425 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. Prerequisite: CHM 361, BIO 224, FCR 225.
- 432 Fashion Merchandising 3 s.h.**
 Merchandising functions of fashion buying with emphasis on the varied techniques used for planning, executing and evaluating merchandise. Prerequisite: BUS 236, 244, 255.

- 438 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: FCR 225.
- 442 Clinical Nutrition II** **2 s.h.**
Interpretation of laboratory data for nutritional screening and assessment. Calculations for tube feedings and total parenteral nutrition. Lecture and supervised practice in clinical setting. Prerequisite: CHM 361, FCR 425.
- 446 Food Service Management II** **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. Prerequisite: FCR 226, BUS 236.
- 476 Food Service Management III** **2 s.h.**
In-depth study of selected topics using lecture/seminar format and some adjustable scheduling to meet needs of the participants.
- 491 Co-op** **1-4 s.h.**
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- 493 Practicum** **1-4 s.h.**
Supervised work experience in a professional situation related to the student's area of specialization. Prerequisite: approval of advisor.
- 495 Seminar** **2 s.h.**
In-depth consideration of controversial issues in a related field, integration and verification of exit-level competencies.

FIRE SCIENCE (FS)

- 101 Introduction to Fire Protection & 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.
- 103 Basic Fire Protection Training** **1-6 s.h.**
Credit awarded for evidence of successful completion of a certified training program.

- 215 Building Construction (OSH*) 3 s.h.**
- 291 Co-op I (OSH) 1-3 s.h.**
Field placement in municipal, industrial, hospital or similar settings that provide experience in fire protection for pre-service students.
- 293 Internship I (OSH) 1-3 s.h.**
Field placement in municipal, industrial, hospital or similar settings that provide experience in fire protection for pre-service students.
- 302 Field Experience (OSH) 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.
- 322 Inspection & Survey of Facilities (OSH*) 3 s.h.**
- 328 Fire & 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 or juvenile fire setters; Michigan and National arson laws. Prerequisite: FS 101 and 215.
- 350 Hydraulics & 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. Prerequisite: PHY 253 and 254.
- 368 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 105.
- 369 Fire Protection Systems II (OSH) 3 s.h.**
Principles of use and design characteristics of special fire protection systems; halons, CO₂, dry chemical foam, and alarm and detection systems. Prerequisite: MTH 105.
- 391 Co-op II (OSH) 1-3 s.h.**
Advanced semi-professional level assignments in on-the-job application of fire protection principles in municipal, industrial, commercial, institutional setting. Pre-service students only.
- 393 Internship II (OSH) 1-3 s.h.**
Advanced semi-professional level assignments in on-the-job application of fire protection principles in municipal, industrial, commercial, institutional setting. Pre-service students only.

- 428 Fire & 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 328.
- 440 Tactics & 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.
- 451 Hazardous Materials (OSH*) 3 s.h.**
- 490 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.
- 495 Senior Seminar (OSH) 2 s.h.**
 Preparation and presentation of a paper that integrates knowledge gained in the major discipline. Taken by students with senior status as a requirement for graduation.

FRENCH (FRE)

- 101, 102 Elementary Programmed French I, II 4, 4 s.h.**
 Individual work in French involving the use of specially designed texts and tapes. Intended for learning French individually with weekly tutorial guidance. At least one hour of language learning required daily.
- 223, 224 Intermediate Programmed French I, II 4, 4 s.h.**
 Review of grammar essentials. Further development of audio-lingual skills with emphasis on reading and writing. Materials used are selected for their linguistic, literary, and cultural values. Intended for learning French individually with weekly tutorial guidance. At least one hour of language learning required daily. Prerequisite: FRE 102 or two years of secondary school French.
- 300 French Language and Culture for International Learning 3 s.h.**
 An introductory course for students who have no previous background in French; presents basic structures of the French language; proposes to develop minimal language skills, with the emphasis on planning and writing business letters and memos relating to various areas of business and industry; introduces French cultural norms which affect life in French-speaking countries. No prerequisites.

311 French Phonology 4 s.h.

Phonetics, diction, and oral interpretation. Theory and practice of modern French pronunciation, intonation and rhythm. Interpretative readings. Individual laboratory practice. Prerequisite: FRE 224.

322, 323 French Culture & Civilization I, II 4, 4 s.h.

Study of selected aspects of the geographical, historical, social, and cultural backgrounds of France for a better understanding of its civilization. Prerequisite: FRE 224.

331 Oral & Written Composition 4 s.h.

Applied advanced grammar with practice in original composition. Emphasis on developing skills in employing natural, everyday expressions in speaking and writing correct, idiomatic French. Prerequisite: FRE 224.

357 French Literature I 4 s.h.

Selected texts from outstanding authors representing the chief periods of French literature from its beginning to the eighteenth century. Prerequisite: FRE 224.

480 Foreign Study in French-Speaking Countries 4-16 s.h.

Study abroad may be arranged during any calendar term with any approved institute of learning, including the Alliance Francaise, Paris.

GENERAL SCIENCE (GSC)

495 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. See General Science Plan of Study.

GEOGRAPHY (GEO)

301 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)

107 Introduction to Gerontology 3 s.h.

A general overview of the field of aging. The topics include demographic aspects as well as biological, psychological and social aspects of the aging process.

- 210 Physical Education Activities (PED) 2 s.h.**
Prepares students to design, conduct, and evaluate physical education programs for older adults. Emphasis on determining appropriate program content, resources, music selection, and leadership techniques. Students will have numerous opportunities to develop their individual leadership skills.
- 215 Mental Health & Aging 2 s.h.**
Evaluation of mental health needs of elderly individuals in the community and/or institutions; investigation of assessment and diagnostic criteria for common mental health problems; functional psychosis and organic brain syndromes. Emphasis is on practical application of theoretical constructs.
- 219.3 Communication Problems of the Older American 1 s.h.**
The purpose of the workshop is to give participants a working knowledge of communication impairments associated with aging. It is designed for non-communication specialists who work with the elderly and is not directed toward speech pathologists or audiologists.
- 219.4 Family Support Systems 1 s.h.**
This workshop will provide an opportunity to explore a network of support systems in the context of family relationships.
- 230 Issues in Aging 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.
- 242 Nutrition for the Aging (FCR*) 3 s.h.**
- 246 Working with the Impaired Elderly 2 s.h.**
An examination of programs, techniques, and resources that address the needs of older adults with dementia, aphasia, physical limitations or other impairments. The social, psychological, and physical abilities and limitations of each group are explored.
- 252 Retirement Planning 2 s.h.**
Study of the implications of retirement for the older adult; topics covered include: housing, transportation, health and safety, legal affairs, income and meaningful use of leisure time.
- 302 Program Planning for Older Adults (EDU) 3 s.h.**
Focus on the learning potential of older adults; emphasis on designing programs that address the educational needs and interests of older adults in a variety of environments.
- 307 Psychology of Aging (PSY) 3 s.h.**
Overview of psychology of aging; study of personality; adjustments common in process of aging; examination of cognitive and emotional developments as a function of aging.

- 310 Activity Therapy in Gerontology** 3 s.h.
An analysis of concepts, theories and programming related to Activity Therapy. Topics include: humanities, creativity, assessment techniques, resource utilization, leadership styles and motivation.
- 315 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.
- 350 Counseling the Older Adult** 2 s.h.
Study and demonstration of techniques of interviewing, counseling, and working with older adults and their families. Examination of the principles and methods of assessment and intervention skills. Emphasis on a positive approach to the maintenance or improvement of mental health.
- 415 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.
- 425 Public Policy & 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.
- 476, 477 Field Placement, Field Seminar** 4, 2 s.h.
Professionally supervised practical experience with organizations providing services to, or for, older adults. Students meet biweekly with their college instructor to discuss placement progress, resume writing, and job search strategies.
- 485 Gerontology Management** 3 s.h.
Examination of gerontology management techniques. Focus on identifying individual leadership styles, and studying principles of management as they relate to human services.
- 487 Nursing Home Administration I** 3 s.h.
An overview of health concerns in the nursing home. Topics include: Federal and State health regulations; patient care and dietetic standards; and safety codes.
- 488 Nursing Home Administration II** 3 s.h.
Focus on legal issues of nursing home administration, Medicare, Medicaid and insurance requirements, budgeting and accounting.
- 495 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. (This course is to be taken during the senior year).

HISTORY (HIS)

- 101 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.
- 108 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.
- 231 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.
- 245 Medieval & Renaissance Europe 4 s.h.**
A study of the Middle Ages from the Germanic invasions, emphasizing feudalism, chivalry, the Church and Empire, and the Crusades. The Italian Renaissance and Northern Humanism.
- 322 Race, Ethnicity, & Social 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.
- 330 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.
- 333 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.
- 341 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.
- 380 Dynamics of Sex Roles (SOC*) 4 s.h.**
- 419 Special Problems in History 1-3 s.h.**
Study of selected topics of interest in History.

421 Time & Literature (ENG*) 4 s.h.

432 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.

451 Economic & Business History of the United States (BUS/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.

453 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.

463 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.

480 Foreign Study Abroad (HUM) 3 s.h.
Foreign travel study program. Travel to major foreign cities with an emphasis on comparative studies of government, history, and culture of the people.

495 History & 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.

HOSPICE (HSP)

321 Introduction to Hospice Care Concepts 2 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. Note: Hospice 321 is recommended but not required prior to enrollment in subsequent courses, except in HSP 462 and HSP 465.

331 Management of the Bereavement Process 2 s.h.

This course presents a basic foundation for interventions in the management of the bereavement process. Guidelines supported by updated research will provide correct practices that will enable the caregiver to understand and deal with long-standing myths pertaining to bereavement. Suggestions and recommendations will provide assistance to the caregiver who desires to relieve pain in persons who have experienced a significant loss.

348 Psychosocial Components of Hospice Care (PSY) 3 s.h.

Explores the psychosocial aspects of the terminally ill and bereaved across the lifespan; focuses upon the importance of communication skills and psychosocial problems encountered in hospice care; guides the caregiver on how to approach the discussion of death with dying persons and bereaved families and friends of various cultures; addresses stress reduction techniques for caregivers.

350 Spiritual & Ethical Considerations in Hospice Care (RST) 3 s.h.

Presents the ethical principles involved in problem-solving of moral issues for clients, families, and/or care givers; studies dealing with death and dying issues; gives overview of major world religions, identifying their tenets/practices related to meeting the spiritual needs of the terminally ill and their families; offers examples of how interdisciplinary hospice care team can facilitate spiritual comfort in their clients and their families.

353 Comfort & Care for the Hospice Client 3 s.h.

Provides instruction in the physical aspects of therapeutic interventions to relieve the distress of common problems associated with disease process; emphasizes ways to control pain and manage other symptoms associated with dying; provides for practicing selected comfort measures in a simulated laboratory setting.

462 Managing Hospice Services 2 s.h.

Focuses on the general functions of a manager and application of these functions to various hospice models; explains accreditation and licensure of agency services, as well as standards and legal aspects; discusses staffing issues, particularly personnel development and volunteerism. Prerequisite: HSP 321 or department approval.

465 Hospice Field Experience 3 s.h.

Consists of 15 hours of seminars on campus and 90 hours in selected agencies. This experience will include observing and applying principles of palliative care and management in a variety of hospice settings. Prerequisite: HSP 321 or department approval.

475 Emerging Issues in Interdisciplinary Hospice Care 2 s.h.

Discusses current issues and emerging trends in the evolution of hospice care; reviews and analyzes relevant literature and research from various professional journals and publications.

HUMANITIES (HUM)

133	Survey of Christianity (RST*)	3 s.h.
145	Survey of Western Religions (RST*)	3 s.h.
146	Survey of Eastern Religions (RST*)	3 s.h.
155	Inquiry into Values (PHL*/RST)	3 s.h.
201	The Medium & the Message Interdisciplinary introduction to art, history, music, and literature, focusing on their means of communication and potential to express spiritual, humanistic, and aesthetic concepts.	4 s.h.
224	Theology of Ministry (RST*)	2 s.h.
256	The Old Testament I: Torah & Historical Writings (RST*)	3 s.h.
257	The Old Testament II: Prophets, Wisdom & Apocalyptic Writings (RST*)	3 s.h.
258	The New Testament I: The Four Gospels (RST*)	3 s.h.
259	The New Testament II: Acts, Epistles, & Revelations (RST*)	3 s.h.
267	Epistles of St. Paul (RST*)	3 s.h.
305	The Idea of Justice (RST) 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.	4 s.h.
315	Spirituality (RST*)	2 s.h.
321	Aesthetics (PHL*)	3 s.h.
335	Art & Culture of Asia (ART*)	3 s.h.
340	Person & Mission of Christ (RST*)	3 s.h.
361	Pastoral Counseling (PSY/RST*)	2 s.h.
408	Christian Ethics (PHL/RST*)	3 s.h.
410	Conscience & Values (RST*)	3 s.h.
411	Medical Ethics (PHL/RST*)	3 s.h.
414	Life/Death Issues (RST*)	2-4 s.h.
415	Modern Art (ART*)	4 s.h.
422	Christian Awareness (RST*)	3 s.h.
427	Resources in Effective Ministry (RST*)	2 s.h.

- 428 Church Policies and Procedures (RST*) 2 s.h.
- 472 Pastoral Administration (RST*) 3 s.h.
- 480 Foreign Study Abroad (HIS*) 3 s.h.
- 495 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.

JAPANESE STUDIES (JPN)

- 101,102 Beginning Japanese Language and Culture I, II 4, 4 s.h.

Introduction to the rudiments of spoken and written Japanese, including the hiragana and katakana syllabic writing systems, and to the geographical, historical, social and cultural background of Japan from antiquity to the twentieth century. Independent language lab component develops oral/aural comprehension skills.

- 223, 224 Intermediate Japanese Language and Culture I, II 4, 4 s.h.

Continuation of the development of Japanese language skills, including an introduction to Kanji (Chinese characters). Mastery of grammatical and orthographic structure of modern Japanese. Independent language lab component develops oral/aural comprehension skills. Prerequisite: JPN 102.

- 323 Directed Readings in Japanese 4 s.h.

Selected readings of modern Japanese prose, with emphasis on developing translation and critical analysis skills. Continued mastery of Kanji. Prerequisite: JPN 224.

- 331 Japanese Oral and Written Composition 4 s.h.

Advanced course in spoken and written Japanese, with emphasis on practice and original composition in correct, idiomatic Japanese. Continued mastery of Kanji. Prerequisite: JPN 323.

JOURNALISM & PUBLIC RELATIONS (JRN)

- 121 Introduction to Commercial Art (ART*) 4 s.h.

- 132 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.

- 205 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 132 or departmental approval.
- 251 A Survey of Telecommunications (SPH*) 3 s.h.**
- 286 Editorial Writing & 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 132 or departmental approval.
- 313 Photography I (ART) 3 s.h.**
Basic black and white photography; principles of light, lenses and film; processing and darkroom techniques; participation in all phases of photograph production from initial composition to finished print.
- 314 Photography II (ART) 3 s.h.**
An exploration of color photographic processes including slides, Cibachrome printing, color negative development, and color printing; archival and gallery black and white printing; emphasis on visualization and creativity. Prerequisite: JRN 313 or permission of instructor.
- 316 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 132, 286 or departmental approval.
- 351 Television Production Techniques I (SPH*) 3 s.h.**
- 352 Television Production Techniques II (SPH*) 3 s.h.**
- 357 Editing & Copyreading 3 s.h.**
Principles of editing, headline writing, page make-up, use of pictures in newspapers, special sections, magazines. Prerequisite: JRN 132 or departmental approval.
- 371 Scriptwriting, Proposal Writing, & Budgeting for Television (SPH*) 3 s.h.**
- 381 Single Camera Video Production (SPH*) 3 s.h.**
- 401 Foundations of Mass Communication 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.

- 416 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 132, 316, 357 or departmental approval.
- 451 Directing & Producing for Television (SPH*) 3 s.h.**
- 491 Journalism/Public Relations Practicum/Co-op 3-12 s.h.**
 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 132, 286, 357 or departmental approval.

LEGAL ASSISTANT (LAW)

- 100 Legal Assistant Orientation 3 s.h.**
 Introduction to the various roles of the legal assistant with an emphasis upon functions, ethics and skills, legal terminology, the court system.
- 101 Legal Research & 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.
- 121 Legal Research & Writing II 3 s.h.**
 Further development of research and writing skills analyzing a fact situation and following the evolution of a typical lawsuit. Emphasis on Federal law. Prerequisite: LAW 101.
- 201 Legal Interviewing & Investigations 3 s.h.**
 Collection, organization and use of facts, sources of evidence and leads, access to records, evaluation of testimony and physical evidence, interviewing.
- 222 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.
- 235 Real Estate 3 s.h.**
 Interviewing and data collection, title work, mortgage work, taxation, drafting of purchase and sale agreements, closing, liability, insurance.
- 241 Contractual & 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.

- 257 Litigation** **3 s.h.**
 Pre-trial, trial, appeal, and enforcement/compliance procedures for civil and criminal cases, through courts and administrative agencies. Data collection and analysis; calendar control and scheduling; organization and coordination of exhibits; drafting of interrogatories, replies and pleadings.
- 305 Criminal Procedures (CJ*)** **3 s.h.**
- 326 Using Computers in the Law** **3 s.h.**
 Fundamentals of computer-assisted legal research; the use of computers in legal drafting; and law firm utilization of computers for business. Prerequisite: CIS 225 or 238 or MTH 208.
- 345 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.
- 357 Law Office Economics & Management** **3 s.h.**
 Supervision, personnel, types of legal practice, governance, finances, equipment and facilities, timekeeping, billing, administrative reports, document control.
- 358 Taxation I (BUS*)** **3 s.h.**
- 361 Taxation II (BUS*)** **3 s.h.**
- 386 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.
- 405 Constitutional Law (CJ*/PSC)** **3 s.h.**
- 419 Special Problems in Law** **1-3 s.h.**
 Study of selected areas of paralegal practice on a seminar basis.
- 422 Torts: An Overview of Negligence** **3 s.h.**
 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.
- 427 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.

433 Administrative Procedures 3 s.h.

Rules of procedure and evidence for workers' compensation, and social security.

495 Legal Seminar & Practicum/Co-op 4-6 s.h.

In-service training, demonstration of professional legal assistant skills in an employment situation, self-assessment, evaluation of personal and program curriculum, strategy for continuing legal education. Position arranged by student. Permission of instructor required. Prerequisite: completion of 24 s.h. of law classes.

MATHEMATICS (MTH)

100 Developmental Mathematics 3 s.h.

Emphasis on developing computational skills with whole numbers, common and decimal fractions, and pre-algebra. Does not apply toward major or minor. Does not fulfill general education requirements.

104 Introduction to Algebra 3 s.h.

Operations with integers and rational numbers, operations with polynomials, solving first degree equations, applications, relations and functions, graphs of linear functions, systems of linear equations, exponents, factoring, algebraic fractions. Does not satisfy general education requirement; does not apply toward math major or minor.

105 Intermediate Algebra 4 s.h.

Rapid review of signed numbers, natural number exponents, polynomials, factoring, equation solving, and algebraic fractions. Solving inequalities and absolute value sentences, exponents, radicals and complex numbers, second degree equations, graphing, relations and functions, applications. Prerequisite: MTH 104 within the last two years with a grade of C or better, or placement test. Does not apply toward math major or minor.

106 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 105 or equivalent. Does not apply toward math major or minor.

115 Contemporary Mathematics 3 s.h.

This course helps students develop an understanding of and appreciation for the history, techniques and applications of mathematics. It focuses 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.

- 121 Precalculus 4 s.h.**
 Study of functions and their inverses; graphing techniques; properties and graphs of polynomial, exponential, logarithmic and trigonometric functions; conic sections. Prerequisite: two years of algebra and a course in trigonometry. Does not apply toward math major or minor.
- 208 Principles of Computer Science 3 s.h.**
 Overview of computers and introduction to programming in C language. Introduction to algorithms, data types, iteration, subprograms and dimensioned variables. Study of the impact of computers on society. Does not apply toward math major or minor.
- 230 Business Calculus 4 s.h.**
 Techniques of differentiation and integration as they apply to marginal analysis, asset growth, change of cost, profit, and price. Functions serve as models. Prerequisite: MTH 105. Does not apply toward math major or minor.
- 235 Probability & Statistics 4 s.h.**
 Descriptive statistics, averages and variations, elementary probability theory, binomial and normal distributions, estimation and hypothesis testing. Prerequisite: one year of algebra.
- 243 Mathematics Foundations (EDU) 4 s.h.**
 A comprehensive study of the structures, principles and processes of elementary mathematics: arithmetic, geometry, and basic algebra. This is a content course, not a methods course, that is part of the Elementary Teacher's Planned Program. Math majors and minors may substitute another course with advisor's approval. Prerequisite: MTH 104 or equivalent.
- 246 Programming: BASIC 3 s.h.**
 In-depth study of BASIC programming language, with applications in mathematics and the sciences. Introduction to file handling, structured programming, multi-dimension arrays. Prerequisite: MTH 208 or equivalent.
- 247 Programming: FORTRAN 3 s.h.**
 In-depth study of FORTRAN programming language with applications in mathematics and the sciences. Structured programming using subprograms. Nested iterations and matrix processing. Prerequisite: MTH 208 or equivalent.
- 248 Programming: C 3 s.h.**
 Students will design and write programs using the C language. Explorations center on: graphics, memory management, pop-up windows, ergonomics, as well as terminate and stay resident programming. Prerequisite: MTH 208 or departmental approval.
- 249 Interpretive Language: APL & LISP 3 s.h.**
 Study of interpretive language techniques through exploration of two powerful interpretive languages: APL and LISP. Matrix manipulation with APL and list processing with LISP are emphasized. Prerequisite: MTH 247 or 248.

- 251, 252 Calculus with Analytic Geometry I, II** **4, 4 s.h.**
Limits of functions, derivatives and applications, definite integrals, conic sections, exponential and logarithmic functions, transcendental functions, indeterminate forms, improper integrals, Taylor's Formula, infinite series. Prerequisite: MTH 121 or departmental approval.
- 291 Co-op in Operations** **2-3 s.h.**
Cooperative education experience with emphasis on computer operations. Consent of an advisor is required.
- 301 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. Prerequisite: MTH 252, 247 or 248.
- 303 Operating Systems** **3 s.h.**
Study of the organization and operation of computer system software; control of computer resources; command parsing; logical and Physical I/O; algorithms for multiprogramming and resource sharing. Prerequisite: PASCAL or C programming and one additional computer science course with a grade of C or better.
- 305 Computer Organization & Assembly Language** **4 s.h.**
Study of the organization and operation of the digital computer and the techniques of programming in machine and assembler language. Prerequisite: 6 s.h. of computer programming with a grade of C or better.
- 313 Compiler & Language Theory** **3 s.h.**
Study of the operation of language compilers and the underlying theory of computer languages: parsing algorithms, scanning techniques, grammars and code generation. Prerequisite: MTH 303 with a grade of C or better.
- 325 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 235.
- 330 Modern Algebra** **3 s.h.**
Study of groups, rings, integral domains and fields; development of the rational, real and complex number fields. Prerequisite: MTH 252.
- 341 Linear Algebra** **3 s.h.**
Elementary theory of polynomials and vector spaces, systems of linear equations, determinants, linear transformations and matrices. Prerequisite: MTH 252.

351 Calculus with Analytic Geometry III 4 s.h.

Plane curves and polar coordinates, vectors and analytical geometry in three dimensions, vector valued function, partial differentiation, multiple integrals; topics in vector calculus, differential equations. Prerequisite: MTH 252.

391 Co-op in Software 2-3 s.h.

Cooperative education experience with emphasis on computer programming or software engineering. Consent of advisor is required.

451 Introduction to Real Analysis 3 s.h.

Introduction to logic and the study of proof, set theory, relations, functions, and an analysis of the real number system. Prerequisite: MTH 351.

453 Differential Equations 3 s.h.

Relevant techniques of solving first-order differential equations, linear differential equations, and linear systems, basic theories behind various solution techniques to various fields. Prerequisite: MTH 252.

465 Foundations of College Geometry 3 s.h.

The study of points, lines and planes, separations, curves and surfaces, congruence, measures, parallelism and similarity, non-Euclidean geometries. Prerequisite: MTH 252.

485 Seminar: Computers & Society 3 s.h.

Study of positive and negative impacts of computers in society; introduction to automation, robotics, and artificial intelligence, and the implications of each; examination of computer crime and methods to detect and prevent it; ethics and professionalism in computer science. Prerequisite: Senior status and major in computer science.

495 Senior Seminar 2 s.h.

A course designed to give experience in preparing and presenting a scientific paper. Taken by mathematics students with senior status as a requirement for graduation.

MEDICAL TECHNOLOGY (MTE)

201 Introduction to Health Technology (AHM*) 2 s.h.

294 Internship/Field Placement I 1-6 s.h.

Supervised clinical practice in approved medical technology facility.

300 Medical Laboratory Technology 2 s.h.

Introduction to the clinical pathology laboratory incorporating principles and procedures, specimen collection, normal and panic value reporting. Supervised phlebotomy experience.

- 301 Human Clinical Pathology I** 4 s.h.
Principles and procedures in hematology and coagulation for Medical Technology students. Prerequisite: departmental approval.
- 302 Human Clinical Pathology II** 4 s.h.
Principles and procedures in clinical immunology, immunohematology, and urinalysis for medical technology students. Prerequisite: department approval.
- 363 Clinical Chemistry I** 3 s.h.
Principles of quality control, medical statistics, continuous and multi-channel analysis. Procedures for diagnostic testing in carbohydrate, lipid, and protein evaluation in health and disease.
- 365 Clinical Chemistry II** 3 s.h.
Physiological chemistry and procedural analysis of hormones, vitamins, electrolytes, blood gases, body fluids, drugs and toxic substances.
- 393 Clinical Internship** 6 s.h.
Supervised clinical practice in approved laboratory facility for students in the Medical Laboratory Technician program.
- 394 Internship/Field Placement II** 1-6 s.h.
Supervised clinical practice in approved medical technology facility.
- 451 Internship I** 2-10 s.h.
Supervised clinical practice in CAHEA approved medical technology facility. Prerequisite: departmental approval.
- 452 Internship II** 2-10 s.h.
Supervised clinical practice in CAHEA approved medical technology facility. Prerequisite: departmental approval.
- 453 Internship III** 2-10 s.h.
Supervised clinical practice in CAHEA approved medical technology facility. Prerequisite: departmental approval.
- 476 Allied Health Administration (AHM*/RTE)** 2 s.h.
- 478 Allied Health Education (AHM*/RTE)** 2 s.h.
- 495 Senior Seminar (AHM*/RTE)** 2 s.h.
Evaluation of allied health practices and procedures with emphasis on summation and integration for the entry-level practitioner. Required for B.S.M.T. students.

MUSIC (MUS)

- 105, 106, 107 Piano for the Adult** 2 s.h. each
Basic course with emphasis on fundamental keyboard technique and musicianship. Credit not applicable to piano majors.
- 108.3-108.9 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.
- 109 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 signing and speaking voice.
- 110 Voice Class II** 2 s.h.
Continuation of Voice Class I.
- 111, 112 Theory I, II** 4, 4 s.h.
Aural, visual and written approach to musicianship: sight-singing, melodic and harmonic dictation; four-part writing: triads, sevenths, modulation.
- 115, 116 Voice** 2, 2 s.h.
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.
- 121, 122, 221, 222, 321, 322, 421, 422 Piano** 2 s.h. each
Study of keyboard theory; techniques and repertoire designed to meet needs of individual students.
- 124, 125, 224, 225, 324, 325, 424, 425 Organ** 2 s.h. each
Organ technique; application to basic materials; congregational accompaniment; repertoire designed to meet needs of individual students.
- 126, 127, 226, 227, 326, 327, 426, 427 Violin** 2 s.h. each
- 128, 129, 228, 229, 328, 329, 428, 429 Guitar** 2 s.h. each
- 131, 132, 231, 232, 331, 332, 431, 432 Flute** 2 s.h. each
- 136, 137, 236, 237, 336, 337, 436, 437 Saxophone** 2 s.h. each
- 141, 142, 241, 242, 341, 342, 441, 442 Clarinet** 2 s.h. each

- 143, 144, 243, 244, 343, 344, 443, 444 **Viola** **2 s.h. each**
- 151, 152, 251, 252, 351, 352, 451, 452 **Trumpet** **2 s.h. each**
- 156, 157, 256, 257, 356, 357, 456, 457 **Trombone** **2 s.h. each**
- 201 **Creative Art & Music Experience (FCR*)** **4 s.h.**
- 202 **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.
- 211, 212 **Theory III, IV** **4, 4 s.h.**
 Advanced sight singing and dictation; four-part writing; non-harmonic tones, chromatic harmony, modulation, twentieth-century practices.
- 215, 216, 315, 316, 415, 416 **Voice** **2 s.h. each**
 Continuation of 115, 116; more advanced repertoire.
- 309 **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 200.
- 333 **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.
- 334 **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. Prerequisite: 333.
- 353 **Instrumental Techniques** **2 s.h.**
 Group study of the four families of instruments on the orchestra; technical differences, capabilities, peculiarities, range, embouchure.
- 354 **Piano Pedagogy I** **2 s.h.**
 Intensive study of methods and materials in piano teaching as applied to beginning and intermediate students.
- 355 **Piano Pedagogy II** **2 s.h.**
 Continuation of MUS 354 as applied to the advanced student.

- 362.3-362.6 Ensemble: Instrumental Chamber Music** 1 s.h. each
Study and performance of duos, trios, quartets and other combinations; open to all students by audition.
- 372.3-372.9 Orchestra/Band** 2 s.h. each
By audition, rehearsal, membership and performance in the Oakway Symphony.
- 391, 491 Music Management Co-op I, II** 2-4 s.h.
Specialized learning experiences related to music management, under supervision of authorized personnel. Prerequisite: approval of advisor.
- 402 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.
- 403 Form & Analysis** 2 s.h.
Structural elements of musical composition as applied to form, from the simple song forms to the sonata-allegro form; harmonic and structural analysis of representative works.
- 404 Conducting & Performing Techniques** 2 s.h.
Integrated course with emphasis on baton technique, score reading, and arranging. Lecture 1 hour, laboratory 2 hours.
- 405 Choral Techniques I** 1 s.h.
Integrated course in development of choral tone, blend, balance, articulation and appropriate baton techniques.
- 406 Choral Techniques II** 1 s.h.
Continuation of MUS 405 with further emphasis on style and rehearsal procedures.
- 417 Church Music (RST)** 2 s.h.
Course dealing with 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.
- 495 Music Management Seminar** 2 s.h.
A seminar in which students will, through class discussion, presentations, and directed projects, 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)

- 125 Health Problems (FCR) 4 s.h.**
Biological approach to health and disease in man. Study of drugs, smoking, alcohol, venereal disease, sex education, nutrition and heredity. (For non-science majors.)
- 216 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 man. Includes laboratory. Interdisciplinary course designed for General Science and non-science majors.
- 225 Human Nutrition (FCR*) 4 s.h.**
- 233 Pharmacology (EMT*) 3 s.h.**
- 303 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 and non-science majors.
- 315 Physical Aspects of Aging (GER*) 3 s.h.**
- 325 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.)
- 373 Science Foundations I: Chemistry & Life Science (EDU) 4 s.h.**
An introduction, for elementary school teachers, to the basic concepts of the structure of matter: atoms, molecules, chemical changes and reactions with applications to everyday life. Plant and animal life, genetics, food cycle, changes in digestion, and ecosystems. Lecture 3 hours, laboratory 3 hours. Prerequisite: MTH 104 or equivalent. (For non-science majors.) Offered in Term I only.
- 374 Science Foundations II: Astronomy, Earth Science & Physics (EDU) 4 s.h.**
A continuation of basic science concepts for elementary school 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: NSC 373; MTH 104 or equivalent. (For non-science majors.) Offered in Term II only.

- 495 Senior Seminar** **2 s.h.**
Preparation and presentation of a scientific paper. Taken by students with senior status as a requirement for graduation.

NURSING (NUR)

- 110 Nursing Heritage** **1 s.h.**
Introduction to professional nursing through an overview of significant eras, events and persons affecting the historical evolution of nursing from ancient until modern times, particularly as depicted in A/V and dramatic media.

- 111 Current & Future Trends in Nursing** **1 s.h.**
Overview of current and future trends in health care which affect the development and practice of professional nursing. Introduction to the philosophy, organizing framework, and unifying themes of the nursing curriculum.

- 202 Basic Concepts of Nursing** **5 s.h.**
Introduction to the basic concepts underlying nursing practice, including nursing process, major theoretical constructs for use in assessment of client needs, communication skills, the teaching-learning process, and physical assessment skills. Application of concepts in structured health care settings with older adults. Enrollment limited to basic nursing students. Prerequisite: NUR 111; BIO 243, 244; CHM 161; PSY 245. Corequisite: SOC 101.

- 204 Concepts of Professional Nursing** **3 s.h.**
Introduction to philosophy, organizing framework, and unifying themes of nursing curriculum. Overview of past, present, and future events and trends shaping professional nursing practice. Study and application of nursing process and physical appraisal skills. Incorporates a clinical competency challenge examination. Enrollment limited to LPN and RN degree-completion students. Prerequisite: BIO 243, 244; CHM 161; PSY 245. Corequisite or prerequisite: BIO 226, 371; SOC 101.

- 208 Physical Appraisal & History Taking** **1 s.h.**
Application of the health pattern approach to obtain nursing assessments, facilitate nursing diagnosis and plan care. Instruction and supervised practice of basic physical examination. Enrollment limited to graduate students or registered nurses with permission of instructor.

- 212 Application of Nursing Concepts** **8 s.h.**
Application of nursing concepts to adults experiencing acute and chronic alterations in physiological integrity secondary to selected disorders of the gastrointestinal, musculoskeletal, cardiovascular, pulmonary, endocrine and neurosensory systems. Clinical practice in structured acute care settings with adult clients. Prerequisite: NUR 202, SOC 101. Corequisite or prerequisite: BIO 371.

- 326 Nutrition in the Nursing Process** 2 s.h.
Special study of the nutritional requirements in major phases of the life cycle and selected disease processes, the interaction between drugs and nutrients, assessment of the client's nutritional status, and the teaching of nutrition in acute care and community settings. Prerequisite: NUR 202 or 204.
- 333 Pharmacology in the Nursing Process** 2 s.h.
Survey of multiple drug classification emphasizing physiological effects, responsibilities of administration, and monitoring and evaluation of drug therapy, with special emphasis on implications for professional nursing practice. Prerequisite: NUR 212.
- 344 Advanced Nursing Care of Adult Clients** 8 s.h.
Application of nursing process to individual clients and their families experiencing acute and chronic alterations in physiological integrity related to cellular and hormonal regulation, ventilation and perfusion, and fluid and electrolyte dynamics. Clinical practice in structured acute care settings with adults having multi-faceted impairments. Prerequisite: NUR 212; BIO 226. Corequisite: NUR 333.
- 345 Nursing Care of Parents and Children** 8 s.h.
Application of nursing process to childbearing and childrearing families. Clinical practice in structured health care settings with childbearing families and ill children and their families. Prerequisite: NUR 212; BIO 226. Corequisite or prerequisite: NUR 390.
- 350 Operating Room Practicum of Nursing Practice** 2 s.h.
Surgical learning experience that uses the nursing process in all phases of operative care. Emphasis on operating room technology that enhances the student's knowledge of aseptic technique and role as a member of the surgical team. Prerequisite: NUR 344 or permission of instructor.
- 357 Basic EKG Interpretation for Nurses** 2 s.h.
Introduction to interpretation of EKG tracings using a systematic approach and identification of therapeutic interventions used to treat identified arrhythmias. Prerequisite: NUR 344, RN status, or permission of instructor.
- 390 Nursing Research** 2 s.h.
Examination and analysis of the components of the research process as they are used by nurse consumers of nursing research. Emphasis on the use of research, theory and methodology as applicable to clinical practice. Prerequisite: NUR 204, 212. Corequisite: NUR 345.
- 446 Mental Health Nursing** 5 s.h.
Application of nursing process to clients and groups of clients experiencing stressors that affect their mental health and ability to function successfully in the community. Developmental and personality theories and concepts of

humanism are used as framework for teaching the therapeutic use of self. Clinical practice in a variety of mental health settings with clients, groups of clients, and their families. Prerequisite: 300 level nursing courses.

456 Community Health Nursing 5 s.h.

Application of nursing process to the total health needs of individuals, families, and groups in the community. Focus is on environmental and public health concerns affecting the health of clients, and special roles of the nurse in meeting health needs on a community basis. Clinical practice in a variety of health departments and home care settings. Prerequisite: 300 level nursing courses. Corequisite: BIO 361.

457 Health Promotion in the Community 3 s.h.

Application of nursing process to the community as client, with exploration of health promotion needs of a specific community through data collection, assessment and analysis. Student plans, implements and evaluates a community project designed to meet an identified health promotion need. Prerequisite: 300 level nursing courses. Corequisite: BIO 361.

466 Nursing Leadership & Management 5 s.h.

Study of nurse as an administrative patient care provider. Facilitates understanding of the role and functions of the nurse manager and how the baccalaureate nurse uses managerial/leadership concepts and skills in own nursing practice. Clinical practice in a variety of settings. Prerequisite: 300 level nursing courses.

OCCUPATIONAL SAFETY & HEALTH (OSH)

102 Standards & 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.

215 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.

- 291 Co-op I (FS) 1-3 s.h.**
Field placement in municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Pre-service students only.
- 293 Internship I (FS) 1-3 s.h.**
Field placement in municipal, industrial, hospital, or similar settings that provide experience in the area of occupational safety. Pre-service students only.
- 302 Field Experiences (FS) 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.
- 321 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.
- 322 Inspection & 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 215 or consent of instructor.
- 328 Fire & Arson Investigation (FS*) 3 s.h.**
- 331 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.
- 350 Hydraulics & Water Supply (FS*) 3 s.h.**
- 352 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. Prerequisite: CHM 111, BIO 224 or 243 and 244 or NSC 125.
- 368 Fire Protection Systems I (FS*) 3 s.h.**
- 369 Fire Protection Systems II (FS*) 3 s.h.**

391 Co-op 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. Pre-service students only.

393 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. Pre-service students only.

398 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 measure to cope with hazards for their prevention and control. Prerequisite: OSH 352, CHM 111, BIO 224 or 243 and 244 or NSC 125.

428 Fire & Arson Investigative Techniques (FS*) 3 s.h.

430 Employee Occupational Health Maintenance & 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.

440 Tactics & Strategy (FS*) 3 s.h.

451 Hazardous Materials (FS) 3 s.h.
Identification, storage, handling, disposal and products of combustion of hazardous materials, including flammable liquids, explosives, oxidizing and corrosive materials; sources of technical assistance available to aid in making tactical decisions. Prerequisite: CHM 111 or equivalent.

490 Fire Service Management (FS*) 3 s.h.

495 Senior Seminar (FS*) 2 s.h.

PHILOSOPHY (PHL)

101 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.

- 105 Anthropology: 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 especially for students interested in the human sciences and psychology.)
- 155 Inquiry Into Values (HUM/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 especially for those interested in religious studies.)
- 201 Logic 3 s.h.**
 Introduction to the principles of correct reasoning. A study of the basic argument patterns in ordinary discourse: syllogisms; distinguishing premises from conclusions; evaluation of evidence; deduction and induction; focus on relationship between language and logic and the fallacies arising from the ambiguities of grammar and semantics. Prerequisite: PHL 101 or permission of the instructor.
- 221 Person & 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 especially for students interested in history, political science and business.)
- 315 Phenomenology & 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 especially for students interested in art, music and literary criticism.)
- 321 Aesthetics (HUM) 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 especially for students interested in art, music and literary criticism.)
- 331 Philosophy, Technology & Human Concern 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 especially for students interested in science and math.)
- 365 Epistemology: 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 do they know whether that knowledge is true or not. (Recommended especially for students interested in psychology.)

408 Christian Ethics (HUM/RST*) **3 s.h.**
(Recommended especially for students interested in business.)

411 Medical Ethics (HUM/RST*) **3 s.h.**
(Recommended especially for students interested in health care and gerontology.)

415 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 especially for students interested in the liberal arts.)

422 Metaphysics **3 s.h.**
The study of the core issues of reality: the fundamental constituents of existence; the nature of God, truth, goodness and the beautiful from a philosophical perspective; the discussion of some of the solutions to metaphysical problems that have been proposed throughout the course of Western civilization. Prerequisite: any other philosophy course or permission of the instructor.

PHYSICAL EDUCATION (PED)

205, 206 Tennis I, II **1, 1 s.h.**
Instruction provided at all skill levels. Emphasis on techniques, etiquette, equipment, scoring, strategy, and competitive play.

209.3-209.6 Downhill Skiing **1 s.h.**
Winter term only. For the first seven Fridays of the semester the class meets at Mount Brighton. Instruction for all levels of skiing. Class 12 noon to 5 p.m. Equipment is not necessary.

210 Physical Education Activities (GER*) **2 s.h.**

358 Life-Time Activities **1 s.h.**
Features team and individual sports for all ages. Included are volleyball, tennis, softball, football, soccer, badminton, and conditioning.

Note: A number of seasonal workshops will be offered each semester. They are offered in 5-week increments and are worth 1 semester hour each. Their descriptions are as follows:

Aerobics I & II - Features various exercises choreographed to popular music. Emphasis on toning and strengthening muscle groups, cardiovascular and overall conditioning. Daily lectures supplement workouts.

Bowling I & II - Emphasis on development and improvement of skill levels. Instruction includes rules, scoring, equipment, etiquette, techniques, and tournament bowling. Classes held off-campus at Cloverlanes. First orientation is in the gym.

Cross-Country Skiing - Instruction in a leading recreational sport. Students will be acquainted with conditioning, injury prevention, equipment, skills and safety at various skill levels. Meets 5 weeks, winter term only.

Golf - Concentration in eliminating poor habits and playing technique, and improving one's game. Students will learn scoring, handicapping, fundamentals, trouble shots, and strategy.

Jogging - This individualized course is geared toward the development of a safe running program. Areas such as prevention of injury, diet, nutrition, weight control, pulse monitoring, and proper attire will be covered.

Physical Fitness & Conditioning I & II - A multi-faceted course for the promotion of good health. Students develop individualized fitness programs. Areas covered include injury prevention, diet, exercise, nutrition, and weight control. Emphasis is on lifetime work-outs.

PHYSICS (PHY)

253 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. Prerequisite: MTH 105 and 106, or 121, or the equivalent. (Offered Term I.) (Formerly PHY 252)

254 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. Prerequisite: MTH 105 and 106, or 121, or the equivalent. (Offered Term II.) (Formerly PHY 251)

271 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 254 or departmental approval. (Offered Term I.)

351 Modern Physics: Atomic & 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 254 or departmental approval. (Offered Term III.)

451 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 271 or equivalent. (Offered Term II.)

POLISH (POL)

101, 102 Elementary Programmed Polish I, II 4, 4 s.h.

Individual work in Polish involving the use of specially designed texts and tapes. Intended for learning Polish individually with weekly tutorial guidance. At least one hour of language learning required daily.

223, 224 Intermediate Polish I, II 4, 4 s.h.

Review of grammar essentials. Further development of audiolingual skills with emphasis on reading material for its linguistic and literary value and for obtaining insight into some aspects of Polish culture. At least one hour of language learning required daily. Prerequisite: POL 102 or 2 years of secondary school Polish.

322, 323 Polish Culture & Civilization I, II 4, 4 s.h.

Study of significant aspects of geographical, historical, social and cultural backgrounds of Poland for a better understanding of its civilization. Prerequisite: POL 224.

357 Polish Literature I 4 s.h.

Review of texts from outstanding authors representing the chief periods of Polish literature from its beginning to the eighteenth century. Prerequisite: POL 224.

358 Polish Literature II 4 s.h.

Analytic study of major literary trends and representative authors in the nineteenth and twentieth centuries. Prerequisite: POL 224.

480 Foreign Study in Poland 4-16 s.h.

Students elect a program of studies in Poland. Options are open for study during the summer and/or academic year.

POLITICAL SCIENCE (PSC)

101 World Problems (HIS*) 3 s.h.

201 Criminal Justice Organization & Administration (CJ*) 3 s.h.

251 American Government (PAD) 4 s.h.

A 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.

301 International Relations 4 s.h.

Analysis of world politics, sources of foreign policy, dynamics of the existing international system, systematic theorizing about future developments.

- 310 **Introduction to Public Administration (PAD*/CJ)** 4 s.h.
- 321 **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.
- 405 **Constitutional Law (CJ*/LAW)** 3 s.h.
- 451 **State & Local Government (PAD)** 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.
- 463 **Emerging Nations (HIS*)** 3 s.h.
- 491/493 **Public Administration Field Experience (PAD*)** 3-5 s.h.
- 495 **Public Administration Seminar (PAD*)** 2 s.h.

PSYCHOLOGY (PSY)

- 101 **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.
- 245 **Life Span Developmental Psychology (FCR)** 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 101.
- 270 **Child Psychology (FCR)** 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 101.
- 307 **Psychology of Aging (GER*)** 3 s.h.
- 313 **Adolescent Psychology** 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 101.

- 316 Group Dynamics & Discussion Techniques (SPH/SOC) 4 s.h.**
 The study of group interaction and group processes. Includes group discussion exercises for the development of proficiency in communication and group facilitation. Prerequisite: PSY 101.
- 342 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 101 and junior or senior standing.
- 348 Psychosocial Components of Hospice Care (HSP*) 3 s.h.**
- 350 Physiological Psychology 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, gender identity. Normal and abnormal brain functioning. Prerequisite: PSY 101 and BIO 101 or equivalent.
- 361 Pastoral Counseling (HUM/RST*) 2 s.h.**
- 367 Social Psychology (SOC*) 4 s.h.**
- 370,371 Field Placement in Applied Mental Health I, II 4, 4 s.h.**
 This field experience will provide professionally supervised practical experience in mental health intervention and/or intervention evaluation. Opportunity will be provided to utilize interventions covered in the Field Seminar in Applied Mental Health I and II. Students will engage in fifteen hours per week of field experience for two consecutive terms (400 hours minimum). PSY 370 is to be elected in the Fall term, PSY 371 in the Winter term. Prerequisite: PSY 101. Prerequisite or corequisite: PSY 316 and PSY 342. Corequisite: PSY 380 with PSY 370; PSY 381 with PSY 371.
- 380,381 Field Placement Seminar in Applied Mental Health I, II 2, 2 s.h.**
 This seminar will serve as the academic interface of the Field Placement in Applied Mental Health I and II. The seminar will offer coursework in introductory mental health interventions and intervention evaluation, including: listening/crisis intervention skills, group intervention skills, introductory behavioral intervention and program evaluation. Prerequisites: PSY 101. Prerequisite or corequisite: PSY 316 and PSY 342. Corequisite: PSY 370 with PSY 380; PSY 371 with PSY 381.
- 422 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. Prerequisite: PSY 101, junior or senior standing, Psychology major or minor or permission of the instructor.

442 Thought & Mood Disorders 3 s.h.

A study of severe and profound emotional disturbance. Aspects of differential diagnosis, descriptions within classifications, and characteristics of mood and thought disorders; specifically concerning such classifications as affective disorders, schizophrenic disorders, dissociative thought disturbances, and anxiety disorders. Prerequisite: PSY 101 and PSY 342.

483 Introduction to Experimental Psychology 4 s.h.

A critical study of experimental methods, problems, materials, results and conclusions with emphasis on conducting and interpreting psychological research. Each student will conduct a small scale research experiment of their choosing with the approval and assistance of the instructor. Prerequisite: MTH 235.

495 Seminar in Psychology 4 s.h.

The study of theoretical foundations in combination with current research issues which are of prominent importance within the study of psychology. Emphasis is placed on the motivational sources of human behavior. Prerequisite: senior standing.

PUBLIC ADMINISTRATION (PAD)

251 American Government (PSC*) 4 s.h.

310 Introduction to Public Administration (PSC/CJ) 4 s.h.

Governmental structure and administrative organization with special attention to policy formulation, personnel administration, supervision, coordination, administrative control.

419 Special Problems in Public Administration 1-3 s.h.

Pragmatic approach to selected problems of interest which are not normally included in existing courses.

451 State & Local Government (PSC*) 4 s.h.

491/493 Public Administration Field Experience (PSC) 3-5 s.h.

Professionally supervised practical experience in government or other public-related agencies. Position arranged by student with approval of instructor and assistance of the Cooperative Education Department.

495 Public Administration Seminar (PSC) 2 s.h.

Integration of the theory gleaned from the several component disciplines as well as the practical knowledge of the field experience. An evaluation of public administration practices and procedures, emphasis on contemporary problems and solutions. Prerequisite: senior status.

RADIOGRAPHY (RTE)

- 110 Introduction to Radiography** 5 s.h.
Medical terminology, nursing arts, safety, darkroom chemistry and techniques.
- 115 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.
- 150 Radiobiology** 5 s.h.
Structure and function of the human body; special emphasis on skeletal anatomy with integration of topographic anatomy and radiographic appearance.
- 200 Radiographic Positioning** 5 s.h.
Study and demonstration of standard and special radiographic positioning and topographic anatomy.
- 250 Radiologic Physics** 5 s.h.
Electricity, radiation, production of X-rays and theory of ionizing radiation.
- 294 Internship I** 1-6 s.h.
Supervised clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.
- 300 Clinical Practicum** 7 s.h.
Supervised practical experience in radiographic examination with periodic evaluation of radiographs produced.
- Advanced courses in radiologic technology include:
- 375 Allied Health Management (AHM/BUS*)** 3 s.h.
- 394 Internship II** 1-6 s.h.
Supervised clinical practice in approved radiography/nuclear medicine facility. Prerequisite: departmental approval.
- 476 Allied Health Administration (AHM*/MTE)** 2 s.h.
- 478 Allied Health Education (AHM*/MTE)** 2 s.h.
- 495 Senior Seminar (AHM*/MTE)** 2 s.h.

RELIGIOUS STUDIES (RST)

- 133 Survey of Christianity (HUM)** 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.

- 145 Survey of Western Religions (HUM) 3 s.h.**
 Anthropology of Western religions through a study of Judaism, Christianity and Islam, their historical backgrounds, religious beliefs, liturgies, customs and values.
- 146 Survey of Eastern Religions (HUM) 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.
- 155 Inquiry Into Values (PHL*/HUM) 3 s.h.**
- 224 Theology of Ministry (HUM) 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.
- 256 The Old Testament I: Torah & Historical Writings (HUM) 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.
- 257 The Old Testament II: Prophets, Wisdom & Apocalyptic Writings (HUM) 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.
- 258 The New Testament I: The Four Gospels (HUM) 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.
- 259 The New Testament II: Acts, Epistles & Revelation (HUM) 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.
- 267 Epistles of St. Paul (HUM) 3 s.h.**
 Paul of Tarsus, apostle, evangelist, reformer: his life-impact on Christianity to the present time.
- 305 The Idea of Justice (HUM*) 4 s.h.**
- 315 Spirituality (HUM) 2 s.h.**
 Approaches to Christian understandings of the interrelationship of God and His people; various theories of spiritual life as well as insights into the style most suited to one's own personality and life-history as related to the quest for holiness and wholeness.

- 340 Person & Mission of Christ (HUM) 3 s.h.**
A scriptural, historical, and theological investigation into the identity of Jesus of Nazareth against faith proclamations of Him as Son of God, Messiah and Savior.
- 345 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.
- 347 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.
- 349 Christian Worship 2 s.h.**
An overview of the origins, development and cultural aspects of Christian worship rooted in symbols, myths and rituals. Students will be assisted in developing various forms of worship services appropriate to their Christian traditions and their ministries.
- 350 Spiritual & Ethical Considerations in Hospice Care (HSP*) 3 s.h.**
- 353 Marriage & the Family (FCR*/SOC) 4 s.h.**
- 361 Pastoral Counseling (PSY/HUM) 2 s.h.**
A presentation of spiritual-psychological foundations of pastoral counseling; an investigation of skills and techniques for this special type of counseling; an analysis of typical cases encountered by one involved in pastoral ministry.
- 408 Christian Ethics (HUM/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).
- 410 Conscience & Values (HUM) 3 s.h.**
A study of conscience formation and ethical reasoning. Theories are applied to several contemporary moral issues (e.g., church/state, coexistence, marriage, sexuality, nuclear deterrence, capital punishment).
- 411 Medical Ethics (HUM/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.
- 414 Life/Death Issues (HUM) 2-4 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. (Lecture series, 2 s.h.) Prerequisite: junior or senior status.

415 **Philosophy of Religion (PHL*)** 3 s.h.

417 **Church Music (MUS*)** 2 s.h.

422 **Christian Awareness (HUM)** 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 will be examined in the light of ecumenical developments. Prerequisite: junior or senior status.

427 **Resources in Effective Ministry (HUM)** 2 s.h.

Practical dimensions of pastoral ministry; a presentation of varied community, government and church-sponsored resources, agencies and services that can enrich and assist the contemporary Christian minister in responding to the needs of individuals and groups. Students will apply the techniques and resources to the areas where they serve.

428 **Church Policies and Procedures (HUM)** 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.

470 **Catechesis** 3 s.h.

Practical investigation and application of psychotheological foundations of catechetical renewal presented in the light of Vatican II.

472 **Pastoral Administration (HUM)** 3 s.h.

The history, theories, practices, techniques of church-related management; specifically designed for the pastoral minister.

491 **Religious Studies Practicum** 3 s.h.

Directed field work and/or evaluation of life experience within parish, hospital, youth group, hospice, and other off-campus settings. Pastoral Ministry majors and minors will focus on an area where they are or will be exercising their Christian service. Required for Religious Studies majors (B.A. program).

SECURITY & LOSS PREVENTION (CJS)

101 **Introduction to Security** 3 s.h.

Origins and development of Security; the security function; basic defenses including building protection, intrusion and access control, fire protection and emergency planning, internal theft; special security problems and career opportunities.

201 Security Administration & Organization 3 s.h.

Administration and organization of security programs and protective services; planning, education and training for business, commercial, industrial and institutional situations; legal ramifications indigenous to security personnel.

265 Security Law 3 s.h.

Historical development of private security and the law; sources of authority; enforcement of specific laws; detention and arrest; search and seizure; civil liabilities; regulation; licensing and registration.

311 Security Investigations 3 s.h.

This course will enable the student to gain an understanding of security investigations and the relationship which exists within the field. Additionally, the course will address the responsibilities of an investigator and the application of techniques to be successful in the execution of casework.

324 Principles of Loss Prevention 3 s.h.

An examination of the several types of security situations in both private and public institutions; the functional operations which apply to each of them, particularly focusing on loss prevention management, theft, risk control and security surveys.

391 Internship/Co-op 3 s.h.

Participation in advisor approved learning experiences in a security related job situation. Security majors are required to complete two semesters (6 s.h.) in either an internship or cooperative education position.

495 Security Seminar 3 s.h.

Overview of current trends toward professionalization of security personnel and the security industry including legislation, goals and standards; industry sponsored training, education and certification; current issues in security.

SIGN LANGUAGE STUDIES (SLS)

100 Introduction to Sign Language Studies 3 s.h.

A survey of Sign Language and Sign Language systems used by deaf and non-deaf populations. Definition of Sign Language; structure, history, and usage of Sign Language; topics of research interest; discussion of attitudes toward Sign Language and cultural factors.

101, 102 Beginning American Sign Language I, II (SPH) 4, 4 s.h.

Development of basic ASL communication skills with appropriate vocabulary and grammatical structures. Emphasis on communicative functions. Prerequisite or corequisite: SLS 100. Thirty hours of laboratory practicum required for SLS 101, 102.

- 201, 202 Intermediate American Sign Language I, II (SPH) 4, 4 s.h.**
 Review of ASL grammatical essentials and further development of communicative functions at the intermediate level. Prerequisite: SLS 102 or placement. Thirty hours of laboratory practicum required for SLS 201, 202.
- 211 Orientation to Deafness 2 s.h.**
 A survey of clinical and developmental aspects of hearing and deafness. Includes basic audiology, deaf education, and psycho-social implications of hearing loss. Prerequisite: SLS 100.
- 228, 229 Fingerspelling I, II 1, 1 s.h.**
 Concentrated instruction in practice of fingerspelling at increasing levels of complexity. Prerequisite: SLS 102 or placement.
- 231 Deaf Culture 3 s.h.**
 A survey of factors that contribute to defining Deaf persons as a cultural minority. Prerequisite: SLS 211.
- 301 Advanced American Sign Language I 3 s.h.**
 Advanced American Sign Language development with a focus on grammatical and lexical expansion. Communicative functions will emphasize sociocultural aspects of deafness. Prerequisite: SLS 202 or departmental approval.
- 302 Advanced American Sign Language II 3 s.h.**
 Continued advanced ASL development with further emphasis on sociocultural and historical considerations of deaf heritage. Communicative functions of ASL will be practiced. Prerequisite: SLS 301 or departmental approval.
- 362 Sign Language Structure 4 s.h.**
 Analysis of the semiotic (including linguistic) structure of American Sign Language (in particular) and other gestural communication systems. Includes aspects of phonology, syntax, semantics, discourse, psycholinguistics, sociolinguistics, biolinguistics and kinesics. Prerequisite: SLS 202 and ENG 262 or departmental approval.
- 365 Contrastive Text Analysis: ASL & 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 362.
- 428 Simultaneous Communication 3 s.h.**
 Practice and theory. Emphasis on smoothness of expression and appropriate sign selection. Prerequisite: 302 or departmental approval.

- 441 Fundamentals of Interpretation & 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: SLS 365 or departmental approval.
- 445 Basic Simultaneous Interpretation for Interpreters 3 s.h.**
A practical course in the process of interpreting from ASL to English and from English to ASL. Prerequisite: SLS 365 and 441.
- 451 Sign Language Acquisition 3 s.h.**
Study of the acquisition of Sign Languages as second or subsequent languages by deaf and hearing persons. Factors affecting learning: cognitive, environmental, motivational, etc. Prerequisite: SLS 362, SLS 365 recommended.
- 453 Fundamentals of Sign Language Instruction 3 s.h.**
Study of various philosophies and methodologies in instruction of manually coded English and American Sign Language. Discussion and research of teaching materials and various curricula. Prerequisite: SLS 451.
- 461 Voice to Sign: Interpreting Lab 3 s.h.**
Development of skills in voice to Sign interpreting. Audiotapes will be interpreted into ASL which will be videotaped and analyzed with the instructor. Prerequisite: SLS 445, B average (SLS department) and departmental approval.
- 471 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.)
- 475 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 will be presented including: deaf/blind, hospital/medical, religious and community based situations. Prerequisite: SLS 441 and 445, B average (SLS department) and departmental approval.
- 481 Sign to Voice: Interpreting Lab 3 s.h.**
Focus on Sign to voice interpreting. Videotapes and in-class speakers will provide interpreting exercises for the student. Sign to voice techniques will be discussed and put into practice. Prerequisite: SLS 445, B average (SLS department) and departmental approval.

- 493 Field Experience** **1-16 s.h.**
Observation and/or practicum in Sign Language interpretation, instruction, or a preprofessional area. Selected readings and maintenance of daily logs to complement lectures.

SOCIAL SCIENCE (SSC)

- 307 Social Studies Foundations (EDU)** **3 s.h.**
An interdisciplinary course comprising selected topics in 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. Prerequisite: SOC 101, and PSC 251 or GEO 301.
- 495 History & 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.

SOCIAL WORK (SW)

- 230 Introduction to Social Work** **4 s.h.**
Examines social work as a helping profession working with individuals, families, and groups; defines the concepts of social systems, problem-solving, human diversity, and planned change. Focuses on Generalist practice. Establishes the knowledge, skills and values base within the systems-ecological theoretical framework; stresses self-assessment of aptitude for social work; includes a pre-field requirement of 50 hours experience. Prerequisite: SOC 101, PSY 101.
- 235 Practice Methods I** **3 s.h.**
Examines models and theories of communication with emphasis on beginning level engagement skills, trust building, and interviewing techniques appropriate to diverse populations. Focus on models of conflict resolution and assertiveness as empowerment means. Development of data collection, assessment, documentation, and intervention with individuals and families. Use of single study research and other means of professional evaluation. Prerequisite: SOC 101, PSY 101.
- 239 Empathy Listening Skills (SOC)** **1 s.h.**
Instruction and practice in the establishment of rapport with individuals through practical listening skills. Techniques developed in the context of the helping relationship. Prerequisite: PSY 101.

493 Field Experience **1-16 s.h.**

Observation and/or practicum in Sign Language interpretation, instruction, or a preprofessional area. Selected readings and maintenance of daily logs to complement lectures.

SOCIAL SCIENCE (SSC)

307 Social Studies Foundations (EDU) **3 s.h.**

An interdisciplinary course comprising selected topics in 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. Prerequisite: SOC 101, and PSC 251 or GEO 301.

495 History & 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.

SOCIAL WORK (SW)

230 Introduction to Social Work **4 s.h.**

Examines social work as a helping profession working with individuals, families, and groups; defines the concepts of social systems, problem-solving, human diversity, and planned change. Focuses on Generalist practice. Establishes the knowledge, skills and values base within the systems-ecological theoretical framework; stresses self-assessment of aptitude for social work; includes a pre-field requirement of 50 hours experience. Prerequisite: SOC 101, PSY 101.

235 Practice Methods I **3 s.h.**

Examines models and theories of communication with emphasis on beginning level engagement skills, trust building, and interviewing techniques appropriate to diverse populations. Focus on models of conflict resolution and assertiveness as empowerment means. Development of data collection, assessment, documentation, and intervention with individuals and families. Use of single study research and other means of professional evaluation. Prerequisite: SOC 101, PSY 101.

239 Empathy Listening Skills (SOC) **1 s.h.**

Instruction and practice in the establishment of rapport with individuals through practical listening skills. Techniques developed in the context of the helping relationship. Prerequisite: PSY 101.

240 Human Behavior & Social Environment 4 s.h.

Examines theories and models from the interrelated fields of psychology, sociology, anthropology, biology, economics, and political science from which social work draws its basic knowledge, skills, and values related to diverse human populations. Demonstration of relevance and applicability of such knowledge to Generalist beginning level social work practice. Focus on the development of human behavior throughout the life cycle with systems, human diversity and goal directed behavior as integrating elements. Prerequisites: BIO 101, ECN 101, PSC 251, PSY 101, SOC 101.

350 Social Welfare 4 s.h.

Examination of the philosophical and historical perspectives of social welfare services to diverse populations and comparison/contrast with contemporary programming. Examines structure and function of social programming. Focus on identification and knowledge of the recipients of social welfare services. Prerequisite: SW 230.

365 Social Policy 4 s.h.

Exploration of historical and current forces which generate social policies about social problems and the legislation which results from these. Examines framework for social policy analysis and models of policy formulation. Studies the role of social work professionals in the policy making process. Explores impact of specific policy on the vulnerable and diverse populations. Prerequisite: SW 350.

370 Practice Methods II 4 s.h.

Examines the models, processes, and skills of social work interventions appropriate to beginning levels of practice as they apply to individuals, families, and groups in their specific sociocultural contexts. Emphasis on social systems theory and the ecological-life model in individual and multiperson interaction. Use of planned change as a problem-solving process within the helping relationship. Practice in data collection, assessment, documentation, and intervention including the use of action plans with focus on the service network. Includes pre-field requirement of 50 hours experience. Prerequisite: SW 235.

390 Practice Methods III 4 s.h.

Examines the structure of and behavior in organizations including the formal and informal network characteristics of the bureaucratic settings of social agencies. Focus on leadership styles and motivation in relationship to the management system and tools for planned change efforts. Identifies skills needed to survive and ways to use agency resources to provide effective services to clients. Applies the use of collaboration, teamwork, networking and the role of the social worker as a change agent with small and large groups. Prerequisite: SW 370.

480, 490 Field Placement I, II

4, 4 s.h.

Professionally supervised practical experience of social work knowledge, values, and skills in a human services agency; fifteen hours per week in the field for two consecutive terms (400 hours minimum) accompanied by mandatory weekly seminars. Students are directly engaged in the delivery of services to individuals, families, groups, organizations and/or communities. Verification of stated competencies of the program. Prerequisite: SW 370 for 480; SW 390 for 490 and formal admission to the program; corequisite: SW 485 with 480, SW 495 with 490.

485, 495 Field Placement Seminar I, II

2, 2 s.h.

Mandatory weekly seminar to accompany Field Placement I, II. Review of field activities with emphasis on assessment of interpersonal skills by use of videotaping, role-playing, and feedback. Verification of knowledge and skills appropriate to entry-level social work practice and applied to levels of client systems. Demonstration of aptitude for social work. Exploration of ongoing professional development and contribution. Prerequisite: SW 370 for 485; SW 390 for 495 and formal admission to the program; corequisite: SW 480 with 485; SW 490 with 495.

487 Social Work Research

4 s.h.

Examines current research theory and methodology to understand its impact and application in policy formulation, the development of programs and services, needs assessments and program evaluation. Examines the appropriateness and use of statistical information related to minorities. Focus on professional ongoing evaluation and research using single study designs to empirical research methods. Original research is conducted. Prerequisite: SW 390.

SOCIOLOGY (SOC)

101 Introduction to Sociology & 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.

221 Social Problems

4 s.h.

Analysis of major social issues and policies on political/social agendas. Consideration of national and international implications. Focus on problems of classism, racism, sexism, ageism, crime and delinquency, industrial conflict, national and international warfare and political/economic leadership response. Emphasis on problem solving in an increasingly complex social structure.

- 233 Interviewing Techniques (CJ) 3 s.h.**
Principles, types and stages of interviewing; develop observation skills and communication ability using several interviewing techniques.
- 239 Empathy Listening Skills (SW*) 1 s.h.**
- 316 Group Dynamics & Discussion Techniques (PSY*/SPH) 4 s.h.**
- 318 Parenting & Child Management 3 s.h.**
An examination of the contemporary family with focus upon the quality of the parent-child relationship. Modalities are introduced to the student suggesting techniques for resolving family conflict and the preservation of the wholesome family unit.
- 321 Principles of Criminology (CJ*) 3 s.h.**
- 322 Race, Ethnicity, & Social Class in American Life (HIS*) 4 s.h.**
- 323 Juvenile Justice (CJ*) 3 s.h.**
- 341 Chemical Dependency: General Information 1 s.h.**
Review of the research about the scope of the problem; definition of terms and vocabulary; review of different theories of addiction; focus on disease concept of alcoholism.
- 343 Chemical Dependency: Focus on the Individual 1 s.h.**
Identification of a chemically dependent person; stages (progression) and behaviors; obstacles in getting or giving help (denial, rescuing, enabling, games) and resources available (self-help groups, EAPs, out- and in-patient facilities).
- 344 Chemical Dependency: Effects on Family 1 s.h.**
Emerging knowledge and research, effects on children; adult children of alcoholics; characteristics; myths; family roles; repeated patterns. Potential for suicide, depression, domestic violence, incest. Focus on dysfunctional families and adult children.
- 345 Chemical Dependency: Special Skills for Professionals 1 s.h.**
Gathering information using special and specific tools and assessments; focus on rescuing and co-dependence; how to use confrontation; practice in empathy; undoing family patterns and individual behaviors.
- 346 Prevention Aspects of Chemical Dependency 1 s.h.**
Review rites of passage, developmental stages, focus on healthy families; information about school based programs; current prevention activities in state and nationally; and networking. Development of a plan of action.

- 347 Substance Abuse Credentialing** **1 s.h.**
 Criteria for State credentialing levels; content manuals; accelerated method of learning; requirements and assistance through practice; practice for State exam. To prepare participants for level one of State credential.
- 348 Chemical Dependency Resources** **1 s.h.**
 Films and videos on chemical dependency; discussion; lists of resources and referrals; for those who want information to determine which other classes may suit their needs or interests. To provide information to college and community personnel regarding chemical dependency for personal or professional use as a prevention measure.
- 349 Chemical Dependency: Planning and Treatment** **1 s.h.**
 Case illustrations of chemically dependent persons; assessment of problems; development of treatment plan, including correctly stated goals, objectives, activities; evaluation of success and termination plans. To enhance professional's ability in assessing, planning, and treating chemically dependent individuals.
- 350 Chemical Dependency: Special Populations Credentialing** **1 s.h.**
 Emphasis on the special needs, interventions and approaches for diverse populations with substance abuse problems. Focus on women, youth, aged, Black and Hispanic. Content manuals for second level of State Substance Abuse credential.
- 353 Marriage & the Family (FCR*/RST)** **4 s.h.**
- 367 Social Psychology (PSY)** **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. Prerequisite: SOC 101 or PSY 101.
- 380 Dynamics of Sex Roles (HIS)** **4 s.h.**
 An examination of traditional sex roles, the structure of human sexual relationships, the sex-role liberation movements and their impact on American institutions.
- 401 Crime Prevention & Police Community Relations (CJ*)** **3 s.h.**
- 415 Social Gerontology (GER*)** **3 s.h.**
- 418 Narcotics Institute (CJ*)** **3 s.h.**

442 Urban Sociology 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 101.

495 Sociology Seminar 4 s.h.

A specialized seminar for majors intended to link critical areas of theoretical concern to the techniques and debates of current research. Both classical and contemporary social theory will be examined, as well as research methodologies appropriate to sociology. Students will design and complete original research related to major areas of sociological concern. Prerequisites: senior standing and departmental approval.

SPANISH (SPA)

101, 102 Elementary Programmed Spanish I, II 4, 4 s.h.

Individual work in Spanish involving the use of specifically designed texts and tapes. Intended for learning Spanish individually with weekly tutorial guidance. At least one hour of language learning required daily.

223, 224 Intermediate Programmed Spanish I, II 4, 4 s.h.

Review of grammar essentials. Further development of audio-lingual skills with emphasis on reading and writing. Materials used are selected for their linguistic, literary and cultural values. Intended for learning intermediate Spanish individually with weekly tutorial guidance. At least one hour of language learning required daily. Prerequisite: SPA 102 or two years of secondary school Spanish.

300 Spanish Language & Culture for Human Services 3 s.h.

Study of basic structures of the Spanish language with the primary purpose of developing minimal language skills. Students are also introduced to Hispanic cultural norms affecting life in Spanish-speaking countries including the U.S.A.

311 Spanish Phonology 4 s.h.

Phonetics, diction and advanced oral interpretation. Theory and practice of modern Spanish pronunciation, intonation and rhythm. Intensive individual practice. Prerequisite: SPA 224.

322 Spanish Culture & Civilization 4 s.h.

Study of significant aspects of the geographical, historical, social, and cultural backgrounds of Spain for a better understanding of its civilization. Prerequisite: SPA 224.

- 323 Latin American Culture & Civilization** 4 s.h.
 Significant aspects of geography, history, social life and culture of Latin American Countries for better understanding of their civilization. Prerequisite: SPA 224.
- 331 Oral & Written Composition** 4 s.h.
 Applied Advanced grammar with practice in original composition. Emphasis on developing skill in employing natural, everyday expressions in speaking and writing correct, idiomatic Spanish. Prerequisite: SPA 224.
- 357 Spanish Literature I** 4 s.h.
 Study of selected texts from outstanding authors representing the chief periods of Spanish literature from its beginning to the eighteenth century. Prerequisite: SPA 224.
- 358 Spanish Literature II** 4 s.h.
 Study of major literary trends and representative authors in the nineteenth and twentieth centuries. Prerequisite: SPA 224.
- 480 Foreign Study in Spain/Spanish America** 4-16 s.h.
 Students elect a program of study in a Spanish-speaking country or in Spain. Options are open for study during the summer and/or academic year.

SPECIAL EDUCATION (SED)

- 330 The Exceptional Learner in the Classroom (EDU*)** 3 s.h.
- 345 Learning Disabilities** 3 s.h.
 An introduction to the field of learning disabilities. The historical development of the field and theoretical models of learning disabilities. Current definitions of learning disabilities which address the etiological factors and characteristics associated with the condition. Prerequisites: EDU 200 and EDU/SED 330.
- 401 Speech & Language Development & Disorders in Children (SPH)** 3 s.h.
 Focus on language models and language development from birth to pre-adolescence, including various language disorders and methodology for classroom teachers. Some attention to speech problems and remediation techniques: cerebral palsy, cleft palate and autism. Prerequisite: SED 330.
- 409 Practicum in Diagnostic & Prescriptive Techniques** 4 s.h.
 Training in the administration of educational evaluations and the interpretation of the results in written form. Emphasis is on the selection, administration, scoring and interpreting of information and formal tests in oral, written language, reading and mathematics. Understanding of the psychometric properties of standardized tests. Prerequisites: EDU/PSY 330 and SED 345.

451 Elementary Methods of Teaching the Learning Disabled 4 s.h.

Overview and analysis of current practices and research findings related to teaching elementary students. Specific procedures for conducting informal assessments and planning in academic and non-academic areas, including social and interpersonal, study and pre-vocational skills. Emphasis on remediating academic and social skill deficits. Lecture, 3 hours, field experience 1 hour. Prerequisite: SED 345.

455 Secondary Methods of Teaching the Learning Disabled 4 s.h.

Overview and analysis of current practices and research findings related to teaching secondary students with learning and behavior problems. Specific methods for conducting informal assessments and implementing strategies for planning in academic and nonacademic areas, including social and study skills. Administrative placement issues, activities within the resource room and the roles of the regular and special education teaching staff are emphasized. Issues and models of post-secondary transition programs. Lecture 3 hours, field experience 1 hour. Prerequisite: SED 345.

471 Directed Teaching: Elementary Learning Disabilities 6 s.h.

Ten full weeks of student teaching in an elementary/middle school setting with a cooperating teacher and with students who are certified under the category of learning disabilities. Prerequisite: admission to Directed Teaching. Corequisite: SED 495.

475 Directed Teaching: Secondary Learning Disabilities 6 s.h.

Ten full weeks of student teaching in a middle/secondary school setting with a cooperating teacher and with students who are certified under the category of learning disabilities. Prerequisite: admission to Directed Teaching. Corequisite: SED 495.

481 Learning Disabilities Practicum I: Elementary/Middle School 2 s.h.

Supervised practicum of 90 hours of classroom teaching with elementary/middle school students who are certified as learning disabled. Limited to students who already have one or more special education endorsement.

483 Learning Disabilities Practicum II: Elementary/Middle School 2 s.h.

Final supervised practicum of 90 hours of classroom teaching with elementary/middle school students who are certified as learning disabled. Limited to students who already have one or more special education endorsement. Prerequisite: SED 481. Corequisite: SED 495.

485 Learning Disabilities Practicum I: Middle/Secondary School 2 s.h.

Supervised practicum of 90 hours of classroom teaching with middle/secondary school students who are certified as learning disabled. Limited to students who already have one or more special education endorsement.

486 Learning Disabilities Practicum II: Middle/Secondary School 2 s.h.

Final supervised practicum of 90 hours of classroom teaching with middle/secondary school students who are certified as learning disabled. Limited to students who already have one or more special education endorsement. Prerequisite: SED 485. Corequisite: SED 495.

495 Learning Disabilities Seminar 1 s.h.

A culmination of the learning disabilities sequence to be taken with Directed Teaching (SED 471 or 475) or the final practicum (SED 483 or 486). Research of current issues in learning disabilities. Research findings related to teaching behaviors and methods, service delivery models and program interventions will be analyzed. May not substitute for a required course. Prerequisite: admission to directed teaching or final Learning Disabilities practicum.

SPEECH & DRAMA (SPH)

101, 102 Beginning American Sign Language I, II (SLS*) 4, 4 s.h.

105 Speech Communication 3 s.h.

Principles of speech communication applied to a wide range of speaking situations: interpersonal, group and public. Emphasis on preparation, delivery, persuasive techniques, listening and responding to messages. Opportunity to practice speaking skills.

201, 202 Intermediate Sign Language I, II (SLS*) 4, 4 s.h.

251 A Survey of Telecommunications (JRN) 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.

300 Children's Literature & Drama (ENG*/EDU) 4 s.h.

316 Group Dynamics & Discussion Techniques (PSY*/SOC) 4 s.h.

341, 342 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.

351 Television Production Techniques I (JRN) 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.

352 Television Production Techniques II (JRN) 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. Prerequisite: SPH 351 or permission of instructor.

- 371 Scriptwriting, Proposal Writing, & 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: SPH 351 or permission of instructor.
- 381 Single Camera Video Production (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: SPH 351.
- 401 Speech & Language Development & Disorders in Children (SED*) 3 s.h.**
- 415 Film Appreciation 4 s.h.**
 Examination of those aspects of film that qualify it as an art form worthy of critical attention.
- 451 Directing & 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 will actually produce and/or direct a program for broadcast. Prerequisite: SPH 252 and permission of instructor.
- 491 Co-op 3-12 s.h.**

BOARD OF TRUSTEES

James S. Bonadeo, Chairman, Bonadeo Builders
Andrew R. Brodhun, President & Chief Operating Officer, Security Bancorp, Inc. of Southgate
Sister Mary Charlene Endecavage, CSSF, President, Montay College, Chicago, Illinois
Michael A. Gaskin, President, Prab Robots, Inc.
Sister Mary Dennis Glonek, CSSF, Provincial Superior, Presentation Province
E. Daniel Grady, Vice President of Corporate Communications, Michigan Bell Telephone Company
Sister Mary De Sales Herman, CSSF, Vocation Director, Presentation Province
James A. Herrington, Retired President, Lapeer Manufacturing Company
Sister Mary Avila Labiak, CSSF, Treasurer, Presentation Province
Sister Jane Marie Lebiedzinski, CSSF, Administrator, St. Francis Home
Michael McManus, President, Header Products Company
Sister Mary Alexander Mikolajczyk, CSSF, Principal, Ladywood High School; Councilor, Presentation Province
Carl Morath, Director, Cold Heading Company
Msgr. John Nienstedt, Rector, Sacred Heart Major Seminary
Leo A. Obloy, Chairman, Special Drill & Reamer Corporation
Sister Mary Carolyn Ratkowski, CSSF, Director of Novices, Presentation Province
Leslie Rose, Chairman, Fidelity Bank of Michigan, Chairman of the Board
Sister Mary Renetta Rumpz, Executive Vice President, St. Mary Hospital
John H. Sennett, President, Sennett Steel Corporation
Sister Mary Danatha Suchyta, CSSF, Director of Administrative Computer Services, Madonna College; Vicar and Councilor, Presentation Province
Major-General Lucius Theus, President, The US Associates
Sister Mary Francilene Van de Vyver, CSSF, President, Madonna College
Sister Mary Alfonsa Van Overberghe, CSSF, Councilor, Presentation Province
Dr. Richard E. White, Professor Emeritus, University of Toledo
Sister Mary Janice Ziolkowski, CSSF, Councilor and Secretary, Presentation Province

OFFICERS OF ADMINISTRATION

Administrative Council

Sister Mary Francilene Van de Vyver, President; B.A., Madonna College; M.Ed., Ph.D., Wayne State University.
Sister Mary Lauriana Grusczyński, Vice President for Institutional Advancement; B.A., Madonna College; M.S., Ph.D., Fordham University.
Sister Rose Marie Kujawa, Academic Vice President; B.A., Madonna College; M.Ed., Ph.D., Wayne State University.
Leonard A. Wilhelm, Vice President for Finance; B.B.A., University of Michigan; M.B.A., Eastern Michigan University.
Sister Nancy Marie Jamroz, Vice President for Student Life; B.A., Madonna College; M.Ed., Marygrove College, Ph.D., University of Detroit.

Administrative Officers

Louis E. Brohl, III, Director of Admissions & Marketing; B.A., Wayne State University; M.B.A., University of Detroit.
Sister Mary Lydia Młodzianowski, Director of Library Services; B.A., Madonna College; M.L.S., Spalding University.
Sister Mary Danatha Suchyta, Director of Administrative Computer Services; B.A., Madonna College; M.S., Fordham University; Ph.D., Walden University.
Sister Mary Serra Szalaszewicz, Registrar; B.A., Madonna College; M.A.T., University of Detroit.
Chris M. Ziegler, Director of Financial Aid; B.A., Michigan State University; M.A., University of Michigan.

FACULTY

Full-Time

- Sister Edith Marie Agdanowski**, Music; B.Mus.Ed., University of Detroit; M.Mus., University of Notre Dame.
- Sister Mary Jacqueline Anderson**, Communication Arts; B.A., Mundelein College; M.S., Southern Illinois University at Carbondale; Ph.D. candidate, University of Michigan.
- Stuart R. Arends**, Accounting & Finance; B.A., Michigan State University; M.Ed., Marygrove College; Ph.D., Walden University.
- Mary P. Bailey**, Nursing; B.S.N., Georgetown University; M.S.N., The Catholic University of America; M.A., Ph.D., University of Michigan.
- Edward Balian**, Management, Marketing & Economics; B.S., Lawrence Institute of Technology; M.A., Ph.D., Wayne State University.
- Carol Barker**, Nursing; B.S.N., M.S.N., Wayne State University; M.Ed., Columbia University.
- Sister Mary Rachel Bawol**, Director of Center for Personalized Instruction; B.A., Madonna College; M.A., University of Detroit.
- Albert Beasinger**, Accounting & Finance; B.S., M.B.A., University of Detroit; M.S.T., Walsh College; Ph.D. candidate, Wayne State University; Certified Public Accountant.
- Dennis Berrigan**, Sign Language Studies; B.S., Gallaudet College; M.Ed., Western Maryland College; RSC Interpreting Certificate.
- Charlene Berry**, Cataloging Librarian; B.S.Ed., M.A., M.S.L.S., Wayne State University.
- Bruce Bett**, Librarian; B.F.A., Wayne State University; M.S.L.S., Adrian College.
- Michele Bietler**, Nursing; B.S.N., Mercy College; M.S.N., Wayne State University.
- Dennis Bozyk**, History; B.A., M.A., University of Michigan; Ph.D. candidate, Michigan State University.
- Christine Brant**, Director of Cooperative Education/Placement; B.S., Western Michigan University; M.A., Oakland University.
- Timothy Brennan**, Management, Marketing & Economics; Ph.B., University of Detroit; M.A., Ed.S., Wayne State University.
- Kimberly Campbell-Voytal**, Nursing; B.S., M.S.N., Wayne State University.
- Patricia Carlson**, Nursing; B.S.N., M.A., University of Michigan.
- Gerald Charbonneau**, Social Work; B.A., Portland State College; M.S.W., Wayne State University; Member of Academy of Certified Social Workers.
- Marjorie Checkoway**, Education & Psychology; A.B., Simmons College; M.S., University of Pennsylvania; Ph.D., University of Michigan.
- James Copi**, Biology; B.S., Michigan State University; M.S., Ph.D., Wayne State University.
- Jennifer Côté**, Legal Assistant; B.G.S., University of Michigan; J.D., Detroit College of Law.
- Cheryl Dottinga**, Nursing; B.S.N., M.S.N., University of Michigan.
- Judy K. Dunham**, Education & Psychology; B.S., Evangel College; M.S., University of Nebraska-Omaha; Ph.D., Purdue University.
- Sister Mary Cecilia Eagen**, Nursing & Hospice Education; B.S., College of Mt. St. Joseph; B.S.N., M.S.N., Catholic University of America; Ph.D., University of Michigan.
- Alan Eichman**, Criminal Justice; B.S., Madonna College; M.A., M.C.S., University of Detroit; Ph.D., Wayne State University.
- Miriam Fabien**, Communication Arts; B.A., Marian College; M.A., John Carroll University; Ph.D., University of Michigan.
- Sister Mary Angeline Filipiak**, Art; B.A., Siena Heights College; M.F.A., Catholic University of America; Ph.D., University of Michigan.
- Gary Fischer**, Management, Marketing & Economics; B.A., M.A., John Carroll University.
- Marianne Seemann Glazek**, Gerontology; B.A., Mercy College; M.A., University of Detroit; Ph.D., Wayne State University; Specialist in Aging Certificate, University of Michigan.
- Ralph F. Glenn**, Art; A.B., M.A., University of Michigan; A.M., Ph.D. candidate, Harvard University.
- Judith Ann Grant**, Nursing; B.S.N., Madonna College; M.S.N., Wayne State University.
- Marilyn Harton**, Nursing & Hospice Education; B.S.N., Michigan State University; M.S.N., Ohio State University.
- William E. Herman**, Education & Psychology; B.S., Michigan State University; M.A., M.A., Eastern Michigan University; Ph.D., University of Michigan.
- Sister Frances Gabrielle Hess**, I.H.M., Family & Consumer Resources/Dietetics; B.S., Marygrove College; M.S., Michigan State University; Registered Dietitian.
- Julienne Hoff**, Dean of Nursing & Health; B.S.N., Mercy College; M.Ed., Columbia University; Ph.D., University of Michigan.
- Randal L. Hoyer**, History, Dean of Social Sciences; B.A., Marquette University; M.A., Ph.D., Michigan State University.
- Mary M. Hunt**, Allied Health & Medical Technology; B.A., Mercy College; M.Ed., Marygrove College; Ed.D. candidate, Wayne State University.
- Lorraine I. Jakubielski**, Education & Psychology; B.A., University of Michigan; M.A., Wayne State University; Ph.D., Michigan State University.

Afif Jawad, Physics; B.S., M.S., Wayne State University.
Barbara Kobe, Computer Information Systems; B.S., Oakland University; M.B.A., Wayne State University.
Nancy F. Kriegler, Nursing; B.S.N., Case Western Reserve University; M.S.N., Specialist in Aging Certificate, University of Michigan.
Maria Surma Kuhn, Chemistry; B.S., Ph.D. candidate, Wayne State University.
Bess Kypros, Family & Consumer Resources/Child Development; B.S.Ed., M.Ed., Ed.D., Wayne State University.
Bernard F. Landuyt, Management, Marketing & Economics; B.Ed., Western Illinois University; M.A., Ph.D., State University of Iowa; M.A., Columbia University; L.L.D. Honorary, University of Detroit.
Dwight Lang, Sociology; B.A., M.A., California State University; Ph.D., University of Oregon.
Leon Levitt, Management, Marketing & Economics; B.A., M.A., New York University; M.A., Ed.D., University of Southern California.
Miriam A. Long, Mathematics; B.S., Marygrove College; M.A., University of Michigan.
B. Diane Louvar, Computer Information Systems; B.A., Mount Mercy College; M.A., Ph.D. candidate, Wayne State University.
James Luke, Management, Marketing & Economics; B.A., B.S., M.B.A., Wright State University; Ph.D. candidate, Wayne State University.
Sister Mary Martina Mastey, Director of Learning Center; B.A., Madonna College; M.A., Ph.D., Fordham University.
Marilyn McConnell, Nursing; B.S.N., University of Michigan; M.S.N., Wayne State University; Maternity Nursing Certification.
Eileen McMahon, Nursing & Hospice Education; B.S.N., M.S., University of Michigan; Adult Nurse Practitioner Certification.
William McMillan, Computer Information Systems; B.S., M.S.A., Madonna College.
Michael M. Meldrum, Sign Language Studies; B.S., Eastern Michigan University; M.A., Gallaudet College.
Peter J. Moloney, Mathematics; Litt.B., Xavier University; Ph.L., Loyola University; M.A., University of Detroit.
Roland A. Montambeau, Education & Psychology; B.A., M.A., Eastern Michigan University.
Joycelyn Montney, Nursing; B.S.N., Case Western Reserve University; M.S.N., University of Michigan.
Sister John Francis Moore, Physics; B.A., B.S.Ed., Mary Manse College; M.S., University of Notre Dame.
Loretta Moore, Nursing; B.S.N.Ed., Duquesne University; M.S.N., Specialist in Aging Certificate, University of Michigan.
H. David Murphy, Reference & Serials Librarian; B.A., University of Ulster, Ireland (equivalent to M.L.S.).
Jessie M. Namikas, Education & Psychology; B.A., Goucher College; M.A., Ph.D., Wayne State University.
Kathleen Needham, Gerontology; B.A., Olivet College; M.A., Michigan State University; Specialist in Aging Certificate, University of Michigan.
Charlotte Neuhauser, Dean of Business & Computer Systems; B.A., DePauw University; M.Ed., Ph.D., Wayne State University.
Stanley Ngeyi, Chemistry; B.S., University of Yaounde'; M.S., Ph.D., University of Michigan.
Ernest Nolan, Dean of Graduate Studies & Humanities; B.A., Wayne State University; M.A., Ph.D., University of Notre Dame.
Kathleen O'Dowd, Communication Arts; B.A., University of Michigan; M.A., Ph.D., Michigan State University.
Rita Paniccia, Reference Librarian; B.A., M.S.L.S., Wayne State University.
Linette Popoff-Parks, Music; B.Mus., Marygrove College; M.A., M.A., Eastern Michigan University.
Leon W. Pratznicki, Director of Continuing Education; Management, Marketing & Economics; B.S., M.A., University of Detroit; D.Min., Graduate Theological Foundation.
Barbara A. Quinn, Education & Psychology; B.A., University of Missouri; M.A., Ph.D., Wayne State University.
Irvin Rabideau, Assistant Library Director; B.S., Eastern Michigan University; M.A., M.S., Wayne State University.
Robert Rann, Foreign Languages; B.A., M.A., Oakland University; Ph.D., University of Michigan.
John Redmon, Music; B.A., M.A., California State University; D.Min., Graduate Theological Foundation.
James Reilly, Communication Arts; B.A., University of Michigan; M.B.A., Michigan State University; M.A., University of Detroit; Ph.D., University of Wisconsin.
Kathleen Richard, Family & Consumer Resources/Retail Merchandising; B.S., Michigan State University; M.A., Central Michigan University.
Karen Ross, Gerontology; B.S., Western Michigan University; M.A., University of Michigan; Ed.D., Wayne State University; Specialist in Aging Certificate, University of Michigan.
Sister Mary Martinez Rozek, Foreign Languages; A.B., Madonna College; M.Ed., St. Mary College.
Lawrence Rudnicki, Communication Arts; B.A., LaSalle University; M.A., University of Michigan.

Kenneth Rust, Sign Language Studies; B.S., Eastern Michigan University; M.A., Oakland University; Comprehensive Skills Certificate (CSC), Registry of Interpreters for the Deaf; Comprehensive Permanent Certificate, Sign Instructors Guidance Network.

Reverend John A. Sajdak, Religious Studies & Philosophy; B.A., Marist College; M.Th., Western School of Theology; S.T.B., S.T.L. Gregorianum, Rome.

Richard Sax, Communication Arts; B.A., Haverford College; M.A., Ph.D. candidate, University of Michigan.

Paul Sbraccia, Computer Science; B.S., Madonna College; M.Ed., Eastern Michigan University.

Florence F. Schaldenbrand, Dean of Science & Technology; B.A., Madonna College; M.Ed., Ph.D. candidate, Wayne State University.

Joy Schermer, Nursing; B.S.N., M.Ed., Ph.D., Wayne State University; M.S.N., Madonna College.

Peggy Holliday Shinkel, Nursing; B.S.N., University of Michigan; M.S., Purdue University; M.S.N., Wayne State University.

Ellen Oliver Smith, Biology; B.S., Ph.D., Louisiana State University.

Marilee A. Smith, Nursing; B.S.N., University of Omaha; M.S.N., Wayne State University.

Sister M. Ann Stamm, Religious Studies & Philosophy; B.A., Madonna College; M.A., M.A., University of Detroit; D.Min., Graduate Theological Foundation.

Raymond Summers, Physical Education; Director of Athletics; B.S., M.A., Eastern Michigan University.

Dionne Thornberry, Social Work; B.S., M.Ed., M.S.W., Ed.D., Wayne State University; Member of Academy of Certified Social Workers.

Patricia A. Vint, Director of Health Instruction Center; B.A., University of Detroit; M.A.L.S., University of Michigan; M.A.E.L., Eastern Michigan University; Ed.D., University of Sarasota; Permanent Certificate in Library Science, Wayne State University.

Sandra Wahtera, Nursing; B.S.N., M.S., Ph.D., University of Michigan.

Mary Wawrzynski, Nursing; Director of Center for Research; B.S.N., M.S.N., Ph.D., Wayne State University.

Teresa A. Wehrwein, Nursing & Emergency Medical Technology; B.S.N., Michigan State University; M.S.N., Ph.D., Wayne State University.

Sister Kathleen Marie Wlodarczak, Mathematics; B.A., Madonna College; M.A., Wayne State University.

Delores Sell Wurst, Nursing; B.S.N., M.S.N., Wayne State University.

Adjunct Faculty

Bob Abdrabboh, Marketing, Management & Economics; B.S., IE College of Chicago; M.A., University of Detroit; Ph.D., Howard University.

Nabil Al-Mahmoud, Biology; D.V.M., Aristotelios Thessaloniki (Greece); Ph.D., Wayne State University.

Robert Andrews, Fire Science; B.S., South Dakota School of Mines & Technology.

Anthony Aquino, Mathematics; B.S., Eastern Michigan University; M.A., Western Michigan University; Ed.D., Wayne State University.

Robert Arndt, Management, Marketing & Economics; B.B.A., Western Michigan University; M.B.A., Eastern Michigan University.

Dorothea M. Bach, Education & Psychology; B.A., M.A., University of Michigan.

Albert Bailey, History; A.B., University of Notre Dame; M.A., Fordham University; Ph.D., Georgetown University.

James Balmer, History; B.A., M.A., Ph.D. candidate, Wayne State University.

Anthony Balogh, Art; B.S., M.A., Central Michigan University.

Patricia Barczak, Mathematics; B.A., Madonna College; M.A., Eastern Michigan University.

Carolyn Bell, Communication Arts; B.A., University of Michigan-Dearborn; M.A., Eastern Michigan University.

Therese Black, Sign Language Studies; A.B.Ed., M.A., University of Michigan.

Donald F. Blouin, Computer Information Systems; B.S., Roger Williams College; M.B.A., Babson College; C.D.P., Institute for Certification of Computer Professionals.

William Borglin, Computer Information Systems; B.S., Ohio State; M.A., Central Michigan University.

Victor Boulanger, Fire Science; B.S., California Coast University.

Carole A. Bowker, Education & Psychology; B.A., Youngstown State University; Ph.D., University of Michigan.

Lynn Broniak, Computer Information Systems; B.B.A., University of Michigan; M.B.A., Indiana University.

Joseph I. Brown, Management, Marketing & Economics; B.A., University of Nebraska; M.A., Goddard College; D.Min., Graduate Theological Foundation.

Steven Brunl, Computer Information Systems; B.S., Marquette University; M.B.A., University of Michigan. Certified Public Accountant.

Kathleen Burns-Watson, Biology; B.S.M.T., Eastern Michigan University; B.S.N., Madonna College; M.P.H., University of Michigan.

David Bydlowski, Natural Science; B.S., M.S., Eastern Michigan University; Ed.S., Wayne State University.

Teresa Chase, Family & Consumer Resources; B.S., Concord College; M.S., Eastern Michigan University.

Marjorie Chellstorp, Art; B.A., Clarke College; M.F.A., State University of Iowa.

Margaret A. Chmielewski, Education & Psychology; B.A., M.A., Wayne State University.

Robert Clark, Management, Marketing & Economics; B.A., Michigan State University; M.B.A., University of Detroit.

Thomas Coseo, Management, Marketing & Economics; B.B.A., St. Bonaventure University; M.B.A., University of Detroit.

Elmer Cote, Management, Marketing & Economics; B.B.A., Eastern Michigan University; M.B.A., University of Detroit.

Kathleen Cross, Nursing; B.S.N., M.S.N., Wayne State University.

Susan Czapski, Family & Consumer Resources; B.A., Marygrove College; M.Ed., Wayne State University, Registered Dietitian.

Ronald Davenport, Occupational Safety & Health; B.S., Michigan State University; M.S. Wayne State University.

Michael Dennisuk, Social Work; B.S., Eastern Michigan University; M.S.W., University of Michigan.

Douglas M. Dent, History; B.A., Michigan State University; M.A., Eastern Michigan University.

Charles Derry, Journalism; B.A., University of Detroit; M.A., candidate, Wayne State University.

Richard J. Dimanin, Legal Assistant; B.A., Michigan State University; J.D., University of Detroit.

Honorable Patrick Duggan, Legal Assistant; B.S., Xavier University; L.L.B., University of Detroit.

James Duprey, Management, Marketing & Economics; B.B.A., M.B.A., University of Michigan; M.S.B.A., University of Southern California.

William D. Farmer, Sociology; B.A., M.A., University of Detroit; Special Education Certification, Eastern Michigan University; Licensed School Psychologist, University of Detroit; Certified Neuropsychological Examiner, University of Michigan.

Sandra L. Frayer, Education & Psychology; B.A., Madonna College; M.A., Wayne State University.

Ann Byrne Fridrich, Family & Consumer Resources/Community Nutrition; B.S., Notre Dame University; M.S., Case Western Reserve University; Ph.D., University of Michigan; Registered Dietitian.

Elizabeth J. Gaines, Education & Psychology; B.S., University of Michigan; M.A., Eastern Michigan University.

Darrell Garth, Public Administration; B.A., Wayne State University; M.A., University of Detroit.

Carol Gerlach, Mathematics; B.A., Marygrove College; M.Ed., Wayne State University.

Thomas Ghena, Sociology; B.S., Eastern Michigan University; M.S.W., University of Michigan.

Sharon Guillett, Nursing; B.S.N., M.S.N., Madonna College, Adult Nurse Practitioner Certification.

Kathleen Guntzviller, Communication Arts; B.A., M.A., Wayne State University.

Neil Haldane, Journalism & Public Relations; B.A., M.A., Michigan State University.

Leo Hardwick, Management, Marketing & Economics; A.B., Tufts University; M.B.A., Boston University.

Bruce Harkness, Communication Arts; B.F.A., Center for Creative Studies; M.F.A., Wayne State University.

Mary Jane Hatt, Education & Psychology; B.S., Michigan State University; M.Ed., Ed.D., University of Houston.

Joel Hearshen, History and Social Sciences; B.S., M.Ed., Wayne State University.

Anita M. Herman, Gerontology; B.A., M.Ed., Wayne State University; B.A., Madonna College; Specialist in Aging Certificate, Ph.D. candidate, University of Michigan.

Edward Hill, Communication Arts; B.A., Adrian College; M.A., Eastern Michigan University, D.A., University of Michigan.

Carol Hogan, Economics; B.S., Michigan State; M.A., Eastern Michigan University.

Linda M. Hoyer, Communication Arts; B.A., St. Xavier College; B.A., Madonna College; M.A., Michigan State University.

Robert Ingram, Accounting & Finance; University of Buffalo; M.B.A., University of Detroit.

Denise Jacob, Nursing; B.S.N., University of Michigan; M.S.N., Wayne State University.

Susan Johnson, Family & Consumer Resources/Food Service Management; B.S., Western Michigan University; M.B.A., University of Detroit, Registered Dietitian.

Donna Kallie, Music; B.S., M.A., Eastern Michigan University.

James Karagon, History; B.A., M.A., Western Michigan University.

Kevin Keenan, Education & Psychology; B.A., University of Maryland; M.S., Ph.D., University of Kentucky.

Michael Kerr, Management, Marketing & Economics; B.S., M.B.A., University of Detroit.

Pourandokht Kiani, Education & Psychology; B.S.c.d., Pahlavi University; M.Ed., Ph.D., Wayne State University.

Norman Kleiner, Art; B.F.A., Center for Creative Studies; M.A., Wayne State University.

Robert Kliber, Management, Marketing & Economics; B.A., Michigan State University; M.B.A., University of Detroit.

G. Michael Koch, Management, Marketing & Economics; B.A., M.B.A., Michigan State University.
 Charles Kotulski, Chemistry; B.S., Michigan State University; M.Ed., M.S., Eastern Michigan University.
 Gerald Kustra, Accounting & Finance; B.S., M.B.A., University of Detroit, Certified Public Accountant.
 Lawrence Kustra, Management, Marketing & Economics; B.S., J.D., University of Detroit.
 James Lang, Communication Arts; B.A., M.A., Eastern Michigan University.
 Paul LaRose, Religious Studies; B.A., University of Detroit; M.A., New York University.
 Mark Lavetter, Computer Information Systems; B.S., M.A., Wayne State University.
 Patricia A. Lewis, Mathematics; B.S., M.A., University of Detroit.
 Gary Lorenz, Management, Marketing & Economics; B.S., M.B.A., St. Cloud State University; Ph.D., University of Minnesota.
 Reverend Robert J. MacCulley, Religious Studies; Diaconal Studies Sacred Heart Seminary; B.A., Candidius College; M.A., University of Detroit.
 David Malicke, Emergency Medical Technology; B.S., Michigan State University; D.O., Kansas City College of Osteopathic Medicine.
 Rho Marchand, Criminal Justice; B.A., University of Western Ontario; M.A., University of Notre Dame; J.D., Detroit College of Law.
 Karen Marold, Nursing; B.S.N., University of Iowa; M.S.N., Wayne State University.
 Reverend Kenneth McKenna, Religious Studies; B.A., State University of New York; M.Div., St. Michael's College.
 George Miller, Criminal Justice; Ph.B., University of Detroit; M.A., University of Notre Dame.
 Francis Mioni, Accounting & Finance; B.S., Ferris State College; M.A., Central Michigan University; Certified Internal Auditor.
 Melinda Montilla, Sociology; B.A., University of San Carlos; M.A., University of the Philippines; M.A., Ph.D., Utah State University.
 Thomas Morgan, Biology; B.S., M.S., Eastern Michigan University; Ed.S., Wayne State University.
 Jayne Morris-Crowther, History; B.A., George Washington University; M.A., University of Connecticut; M.A., University of Houston.
 Joanne Napiewocki, Nursing; B.S.N., M.S.N., J.D., Wayne State University.
 Mary Nebel, Chemistry; B.S., Marygrove College; M.S., Ph.D., Wayne State University.
 Joyce Nielands, Mathematics; B.S., M.Ed., Marygrove College.
 Thaddeus Nowak, Management, Marketing & Economics; B.S., Wayne State University; M.B.A., University of Michigan; Certified Public Accountant.
 Karen L. Obsniuk, Education & Psychology; B.A., M.A., Ph.D., Wayne State University.
 Mary Oriold-Dereski, Biology; B.S., Oakland University; Ph.D., Wayne State University.
 Marjorie R. Patton, Education & Psychology; B.S., M.Ed., Wayne State University; M.A., Marygrove College; Ed.D., Western Michigan University.
 Helene Politzer, Chemistry; B.S., City College of New York; M.S., Wayne State University.
 Robert Riley, Sociology; B.A., Detroit Institute of Technology; M.S.W., Wayne State University; Member of Academy of Certified Social Workers.
 Norbert Schiller, Occupational Safety & Health; B.S., University of Michigan.
 Honorable Gene N. Schnelz, Legal Assistant; B.A., Alma College; L.L.B., J.D., Detroit College of Law.
 Peter Schwartz, Management, Marketing & Economics; B.A., M.A., Wayne State University.
 Jane Sciba, Communication Arts; B.A., Michigan State University; M.A., Eastern Michigan University.
 Barbara Jean Scott, Social Work; B.S.W., Madonna College; M.S.W., Wayne State University.
 Douglas Semivan, Art; B.A., Olivet College; M.F.A., Cranbrook Academy of Art.
 Reverend George Shalhoub, Religious Studies; M.T.S., St. John's Provincial Seminary; D.Min., Graduate Theological Foundation.
 Marlene Sloan, Computer Information Systems; B.A., Clarke College; M.B.A., Rosary College.
 Gary Smith, Computer Information Systems; B.A., Queen's University; B.Comm., University of Windsor; M.S.A., Madonna College.
 Robert Smith, Criminal Justice; B.A., Mercy College; M.A., University of Detroit.
 Judy M. Sobczak, Education & Psychology; B.Educ., Ph.D., University of Toledo.
 Reginald Sobczak, Management, Marketing & Economics; B.B.A., University of Detroit; M.A., Central Michigan University.
 Leon Spence, Legal Assistant; B.A., University of Akron; M.A., J.D., Wayne State University.
 Barbara Lee Temporelli, Chemistry; B.S., Wayne State University; M.S., University of Michigan.
 Jane Thomas, Journalism; B.A., University of Iowa; M.S., University of Illinois.
 George Toth, Commercial Art; B.S., University of Cincinnati.
 Mary Urisko, Legal Assistant; B.S., Michigan State University; J.D., University of Detroit.
 William Vanderwill, Social Work/Sociology; B.S.W., Wayne State University; M.S.W., University of Michigan; Member of Academy of Certified Social Workers.
 James Walling, Management, Marketing & Economics; B.S., M.B.A., University of Detroit.
 James Wendt, Biology; B.S., M.S., Eastern Michigan University; M.T. (A.S.C.P.), Registered Medical Technologist.

Robert Wesolowski, Communication Arts; B.A., Ball State University; M.A., Wayne State University; Ph.D., University of Michigan.
Norah Williams, Management, Marketing & Economics; B.S., M.Ed., Wayne State University.
Marquerite Wolff, Mathematics; B.S., M.Ed., Marygrove College.
Ester M. Yager, Management, Marketing & Economics; B.A., Marygrove College; M.A., Wayne State University.
Mitchell Zalewski, Computer Information Systems; B.A., University of Detroit; M.A., Central Michigan University.
Paulette Zizzo, Mathematics; B.S., M.S.Ed., Youngstown State University.
Edward Zoski, Sociology; B.A., University of Maryland; M.A., Catholic University of America.

ACADEMIC & INSTITUTIONAL SUPPORT STAFF

Full-time

Donna Berry, Associate Director of Administrative Computer Services/Director of Institutional Research; B.S., M.S.A., Madonna College.
Sister Alicia Bomya, S.C., Assistant to the Registrar; B.Ed., College of Mt. St. Joseph; M.Ed., Xavier University.
Suzanne Boyd, TV Facilities Coordinator; B.A., Michigan State University.
Helen Brazzil, Assistant Residence Hall Director.
Beverly Bydlowski, Coordinator of Academic Advising & Experiential Learning; B.S., Eastern Michigan University.
Judith Chiodo, Manager of Office Services; B.A., University of Detroit.
Nancy G. Cross, Teacher Certification Specialist; B.A., University of Utah; B.A., M.A., Wayne State University.
Patricia Derry, Director of Media Production Services; B.A., Madonna College.
Peggy Finnigan, Manager of Student Billing; B.S., Madonna College.
Patricia Gawlik, Publicity Coordinator; B.A., Madonna College.
Eleanor Geisler, Assistant Director of Academic Computer Services; B.S., Eastern Michigan University.
Kimberly Gyuran, Director of Student Activities; B.S., Central Michigan University.
Karen Huston, Administrative Assistant to the President; B.A., M.A., University of South Florida.
Douglas P. Julius, Administrative Assistant to the Academic Vice President; A.B., Cornell University; A.B.Ed., M.A., University of Michigan.
Karen Kierpaul, Director of Personnel Services; B.A., M.B.A., Wayne State University.
Sherry Klisz, Tutorial Coordinator/Academic Counselor; B.A., University of Detroit; M.Ed., University of Michigan.
Joan Knudsen, Financial Aid Counselor.
Ingrid Kord Kroeger, Job Coordinator for Cooperative Education & Placement; B.S., M.A., Eastern Michigan University.
Sandra Le Blanc, Accountant; B.S., Madonna College.
Karen Lindberg, Admissions Representative; B.S., Madonna College.
Allen Luedtke, Coordinator of Business/Education Partnerships; B.B.Ed., Wisconsin State University; M.A., Eastern Michigan University.
Sister Agnes M. Molitoris, Technical Assistant, Registrar; B.S., Madonna College.
Andrea Nodge, Director of Public Relations; B.A., Madonna College; M.A., Eastern Michigan University.
Rosemary Pawlak, Nursing Admissions Counselor.
Allen Peterman, Director of Academic Computer Services.
Sister Jean Rogoszewski, Bookstore Manager; B.A., Madonna College.
Lawrence Rzepka, Director of Alumni/Parent Relations; B.A., Madonna College.
Dianne Saholski, Assistant Director of Admissions; B.A., Mary Manse College; M.A., Marquette University; Ph.D. candidate, University of Toledo.
Judith A. Schilling, Director of Accounting; B.B.A., Eastern Michigan University.
Robert Spann, Admissions Counselor; B.S., Madonna College.
Melodie Sparks, Counselor for the Hearing Impaired & Special Needs Students; B.S., MacMurray College; M.A., Gallaudet University.
Kathleen Thompson, Media Specialist; B.G.S., Oakland University.
Nancy Torpie, Associate Director of Planned Giving; B.S.A., Eastern Michigan University.
Robin Wagner, Accounting Support Specialist; B.A., Siena Heights College.
Kathleen Wambley, Director of Development; B.A., M.A., Wayne State University.
Barbara Wilson, Senior Accountant; B.S.A., University of Michigan-Dearborn.

Part-Time

Emil Acitelli, Music; B.S., Wayne State University; M.M., University of Michigan.
Grazyna Biskupski, Music; M.M., Chopin Academy of Music; M.M., University of Michigan.
Sister Mary Crispin Blaszczyk, Library; A.B., Madonna College; M.A., University of Notre Dame.
Sister Leonette M. Brzuziewski, Development Assistant; B.A., Ursuline College; M.A., University of Detroit.
Faye Craigie, Learning Center; B.A., Winthrop College.
Reverend Eugene Desjarlais, Campus Ministry; Ph.B., University of Detroit; M.A., University of Michigan.
Francesco DiBlasi, Music; B.A., Madonna College; Conductor, Oakway Symphony Orchestra.
John Drew, Security & Loss Prevention; B.S., Madonna College.
Daryl Galazen, Fire Science; A.A., Ferris State University; B.S., Madonna College.
Donald Gheen, Commercial Art; B.F.A., Center for Creative Studies.
Agnes Godek, English; B.S., Manhattanville College; M.Ed., Wayne State University.
Monsignor Vincent J. Horkan, Director of Special Gifts; B.A., Sacred Heart Seminary; S.T.L., M.A., Ph.D., Catholic University of America.
Helene Jablonski, Music; B.A., M.A., University of Michigan.
Bert Lord, Music; B.M., Lawrence University; M.M., University of Michigan.
Catherine Johnstone, Communication Arts; B.A., Madonna College.
Arlene O. Kruchay, Education Field Experience Placement Officer; B.A., Western New Mexico University; M.A., Eastern Michigan University.
Sister Mary Gilbert Kubik, Library.
Sister M. Coronata Lucas, CSSF, Library/College Archives; A.B., B.S.E., Mary Manse College.
Sister Gregory Maslanka, Library; B.S., St. Mary of the Springs; M.A., University of Detroit.
Ernest Matchulat, Music; B.S., M.A., Wayne State University.
Troy McCormick, Emergency Medical Technology; A.S., Oakland University.
Sharon Meldrum, Sign Language Studies; B.A., Gallaudet College.
Gerard Panyard, Commercial Art; B.A., Madonna College.
Sister Grace Marie Prybys, Development Office; B.A., Madonna College; M.A., University of Notre Dame.
John Reardon, Fire Science; A.S., Macomb Community College.
Marybeth Redmon, Music; B.A., Madonna College.
Sister Marcia M. Ryniewicz, CSSF, Director of College Archives/Supervisor of Audio-Visual Department; A.B., Madonna College; M.Ed., Wayne State University.
Peter Shelest, Occupational Safety & Health; B.S., Madonna College.
Margaret Spas, Biology/Emergency Medical Technology; B.S., Michigan State University; M.T. (A.S.C.P.), Registered Medical Technologist.
Sister Mary Firmine Spychalski, Library; B.A., Madonna College; M.A., University of Detroit; M.L.S., Central Michigan University.
Mary Lou Temple, Health Instruction Center Lab Facilitator; B.S.N., Madonna College.
Robert Trenkle, Fire Science.
Michael Trujillo, Emergency Medical Technology; B.S., Madonna College.
David Wagner, Music; B.M., Wayne State University; D.M.A., University of Michigan.
Kathryn Wallace, Occupational Safety & Health; B.A., University of Detroit.
Patricia Wong, Nursing/Clinical Instruction; B.S.N., Madonna College.

INDEX

A

Academic Achievement List	52
Academic Advising	47
Academic Computer Lab	8, 46
Academic Options:	
Advanced Placement	12
Career Education	14
Contractual Agreements	19
Consortium, Catholic College	14
Continuing Education	14
Cooperative Education	13
Experiential Learning	12
Guest Students	14
Independent Study	13
Study Abroad	15
Telecourses	14
Academic Policies	47
Academic Progress	52
Academic Progress & Financial	
Aid Eligibility	26
Academic Progress Table	53
Academy of Health Careers - see	
Contractual Agreements	
Accounting	71
Accreditations	9
Activities Center	8
Add/Drop	
(Change in Registration)	3, 24
Address Changes	26, 48
Administrative Council	230
Administrative Officers	230
Admissions:	
Application Procedure	16
Early Admission	18
Graduates with Associate Degrees/	
MACRAO Transfer Agreement	19
Non-Admitted Students	17
Non-Degree Seeking Students	17
Notification	16
Provisional Admission	17
Readmission	17
Regular Admission	17
Transfer Students	18
Advanced Enrollment Deposit:	
International Students	23
Nursing Students	23
Advanced Placement	12
Advanced Standing for	
Non-Traditional Students	21

Aging & Mental Health - see Gerontology	
Allied Health Management:	
Course Descriptions	144
Plans of Study	72
Alumni	58
American Institute of Banking - see	
Contractual Agreements	
Appeal Board	54
Application for Graduation	57
Applied Science:	
Course Descriptions	145
Plan of Study	72
Approvals & Accreditations	9
Archives	8, 45
Areas of Concentration	60
Art - see Commercial Art; Fine Arts	
Associate Degree Requirements	62
Athletics	41
Attendance	48
Audit	50
Automated Catalog - see Library	

B

Bachelor Degree Requirements	64
Billing Errors	26
Biochemistry	73
Biology:	
Course Descriptions	148
Plans of Study	73
Board of Trustees	230
Bookstore	7
Buildings - see Respect for Property	
Bulletin Requirements	47
Business, International - see	
International Business & Economics	
Business Administration:	
Course Descriptions	150
Plans of Study	74
Business & Computer	
Systems, Division of	69

C

Calendar	2
Campus Map	244
Campus Ministry	41
Career Education	14
Career Resource Center	44
Carnegie Institute - see Contractual Agreements	

Carry-Over Grade	50	Contractual Agreements:	
Catholic College Consortium	14, 56	Academy of Health Careers	19
Catholic Student Awards, Madonna		American Institute of Banking - see	
College	35	Center for Banking Education	
Catholic Tradition	5	Carnegie Institute	19
Center for Banking Education - see		Center for Banking Education	20
Contractual Agreements		Control Data Institute	20
Center for Personalized		EMS Provider	20
Instruction (CPI)	9, 44	Krainz Woods Academy	20
Certificate of Achievement	62	Michigan Fire Fighters Training	
Certification, Teacher - see Education		Council	20
Change in Registration	24	Michigan Paraprofessional Training	
Change of Address	26, 48	Institute	20
Change of Major	51	Michigan Technical Institute	21
Chemistry:		MoTech Automotive Education	
Course Descriptions	156	Center	21
Plans of Study	75	National Education Center	21
Child Care & Guidance - see Home		National Institute of Technology - see	
Economics & Family Life		National Education Center	
Child Development	76	Specs Howard School of	
Children's Learning Center - see		Broadcast Arts	21
Learning Center		Control Data Institute - see Contractual	
Christian Humanistic Values	6	Agreements	
Church Music - see Music		Cooperative Education	13, 55
Class Schedules	12	Corrections	see Criminal Justice
CLEP Exams - see Experiential Learning		Counseling	44
Clubs & Organizations	39	Course Descriptions	144
College Campus	7	Course Fees (Non-refundable)	23
College Level Examination Program - see		Criminal Justice:	
Experiential Learning		Course Descriptions	162
College Year	12	Plans of Study	83
Commencement	58	Cultural Affairs	40
Commercial Art:			
Course Descriptions	145	D	
Plans of Study	78	Dean's List	52
Committees: Student		Degree Programs	60
Representation on	40	Degree Requirements:	
Communication Arts	79	Associate	62
Communications, Video - see Video		Baccalaureate	64
Communications		Masters - see Graduate Bulletin	
Competency Statements	7	Degrees with Distinction	57
Computer Information Systems:		Dentistry - see Pre-Professional Majors	
Course Descriptions	159	Dietetics	85
Plans of Study	80	Distribution Requirements - see General	
Computer Laboratory	8, 46	Education Requirements	
Computer Science	81	Divisional Organization:	
Computer Technology - see Computer		Business & Computer Systems	69
Information Systems		Humanities	69
Concentration, Areas of	60	Nursing & Health	69
Consortium, Catholic College	14, 56	Science & Technology	69
Continuing Education	14	Social Sciences	70

Carry-Over Grade	50
Catholic College Consortium	14, 56
Catholic Student Awards, Madonna College	35
Catholic Tradition	5
Center for Banking Education - see Contractual Agreements	
Center for Personalized Instruction (CPI)	9, 44
Certificate of Achievement	62
Certification, Teacher - see Education	
Change in Registration	24
Change of Address	26, 48
Change of Major	51
Chemistry:	
Course Descriptions	156
Plans of Study	75
Child Care & Guidance - see Home Economics & Family Life	
Child Development	76
Children's Learning Center - see Learning Center	
Christian Humanistic Values	6
Church Music - see Music	
Class Schedules	12
CLEP Exams - see Experiential Learning	
Clubs & Organizations	39
College Campus	7
College Level Examination Program - see Experiential Learning	
College Year	12
Commencement	58
Commercial Art:	
Course Descriptions	145
Plans of Study	78
Committees: Student Representation on	40
Communication Arts	79
Communications, Video - see Video Communications	
Competency Statements	7
Computer Information Systems:	
Course Descriptions	159
Plans of Study	80
Computer Laboratory	8, 46
Computer Science	81
Computer Technology - see Computer Information Systems	
Concentration, Areas of	60
Consortium, Catholic College	14, 56
Continuing Education	14
Contractual Agreements:	
Academy of Health Careers	19
American Institute of Banking - see Center for Banking Education	
Carnegie Institute	19
Center for Banking Education	20
Control Data Institute	20
EMS Provider	20
Krainz Woods Academy	20
Michigan Fire Fighters Training Council	20
Michigan Paraprofessional Training Institute	20
Michigan Technical Institute	21
MoTech Automotive Education Center	21
National Education Center	21
National Institute of Technology - see National Education Center	
Specs Howard School of Broadcast Arts	21
Control Data Institute - see Contractual Agreements	
Cooperative Education	13, 55
Corrections	see Criminal Justice
Counseling	44
Course Descriptions	144
Course Fees (Non-refundable)	23
Criminal Justice:	
Course Descriptions	162
Plans of Study	83
Cultural Affairs	40
D	
Dean's List	52
Degree Programs	60
Degree Requirements:	
Associate	62
Baccalaureate	64
Masters - see Graduate Bulletin	
Degrees with Distinction	57
Dentistry - see Pre-Professional Majors	
Dietetics	85
Distribution Requirements - see General Education Requirements	
Divisional Organization:	
Business & Computer Systems	69
Humanities	69
Nursing & Health	69
Science & Technology	69
Social Sciences	70

Dorms - see Residence Halls	
Drama - see Speech & Drama	
Dress Code	58
Drives & Solicitation of Funds	59

E

Early Childhood Education - see Child Development	
Economics	165
Education:	
Course Descriptions	166
Plans of Study	86
Elementary Education - see Education	
Emergency Medical Technology:	
Course Descriptions	170
Plans of Study	91
EMS Provider - see Contractual Agreements	
Endowment Scholarships	35
Engineering	92
English:	
Course Descriptions	171
Plans of Study	92
English/Journalism - see English; Journalism & Public Relations	
English/Speech - see English; Speech & Drama	
Equipment - see Respect for Property	
Examinations	51
Experiential Learning	12, 54

F

Faculty:	
Full-Time	231
Adjunct	233
Family & Consumer Resources	173
Fashion Merchandising	94
Federal Aid Programs - see Financial Aid Fees	
Fees	23
Financial Administration	95
Financial Aid:	
Application Procedure	30
College Work Study	32
Eligibility	29
Endowment Scholarships	35
Federal Aid Programs	31
Grants	31
Madonna College Aid Programs	33
Michigan Aid Programs	33
Nursing Student Loans	32
PELL (BASIC) Grants	31

Perkins (Direct) Loans	32
PLUS (Parent Loan for Undergraduate Student)	32
Scholarships	33
SEOG (Supplemental Educational Opportunity Grant)	31
SLS (Supplemental Loan for Students)	32
Stafford Student Loans (formerly GSL)	32
Supplemental Assistance	38
Fine Arts:	
Course Descriptions	145
Plans of Study	96
Fire Science:	
Course Descriptions	178
Plans of Study	98
Food Science - see Nutrition & Food Science	
Food Services	42
Food Service Management	100
Foreign Languages - see French; Japanese; Polish; Spanish	
Franciscan Ideal	5
French:	
Course Descriptions	180
Plans of Study	101

G

General Education Requirements:	
Associate Level	62
Baccalaureate Level	64
Masters Level - see Graduate Bulletin	
General Science:	
Course Descriptions	181
Plans of Study	101
Geography	181
Gerontology:	
Course Descriptions	181
Plans of Study	102
Goals, College	6
Government, Student	40
Guest Students	14
Grade Reports	51
Grades	48
Graduation	57
Graphics	7
Grievance Procedure	54

H

- Handicapped & Hearing Impaired Services 45
- Handicapped & Hearing Impaired Students 43
- Health Instruction Center 46
- Health Services 42
- History:
 - Course Descriptions 184
 - Plans of Study 104
- Home Economics & Family Life 104
- Honors Societies 39
- Hospice Education:
 - Course Descriptions 185
 - Plans of Study 105
- Hospitality Management 106
- Human Resource Administration - see Management
- Humanities:
 - Course Descriptions 187
 - Plans of Study 106
- Humanities, Division of 69

I

- ID Cards 58
- Incomplete Grades 51
- Independent Study 13
- Instrumental Performance - see Music
- Insurance, Medical 42
- Intent to Graduate - see Application for Graduation
- International Business & Economics 106
- International Students 22
- International Students: Tuition Rate 23
- Interpreters 45
- Interpreting - see Sign Language Studies

J

- Japanese Studies:
 - Course Descriptions 188
 - Plans of Study 107
- Journalism - see English; Journalism & Public Relations
- Journalism & Public Relations:
 - Course Descriptions 188
 - Plans of Study 107

K

- Krainz Woods Academy - see Contractual Agreements

L

- Laboratory Technician - see Medical Technology
- Languages - see French; Japanese; Polish; Spanish
- Law - see Legal Assistant; Pre-Law
- Law Enforcement - see Criminal Justice
- Learning Center 9
- Learning Disabilities - see Special Education
- Legal Assistant:
 - Course Descriptions 190
 - Plans of Study 108
- Level of Instruction 47
- Library 8, 45
- Library Services 45
- Long Term Care Administration 109

M

- MACRAO Transfer Agreement - see Admissions
- Madonna Academic Performance Program (MAPP) 44
- Madonna College Aid Programs see Financial Aid
- Majors 60
- Management 110
- Marketing 112
- Master Degree Programs - see Graduate Bulletin
- Mathematics:
 - Course Descriptions 192
 - Plans of Study 113
- Medical Laboratory Technician - see Medical Technology
- Medical Technology:
 - Course Descriptions 195
 - Plans of Study 113
- Memberships 10
- Mental Health & Aging - see Gerontology
- Mental Health Certificate - see Psychology
- Merit Award, Madonna College 35
- Michigan Aid Programs - see Financial Aid
- Michigan Fire Fighters Training Council - see Contractual Agreements
- Michigan Paraprofessional Training Institute - see Contractual Agreements
- Michigan Technical Institute - see Contractual Agreements

Mission Statement	5
MoTech Automotive Education	
Center - see Contractual Agreements	
Music:	
Course Descriptions	197
Plans of Study	115
Music Education	see Music
Music Management	see Music

N

National Education Center - see	
Contractual Agreements	
National Institute of Technology - see	
Contractual Agreements	
Natural Science:	
Course Descriptions	200
Plans of Study	118
Non-Admitted Students - see Admissions	
Non-Degree Seeking Students - see	
Admissions	
Non-Refundable Fees	23
Notetakers	45
Nursing:	
Course Descriptions	201
Plans of Study	120
Nursing & Health, Division of	69
Nursing Home Care - see Long Term	
Care Administration	
Nutrition & Food Science	122

O

Occupational Safety & Health:	
Course Descriptions	203
Plans of Study	123
Occupational Safety, Health & Fire	
Science	99, 123
Optometry - see Pre-Professional Majors	
Orientation to Higher Education	
(COL 101)	159
Osteopathy - see Pre-Professional	
Majors	

P

Parking Regulations	58
Pass/Fail Grade - see Satisfactory Grade	
Pastoral Ministry	125
Payment Plans	25
Payment Policies	25
Penalties	26
Pharmacy - See Pre-Professional	
Majors	

Philosophy:	
Course Descriptions	205
Plans of Study	126
Physical Education	41
Course Descriptions	207
Physics:	
Course Descriptions	208
Plans of Study	126
Piano Pedagogy - see Music	
Plans of Study	71
Podiatry - see Pre-Professional Majors	
Policies, Changes in	59
Polish:	
Course Descriptions	209
Plans of Study	126
Political Science:	
Course Descriptions	209
Plans of Study	127
Pre-Law	127
Pre-Nuclear Medicine Technology - see	
Radiography	
Pre-Professional Majors	
(Pre-Dentistry, Pre-Medicine,	
Pre-Osteopathy, Pre-Podiatry,	
Pre-Veterinary)	116
Pre-Radiography - see Radiography	
Probation	30, 52
Production Management - see	
Management	
Professional Writing - see Writing,	
Professional & Technical	
Programs, Degree	60
Prohibitions	58
Psychology:	
Course Descriptions	210
Plans of Study	127
Public Administration:	
Course Descriptions	212
Plans of Study	128
Public Relations - see Journalism &	
Public Relations	

R

Radiography:	
Course Descriptions	213
Plans of Study	129
Reading - see Education	
Readmission	17, 47
Records, Student	56
Refunds/Credit Adjustments	27
Registration	48
Reinstatement	52

Religious Studies:
 Course Descriptions213
 Plans of Study130
 Residence Hall9, 42
 Residence Hall Fees24
 Respect for Property59

S

Satisfactory Academic Progress - see
 Academic Progress
 Satisfactory Grade50
 Schedule, College - see Calendar
 Scholarships33
 Scholarships, Endowment35
 Scholastic Integrity51
 Science & Technology, Division of ...69
 Secondary Education - see Education
 Security & Loss Prevention:
 Course Descriptions216
 Plans of Study132
 Sign Language Studies:
 Course Descriptions217
 Plans of Study133
 Social Science:
 Course Descriptions220
 Plans of Study136
 Social Sciences, Division of70
 Social Work:
 Course Descriptions220
 Plans of Study136
 Sociology:
 Course Descriptions222
 Plans of Study137
 Solicitation of Funds59
 Spanish:
 Course Descriptions225
 Plans of Study138
 Special Education:
 Course Descriptions226
 Plans of Study138
 Speech - see English; Speech & Drama
 Speech & Drama:
 Course Descriptions228
 Plans of Study140
 Sports - see Athletics; Physical Education
 Staff, Academic & Institutional236
 Student Government40
 Student Life39
 Student Life Policies58
 Student Load47
 Student Payment Policies25

Student Records56
 Student Support Services44
 Study Abroad15
 Supplemental Assistance Programs -
 see, also, Financial Aid
 Bureau of Indian Affairs38
 Employee Tuition Reimbursement ...38
 Veteran's Benefits38
 Vocational Rehabilitation38

T

Teacher Education - see Education
 Technical Writing - see Writing,
 Professional & Technical
 Telecourses14
 Television Studio7
 Termination52
 Trade & Industry - see Vocational
 Authorization/Endorsement
 Transcripts51
 Transfer Students18
 Trustees - see Board of Trustees
 Tuition23
 Tuition, International23
 Tuition Reimbursement, Employee ...38
 Tuition Waivers, Senior Citizens ...37

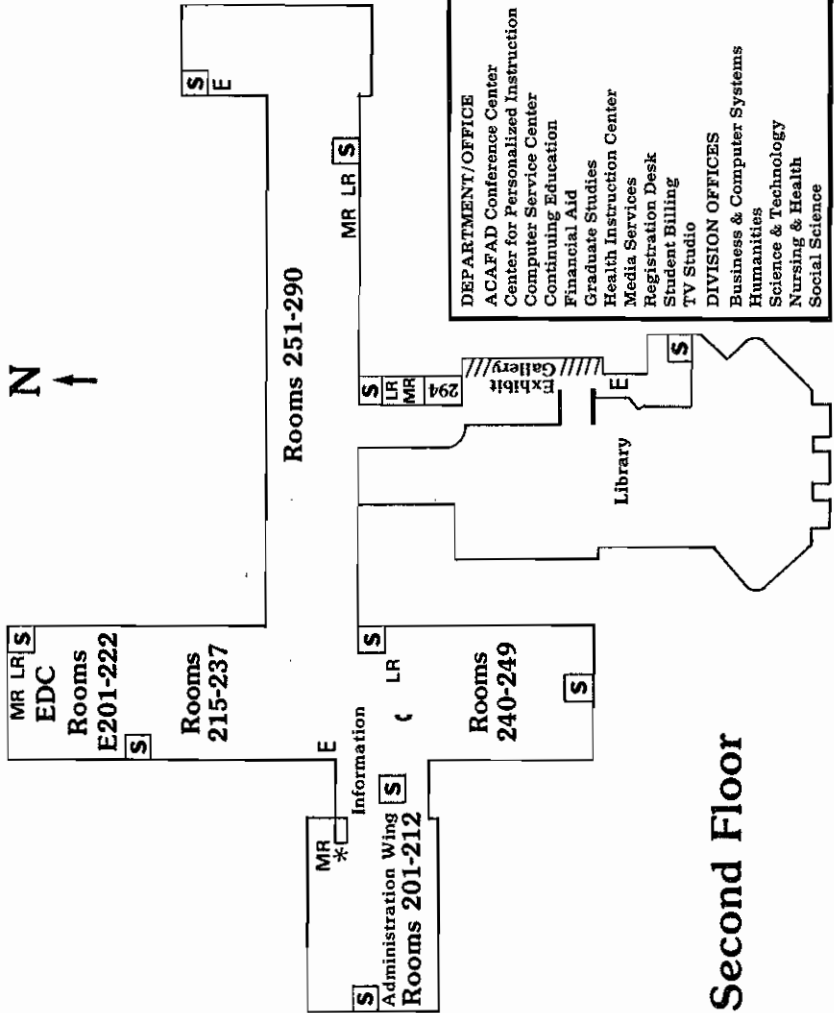
V

Veterinary - see Pre-Professional Majors
 Video Communications141
 Vocal Performance - see Music
 Vocational Authorization/
 Endorsement142

W

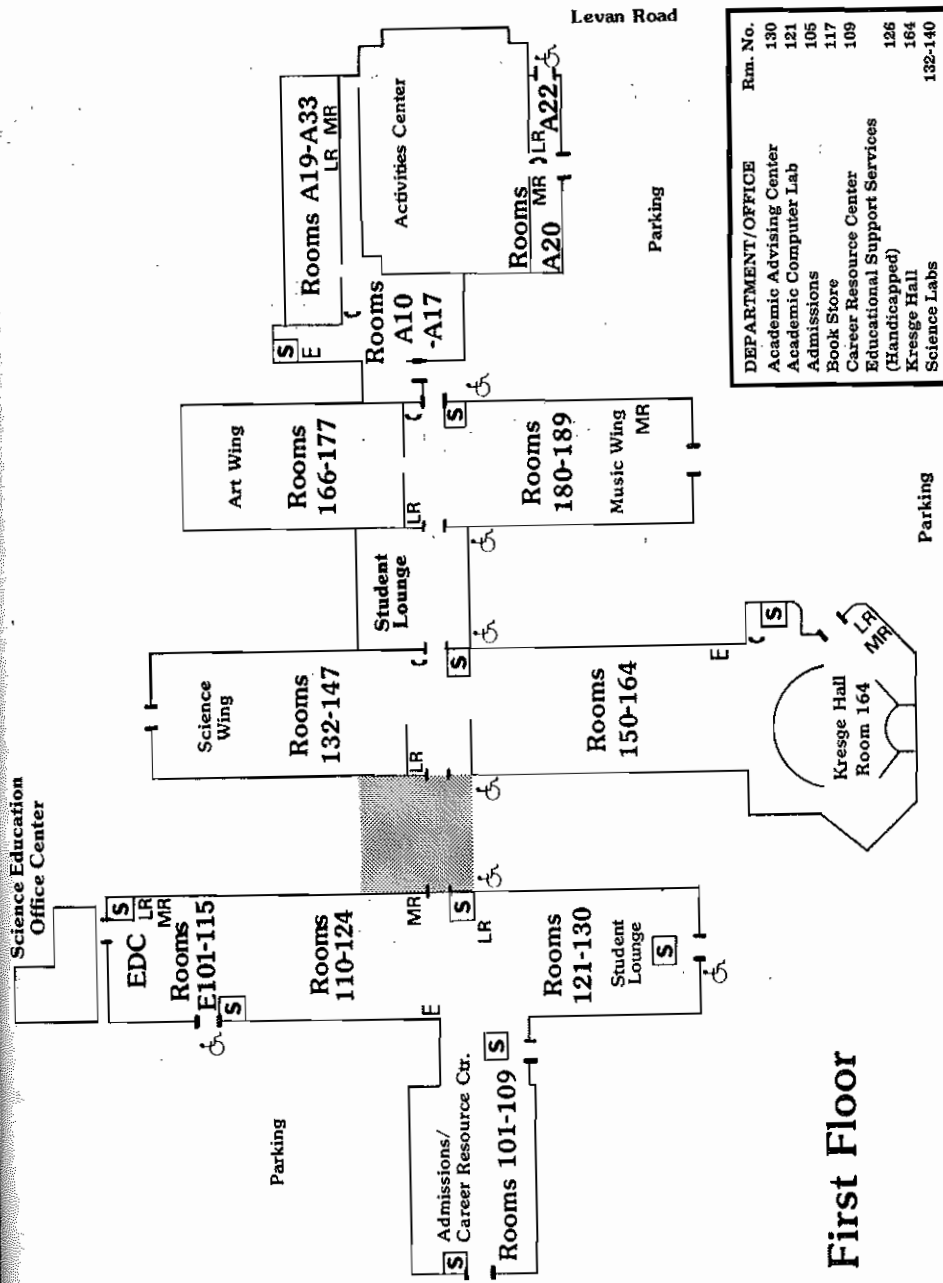
Withdrawal, Course50
 Work Study32
 Writing, Professional & Technical 142

Madonna College Academic Building



Second Floor

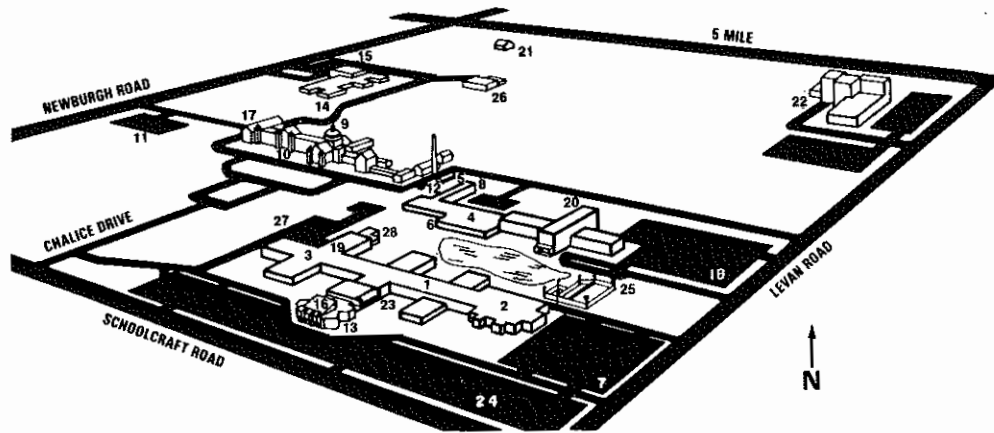
DEPARTMENT/OFFICE	Rm. No.	Elevators	Stairs	Ladies' Restroom	Men's Restroom	Handicapped Entrance	Phone
ACAFAD Conference Center	294						
Center for Personalized Instruction	EDC						
Computer Service Center	212						
Continuing Education	217						
Financial Aid	205						
Graduate Studies	266						
Health Instruction Center	243						
Media Services	249						
Registration Desk	*						
Student Billing	206						
TV Studio	248						
DIVISION OFFICES							
Business & Computer Systems	221						
Humanities	256						
Science & Technology	137						
Nursing & Health	290						
Social Science	258						



DEPARTMENT/OFFICE	Rm. No.
Academic Advising Center	130
Academic Computer Lab	121
Admissions	105
Book Store	117
Career Resource Center	109
Educational Support Services (Handicapped)	126
Kresge Hall	164
Science Labs	132-140

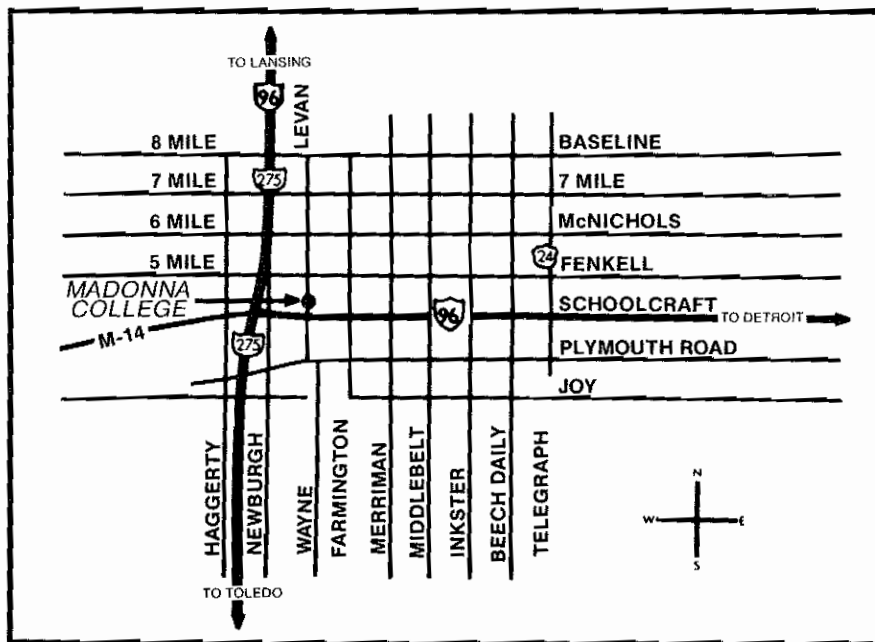
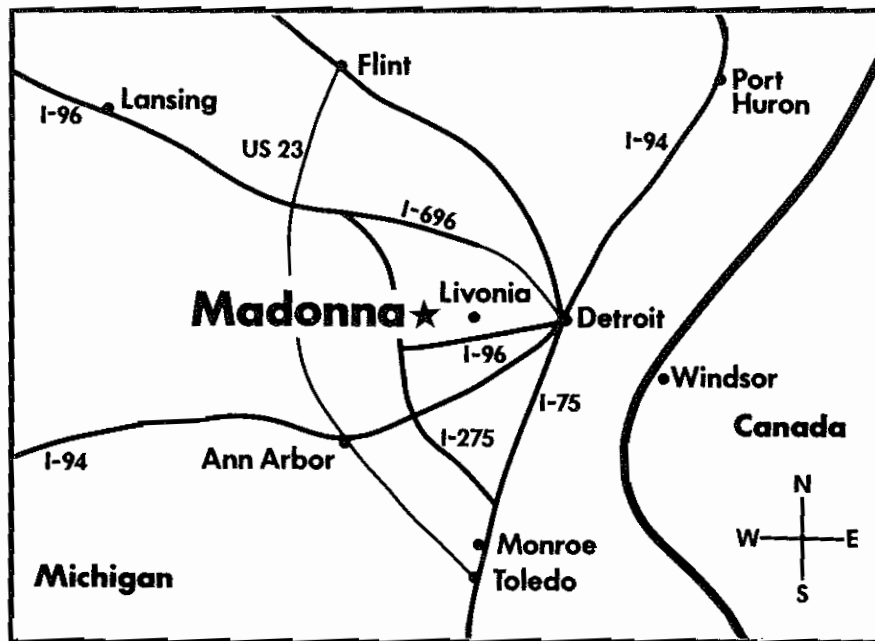
First Floor

Schoolcraft Rd.-196




MADONNA COLLEGE CAMPUS MAP


- | | |
|--------------------------------------|-------------------------------------|
| 1. Academic Building | 16. Library |
| 2. Activity Center | 17. Montessori School |
| 3. Administration | 18. North College Parking Lot |
| 4. Cafeteria and Student Center | 19. Psycho-Education Center |
| 5. Clergy Motel | 20. Residence Hall |
| 6. College Chapel | 21. Saint Clare Nursing Home |
| 7. East College Parking Lot | 22. Saint Mary Hospital |
| 8. Faculty Residence | 23. Science Lecture Hall |
| 9. Felician Sisters Chapel | 24. South College Parking Lot |
| 10. Felician Sisters Motherhouse | 25. Tennis and Basketball Courts |
| 11. Felician Sisters Parking Lot | 26. Ladywood Convent |
| 12. Guest House | 27. West College Parking Lot |
| 13. Kresege Hall | 28. Science Education Office Center |
| 14. Ladywood High School | |
| 15. Ladywood High School Parking Lot | |






The , the first initial of Madonna, is a tribute to Mary, the patroness of Madonna College.

The flame symbolizes the Holy Spirit, the source of all knowledge, and signifies the fact that liberal arts education is the aim of Madonna College whose motto is *Sapientia Desursum* (Wisdom from Above).

The upward movement of the slanted  implies continuous commitment to meeting the ever growing educational needs and assurance of standards of academic quality.

The box enclosing the  is symbolic of unity through ecumenism.

The heavy bottom line of the box signifies the Judeo-Christian foundation of the College.

(The Madonna College logo was adopted in 1980)

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