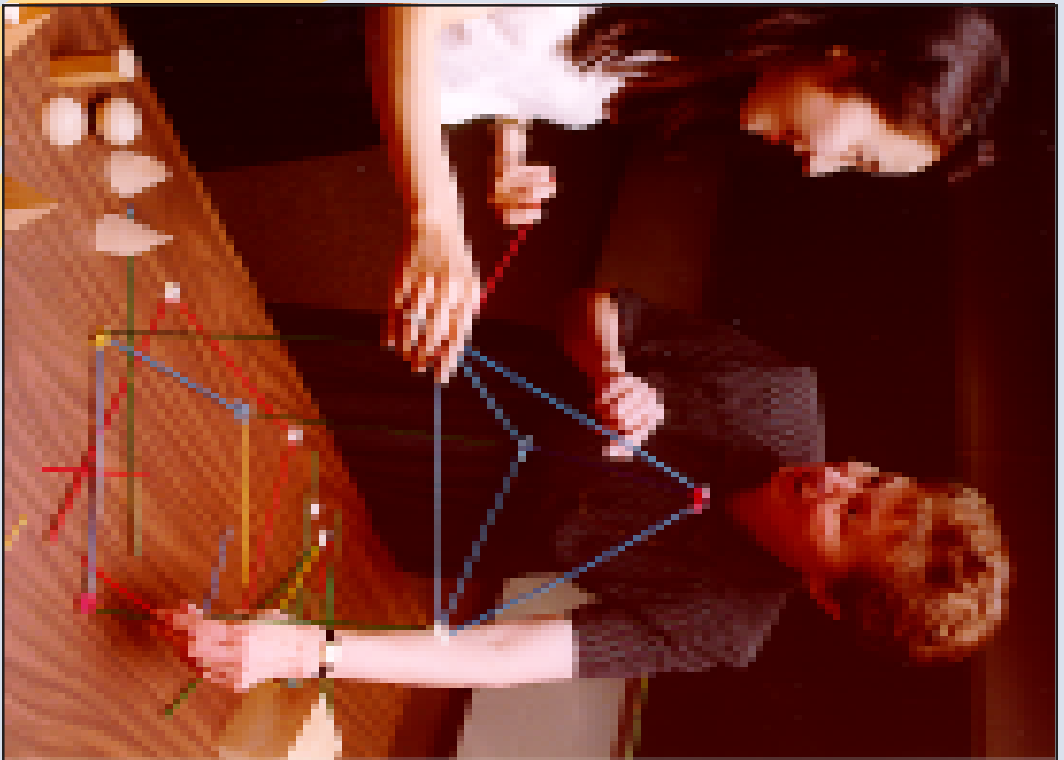


College of Science & Mathematics



**MADONNA
UNIVERSITY**

Livonia, Michigan, USA

College of Science & Mathematics

The College of Science & Mathematics strives to advance the concepts of science and mathematics to meet the scientific and technological demands of the world. Faculty seek to stimulate the intellectual curiosity of students and encourage habits of logical analysis, sound judgment, and critical thinking by using scientific experimentation and problem-solving. The academic programs of the College foster a holistic view of the universe in which science and math complement the knowledge students gain through the humanities and behavioral sciences.

Allied Health Administration

Program features

Health professionals who have completed an accredited clinical program and possess certification or licensure in a specialty field may take advantage of the **Allied Health Administration** major leading to a bachelor's degree. Paramedics, medical lab technicians, dental assistants and others who have graduated from health programs and wish to expand their career options are offered the opportunity to earn a Bachelor of Science in Allied Health Administration or an Associate of Applied Science in Allied Health.

Career options

Students are prepared for management or administration in the public and private health care sectors, as well as for the pursuit of graduate studies.

Applied Science

Program features

The **Applied Science** program is designed for students who have completed approved vocational and technical programs at community colleges and selected local institutions, and wish to earn an associate or bachelor degree. Areas include electronics technology, auto

mechanics, industrial controls, and auto collision repair. Students transfer courses from their field of study to the University and complete additional required courses in chemistry, physics and math.

Career options

This innovative program allows students to earn a degree in a technical field to enhance their career options.

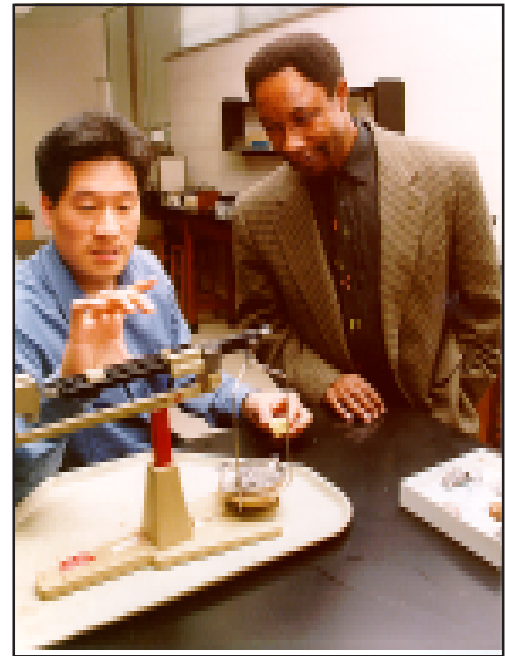
Biochemistry/ Chemistry/Biology

Program features

A major is available in **Biology**, **Biochemistry** and **Chemistry**. Students may also choose to minor in Biology, Chemistry or **Physics**. The programs provide students with the knowledge of fundamental concepts, as well as theoretical and practical aspects of the field. Instructors work with students in both the classroom and laboratory. Teacher education students may earn a certificate in Biology, Chemistry or Physics.

Career options

Graduates from the program are equipped for careers in research, education, industry, pharmaceutical sales, environmental studies, hospitals, clinics, and laboratories, or entrance to graduate and professional schools.



Computer Science

Program features

The **Computer Science** program combines computer programming theory with practical experience using computers. Offered as both a major and minor, coursework emphasizes modular and structured programming, reflecting recent developments in the field. Education students can obtain a teaching certificate in computer science.

Career options

Students are prepared for positions such as programmers, developers for software companies, or systems analysts.

Dietetics/Nutrition & Food Science

Program features

Approved by the American Dietetic Association, **Dietetics** is a bachelor's degree program which equips students to earn a credential in the field. The **Nutrition & Food Science** program, offered as a major and minor, is designed for those who do not wish to become

professional dietitians. Students may tailor this program to fit their career goals by combining coursework in journalism, marketing, or another discipline.

Career options

Professional dietitians may pursue employment in areas such as health education, nutrition counseling, or food service management. Graduates from the Nutrition & Food Science program may secure positions in health care agencies, schools and colleges, or food processing and distribution companies.

Fire Science/ Occupational Safety, Health & Fire Science

Program features

Offered as a major and minor, the **Fire Science** program focuses on the history of fire protection problems and covers methods of conducting fire and arson investigations. **Occupational, Safety, Health & Fire Science** is a combined group major. This unique program provides knowledge of safety and health standards, combined with fire protection

principles. Students also have the option to minor in **Occupational Safety & Health**. Faculty are professionals in the field.

Career options

Career opportunities include employment as a fire/safety director in industrial, commercial or institutional settings.

General Science/ Natural Science for Teachers

Program features

The **General Science** program is a major designed for K-8 teacher education students. Coursework covers an array of classes in biology, chemistry, physics, earth science, and astronomy. Education students may also earn a teaching certificate in the group major **Natural Science**.

Career options

Students in the General Science program are prepared for elementary and middle school teaching positions or to serve as science curriculum coordinator. Natural Science graduates teach at the junior and senior high school level.

Mathematics

Program features

The University offers a major or minor in **Mathematics**, and education students may earn a teaching certificate in math. The program encourages students to reason mathematically, be active problem solvers, and become independent learners of math. The Mathematics Learning Center provides an out-of-class environment where students collaborate on projects, conduct experiments, and prepare presentations.

Career options

In addition to education, mathematics majors may pursue careers in actuarial science and statistics. Students may also elect to enter graduate programs in engineering or mathematics.

Medical Technology/ Medical Laboratory Technician

Program features

Three levels of education in **Medical Technology** are available to students. The Associate of Applied Science in **Medical Laboratory Technology** prepares the student for entry level positions in the clinical laboratory. A major which leads to a Bachelor of Applied Science degree has two career tracks — Medical Technology and Medical Laboratory Technology — with a competitive internship as part of the degree work. The Bachelor of Science degree program for biology majors features a medical technology internship following graduation.

Career options

Graduates of the programs are qualified to practice in hospitals, clinics, research laboratories, pharmaceutical firms, health maintenance organizations, and in public health laboratories.

Pre-Professional/ Pre-Engineering

Program features

The Pre-Professional Program is designed for **Pre-Chiropractic, Pre-Dentistry, Pre-Medicine, Pre-Optometry, Pre-Osteopathy, Pre-Pharmacy, Pre-Physician's Assistant, Pre-Podiatry, and Pre-Veterinary** students. Any major may be selected by students, who then complete a core of classes in the sciences. Since professional schools and programs vary in requirements for admission, students are encouraged to contact admissions offices at each school for requirements as they begin studies at Madonna University.

Through an arrangement with the University of Detroit Mercy, students may earn an **Engineering** degree. After completing a specific program for each institution, students are awarded a Bachelor of Science degree from Madonna University and a Bachelor of Engineering degree from the University of Detroit Mercy.

Career options

Upon completion of a planned program of study, graduates will be prepared to apply to professional schools and take any required entry examinations. Engineering students will be ready for positions in their field.

Pre-Radiography/ Pre-Nuclear Medicine Technology

Program features

Students in the **Pre-Radiography** and **Pre-Nuclear Medicine Technology** program earn an Associate of Science degree in Natural Science. The program prepares students who wish to enter a JRCRT or JRCNMT approved, competitive, clinical internship in nuclear medicine or radiography. Upon graduation from the internship, students may complete bachelor's degree requirements in **Allied Health Administration**.

Career options

Graduates may pursue positions as radiographers, radiation therapists, nuclear medicine technologists, or diagnostic medical sonographers in a variety of health care settings. Bachelor's degree recipients are prepared for program coordination or management of imaging services.

Our Faculty

Faculty in the College of Science & Mathematics bring a rich mixture of scholarly learning and an abundance of professional experiences to the classroom. In support of the University's mission of career preparation, many of the College's programs require or encourage students to undertake cooperative education experiences or internships, guided by faculty. Due to small class sizes, students enjoy the individual attention of their instructors.

Mission Statement

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

A Quality Education at Madonna University

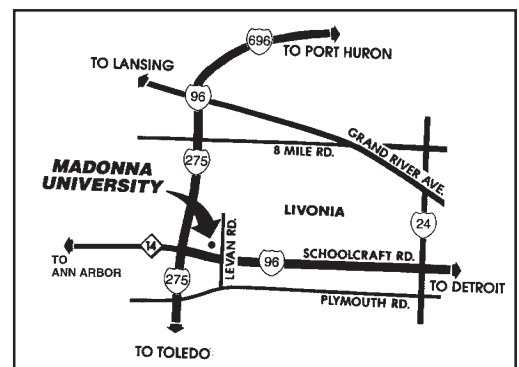
- Michigan's most affordable, independent, liberal arts university
- Enrollment: Approximately 4,000 degree seeking students
- Accreditation by North Central Association of Colleges and Schools (30 North LaSalle St., Suite 2400, Chicago, IL 60602-2504, 312/263-0456)
- Associate's, Bachelor's and Master's Degrees
- Flexible schedule of classes: morning, afternoon, evening, Saturday and telecourses
- Personalized attention: Student/faculty ratio is 15 to 1
- Students have access to the Internet, e-mail, World Wide Web and technology classrooms
- Opportunity to earn college credit for prior learning
- Easy access from major freeways, with free, lighted parking and a barrier-free campus
- Cooperative education and job placement for all majors
- A values-based education with service learning opportunities
- Residence hall housing for 150 students

Admission Requirements

Admission to the University is granted to high school graduates with a minimum cumulative high school grade point average of 2.75 or transfer applicants who have earned a minimum cumulative college grade point average of 2.0. 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.

For Information or a Campus Visit

College of Science &
Mathematics
734/432-5523
or
Admissions Office
734/432-5339
TTY 734/432-5753
FAX 734/432-5393



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800-852-4951
TTY 734/432-5643
web: www.madonna.edu
e-mail: muinfo@madonna.edu

Madonna University reserves the right to withdraw or modify information in this brochure.

See Advisor/Admissions Office for current information.

Madonna University guarantees the right to equal educational opportunity without discrimination because of race, religion, sex, national origin, age, or disabilities. 1/99