



News Release

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Madonna's New Emergency Management Degree Prepares Students to Manage Disasters

LIVONIA, Mich. – Emergency managers and first responders are in high demand, and Madonna University's new bachelor's degree in emergency management will prepare students for these careers. The program, to begin this fall, will include concentrations in fire science or occupational safety and health. Courses will give students the necessary skills to prepare for, respond to, and recover from natural, manmade, and technological disasters.

Ideal candidates for this program are supervisors, risk managers and operations officers. Schools, hospitals, correctional facilities, stadiums, shopping malls, recreational areas, and businesses must all be prepared for emergencies.

"Madonna University has a well-rounded program that covers an array of contemporary subject matter," said faculty member Gary Trujillo, who helped implement the new degree. "We're different than just a survey program. Students participate in hands-on learning to gain employable skills."

Students will learn how to respond to terrorist acts, industrial espionage, and hazardous material situations. A variety of topics will ensure emergency responders are prepared to handle disasters. Planning, grant writing, forensic science techniques, psychological skills, and many other subjects will be covered.

"There are jobs locally and nationally that require expertise in emergency management," said Ted Biermann, dean of Madonna's College of Science and Mathematics. According to the U.S. Department of Labor, the need for these workers will rise through the year 2014.

Upon completion of Madonna University's emergency management program, graduates will have the skills to earn FEMA, NIMS, and first responder certifications. For more information about earning a Bachelor of Arts in Emergency Management, please call 734.432.5339.

Celebrating 70 years of academic excellence, Madonna University is a liberal arts university for men and women. Conveniently located at I-96 and Levan Road in Livonia, the University offers 75 career-oriented undergraduate and 25 master's programs. Classes also are offered at the Orchard Lake Center and at the Downriver Center in Southgate.

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Madonna University

Emergency Management • College of Science and Mathematics

Future of Emergency Management

The problems we face today are much more complex and are different than those faced even a generation ago—growth and changes in this country have created new threats and challenges for our society. Life is getting more complicated with new technologies and unfamiliar vulnerabilities and threats they bring; and the movement of people into Sunshine States placing them at greater risk to such hazards as earthquakes, tornadoes, hurricanes and wildfires.

Program Objectives

- Gain employable skills in emergency management.
- Attain recognized national qualifications/certifications (e.g., first responder; FEMA; NIMS).
- Critique the global origins and history of threats.
- Identify and use appropriate public and private sector resources in context.
- Demonstrate contemporary skills to identify threats to targeted information and technologies.
- Demonstrate the ability to make response, recovery, and contingency plans to hazardous materials incidents.
- Demonstrate incident and mitigation response skills.
- Recognize psychological needs of emergency service professionals and disaster victims.
- Demonstrate the ability to use basic knowledge of physical, chemical, and biological sciences as theoretical foundations for Fire Science, OSHA, and Emergency Management advanced curriculum courses.

Plan of Study - Bachelor Degree of Science Emergency Management Major (47 s.h.)

Required Core Courses:

| | |
|--|----------------|
| EM 1010 Introduction to Fire Protection and Prevention (FS*) | 3 s.h. |
| EM 2010 Foundations of Emergency Management | 3 s.h. |
| EM 3010 Resource Allocation and Planning | 3 s.h. |
| EM 3020 Industrial Espionage and Operations Security | 3 s.h. |
| EM 3310 Management of the Bereavement Process (HSP*) | 3 s.h. |
| EM 3490 Psychology of Traumatic Experiences (PSY*) | 1 s.h. |
| EM 3500 Homeland Security and Terrorism (CJ*) | 3 s.h. |
| EM 4140 Grant Writing and Grant Administration (GER*) | 2 s.h. |
| EM 4510 Hazardous Materials I (FS/OSH*) | 3 s.h. |
| EM 4520 Hazardous Materials II (FS/OSH*) | 3 s.h. |
| EM 4950 Senior Seminar | <u>2 s.h.</u> |
| Total Core | 29 s.h. |

Required Concentration:

| | |
|---|----------------|
| (see below—either Fire Science or Occupational Safety and Health) | <u>18 s.h.</u> |
| Major Total | 47 s.h. |

Fire Science Concentration:

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|---|--------|
| FS 2150 Building Construction (OSH*) | 3 s.h. |
| FS 3500 Hydraulics and Water Supply (OSH) | 3 s.h. |
| FS 3680 Fire Protection Systems I (OSH) | 3 s.h. |
| FS 3690 Fire Protection Systems II (OSH) | 3 s.h. |
| FS 4280 Fire and Arson Investigative Techniques (OSH) | 3 s.h. |
| FS 4400 Tactics and Strategy (OSH) | 3 s.h. |

Occupational Safety and Health Concentration:

| | |
|---|--------|
| OSH 1020 Standards and Regulations | 3 s.h. |
| OSH 3110 Industrial Safety And Health (FS) | 3 s.h. |
| OSH 3220 Inspection and Survey of Facilities (FS) | 3 s.h. |
| OSH 3310 Safety Program Management | 3 s.h. |
| OSH 3520 Industrial Hygiene I | 3 s.h. |
| OSH 3980 Industrial Hygiene II | 3 s.h. |

Required Support Courses:

| | |
|--|---------------|
| BIO 2240 Basic Human Physiology | 4 s.h. |
| CHM1110 General Chemistry I | 4 s.h. |
| FOR 1010 Introductory Principles Of Forensic Science | 3 s.h. |
| MTH 1050 Intermediate Algebra <i>or</i> | |
| MTH 1210 Pre-calculus | 4-5 s.h. |
| PHY 2530 General Physics I | <u>4 s.h.</u> |

Total Support Course 19-20 s.h.

Recommended Electives:

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|--|--------|
| CHM 1610 Introduction to Life Chemistry | 4 s.h. |
| CIS 2380 Introduction to Computers <i>or</i> | |
| CSC 2101 Web Fundamentals | 3 s.h. |
| MIS 3440 Information Security | 3 s.h. |
| PHY 2540 General Physics II | 4 s.h. |



Madonna University

For Admissions Information

Office of Undergraduate Admissions
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Livonia, MI 48150-1173
734/432-5339
Fax 734/432-5393
800-852-4951 (x5339)

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For Program Information

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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.

6/2007

Career Options

- Fire Fighters
- Police Officers
- City Managers
- City Council Members
- County Board Members
- Planning Directors
- Finance Directors
- Procurement Directors
- Personnel Managers
- Risk Managers
- Emergency Management Directors
- Information Technology Specialists
- Public Information Officers
- Emergency Medical Services Staff
- Correctional Officers
- Public Works Directors and Staff
- Utility Company Representatives (gas, electric, telephone)
- Building and Safety Representatives
- Volunteer Agency Representatives (Red Cross, Salvation Army, Council of Churches, Ministerial Associations, United Way, etc.)

Career Outlook

The U.S. Department of Labor projects a 28.2% increase in the demand for Emergency Management Specialist through the year 2012. They also project a 13.2% increase in the demand of Occupational health and safety specialists through the year 2012.

EM Certifications:

- Hazard Materials Technician
- Homeland Security (criminal justice)
- Federal Emergency Management Agency (FEMA)
 - National Incident Management System
 - Incident Command