

About the Program

Overview

Students interested in a Forensic Science major must complete a pre-forensic science block of courses with a minimum of a 2.75 GPA in the block, in order to be eligible to apply for acceptance into the Forensic Science Program.

Transfer students with over 60 semester hours completed at other institutions and post-degree students, to be admitted with the intent to pursue the pre-forensics path, must have a cumulative GPA of at least 2.8, have completed at least 2/3 of all course work attempted, and be in good academic and personal standing at prior institutions.

Unique Features

- The only FEPAC-accredited undergraduate Forensic Science program in the state of Michigan.
- Program includes at least one minor in Biology or Chemistry for Forensic Science.
- Work with experienced Instructors.

Job Activities

Forensic scientists investigate crimes by analyzing physical evidence, working in both public and private laboratory settings. Often, they specialize in areas such as DNA analysis or firearm examination or perform tests on weapons or substances such as fiber, hair, tissue, or body fluids to determine significance to the investigation. They also prepare reports to document their findings and the laboratory techniques used. When criminal cases come to trial, forensic science technicians often provide testimony as expert witnesses on specific laboratory findings by identifying and classifying evidence collected at the crime scene.

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

PRE-FORENSIC SCIENCE COURSES:

BIO 1030	General Biology I	4 s.h.
CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
FOR 1010	Introduction to Forensic Science	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.
MTH 2510	Calculus with Analytic Geometry I	5 s.h.
WRT 1020	College Comp II	<u>3 s.h.</u> 32 s.h.

Required Major Courses:

FOR 1010	Introduction to Forensic Science	4 s.h.
FOR 3310	Impression and Trace Evidence Analysis	4 s.h.
FOR 3420	Firearm and Tool Mark Analysis	4 s.h.
FOR 4620	Forensic Biology	4 s.h.
FOR 4540	Forensic Chemistry I (CHM)	4 s.h.
FOR 4550	Forensic Chemistry II (CHM)	4 s.h.
FOR 3430	Introduction to Forensic Anthropology or	
FOR 4640	Toxicology	3-4 s.h.
FOR 4650	Ethics and Expert Testimony	4 s.h.
FOR 4950	Senior Seminar	2 s.h.

Electives (3 s.h. selected from below):

BIO 2260	Microbiology (4 s.h.)
FOR 3210	Principles of Criminology (CJ*/SOC) (3 s.h.)
FOR 3430	Intro to Forensic Anthropology (4 s.h.)
FOR 4010	Population Genetics (BIO*) (3 s.h.)
FOR 4640	Toxicology (BIO) (3 s.h.)
FOR 4910, 4920	Co-op (2-6 s.h.)
FOR 4930	Internship (1-4 s.h.)

Note: students who complete a Criminal Justice major or minor in conjunction with the Forensic Science major may not include CJ courses in the Forensic Science major. Review the rule "When Courses May Satisfy More Than One Requirement" in the Catalog.

See Forensic Science certificates on the back.

Required Support Courses:

BIO 2450	Anatomy and Physiology I	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4410	Molecular Biology	3 s.h.
CHM 2220	Organic Chemistry II	4 s.h.

CHM 3610	Biochemistry I	4 s.h.
CHM 4510	Instrumental Analysis	4 s.h.
FOR 3040	Criminal Law & Procedure (CJ*)	3 s.h.
PHY 2630	Physics for Scientists and Engineers I	4 s.h.
PHY 2640	Physics for Scientists and Engineers II	<u>4 s.h.</u>
Total Support Courses:		<u>28 s.h.</u>

At least one Minor is required with the Forensic Science major. Both minors are strongly recommended for students interested in Forensic Medicine.

Chemistry Minor for Forensic Science Majors:

CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
CHM 3610	Biochemistry I (BIO)	4 s.h.
CHM 4510	Instrumental Analysis	4 s.h.
CHM 4550	Forensic Chemistry I (FOR*)	<u>4 s.h.</u> 24 s.h.

Biology Minor for Forensic Science Majors:

BIO 1030	General Biology I	4 s.h.
BIO 1040	General Biology II	4 s.h.
BIO 2450	Human Anatomy & Physiology I	4 s.h.
BIO 2460	Human Anatomy & Physiology II	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4010	Population Genetics (FOR*)	
or BIO 4640	Toxicology (FOR*)	3 s.h.
BIO 4410	Molecular Biology	<u>3 s.h.</u> 26 s.h.

Additional Program Requirements:

- Hepatitis A/B immunization
- Background check
- Participation in a national standardized assessment examination (e.g., American Board of Criminalistics) prior to graduation.

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all CNSS programs.)

For Admissions Information

Application and any transcripts are to be submitted directly to:

Office of Undergraduate Admissions
 Madonna University
 36600 Schoolcraft Road
 Livonia, Michigan 48150-1176
 (734) 432-5339
 (800) 852-4951, ext. 5339
 FAX: (734) 432-5424

Web: www.madonna.edu
 E-mail: admissions@madonna.edu

VideoPhone: (734) 259-3796

For Program Information

Jodi Lynn Barta, Ph.D.
 Forensic Science Program Director
 Biological and Health Sciences
 Madonna University
 36600 Schoolcraft Road
 Livonia, Michigan 48150-1176

E-mail: jlbarta@madonna.edu

(734) 432-5514
 (800) 852-4951, ext. 5514
 FAX: (734) 432-5592

Web: www.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.

DNA Analysis Certificate of Completion (22 s.h.)

Required Certificate Courses:

BIO 3010	Genetics	4 s.h.
BIO 4010	Population Genetics (FOR)	3 s.h.
BIO 4410	Molecular Biology	3 s.h.
CHM 3610	Biochemistry I (BIO)	4 s.h.
FOR 4620	Forensic Biology	4 s.h.
MTH 2350	Probability and Statistics	4 s.h.
		<u>22 s.h.</u>

Forensic Science Post-Bachelor Certificate of Achievement

The Post-Bachelor Certificate of Achievement in Forensic Science is available to degree-holding students whose prior degree majors are too heavy in science to allow a Second Bachelor program in Forensic Science.

Required Certificate Courses:
 Each student's plan is individually written to cover those courses that were not taken for the original bachelor degree. The plan requires all of the following courses not previously completed with a grade of C (2.0) or better:

Forensic Science Required Major Courses	
Forensic Science Required Support Courses	
Required Minor Courses	
RST 4110	Medical Ethics (PHL) or
RST 4140	Life/Death Issues <u>3-4 s.h.</u>
Minimum hours earned at Madonna	30 s.h.

While the minimum requirement for the certificate is 30 s.h. post-bachelor at Madonna University, meeting all requirements makes the plans of some students longer. For those for whom the plan might be short, additional courses to fulfill the 30 s.h. residency requirement are available from the Forensic Science electives group.

Crime Scene Practice Certificate of Completion (20 s.h.)

CJ 1020	Intro to Criminal Justice	3 s.h.
FOR 3040	Criminal Law & Procedures (CJ*)	3 s.h.
CJ 4230	Homicide Investigation	3 s.h.
CJ 4450	Interviewing & Investigative Report Writing	3 s.h.
FOR 1010	Introduction to Forensic Science	4 s.h.
		<u>16 s.h.</u>

Crime Laboratory Technician Certificate of Achievement (36-37 s.h.)

Required Certificate Courses:

WRT 1010	College Composition I	3 s.h.
FOR 1010	Introduction to Forensic Science	4 s.h.
FOR 3310	Impression and Trace Evidence Analysis	4 s.h.
FOR 3420	Firearm and Tool Mark Analysis	4 s.h.
FOR 3430	Forensic Anthropology or	
FOR 4640	Toxicology	3-4 s.h.
FOR 4620	Forensic Biology (BIO)	4 s.h.
FOR 4540	Forensic Chemistry I (CHM)	4 s.h.
FOR 4550	Forensic Chemistry II (CHM)	4 s.h.
FOR 4650	Ethics and Expert Testimony	3 s.h.
Certificate Electives (selected from):		3 s.h.
FOR 3040	Criminal Law & Procedures (CJ*) (3 s.h.)	
FOR 3110	Criminal Investigation (CJ*) (3 s.h.)	
FOR 3210	Principles of Criminology (CJ*/SOC) (3 s.h.)	
FOR 3430	Introduction to Forensic Anthropology (4 s.h.)	
FOR 4640	Toxicology (3 s.h.)	
		<u>36-37 s.h.</u>

Science and mathematics courses taken more than seven years previously may need to be repeated, at the discretion of the program director. (This policy is general across all College of Natural and Social Sciences programs.)