

Madonna University

Dual Track: Forensic Science and Criminal Justice

Dual-Subject Plans in Forensic Science with Criminal Justice

Combining these two programs makes for an extra-long bachelor degree, but careful planning makes it possible for the student who wishes to maximize career options in the most competitive areas of these fields and is willing to adopt a lengthy bachelor degree plan.

Three paths are possible for combining these subjects in one Madonna program:

The concentrated dual-track plan:

- Declare and complete a Bachelor degree in Forensic Science with either a Certificate of Achievement or a minor in Criminal Justice. These plans will require a minimum 139 s.h. of course work, assuming the most efficient planning.

The paced, two-stage plans:

EITHER

- Declare and complete a Bachelor degree in Criminal Justice *with a Chemistry minor*, (and plan to take key courses in Biology and Mathematics). Upon graduation, re-matriculate for a Post-Baccalaureate Certificate of Achievement in Forensic Science.

OR

- Declare and complete a Bachelor degree in Forensic Science. Upon graduation, re-matriculate for a Certificate of Achievement in Criminal Justice.

For all plans:

When selecting your courses to meet the **General Education goals**, you will maximize the efficiency of your plan if you choose courses from the Forensic Science major for Goals 4.A. (Mathematics), 4.C. (Biological Science), and 4.D. (Physical Science); select CJ 1020 and SOC 1010 for Goal 5.B. (Social and Societal Skills) and CJ 2350 for Goal 6.B. (National Citizenship); and consider a Goal 2 course from the Forensic Science Post-Bachelor Certificate of Achievement.

About Forensic Science

Overview

The Forensics Science major seeks to provide students with basic knowledge and laboratory skills in the biological and physical sciences that will prepare graduates for employment as forensic technicians. This program was designed with the assistance of regional crime lab supervisors to meet the qualifications needed for practitioners in this field.

Unique Features

- Liberal arts context
- Scholarly instructors available to work with the student in both the classroom and laboratory
- Eligible for accreditation by the American Academy of Forensic Sciences

Job Activities

Forensic science technicians 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, 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 substances, materials, and other evidence collected at the crime scene.

About Criminal Justice

Overview

Madonna University offers associate and bachelor degrees, as well as a major, minor, certificate of achievement, and certificate of completion in criminal justice.

The criminal justice department affords educational opportunities to pre-service and in-service career persons in law enforcement, corrections, and courts.

Program Specifics

The criminal justice program aims to develop an understanding of the social environment, an awareness of social problems and their implications, and a critical approach to living in society. It also provides the student with the ability to generalize, to make discriminating judgments, and to base responses in a given situation upon an understanding of the broader context of an individual's role.

Since the inception of the criminal justice program in 1972, over 2,100 students have gone through the program, and of that number, more than 75 of them have achieved the position of chief or director of their respective law enforcement agency.

Unique features

- Quality faculty who are practitioners in the field of criminal justice
- In-service personnel have the opportunity to establish a maximum of nine semester hours of credit for acquired knowledge, training, and field experience
- Small, personalized classes
- Classes combine pre-service and in-service students

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

For Program Information

Ellen Oliver Smith, Ph.D.
Forensic Science Program Director
Dept. of Biological & Health Sciences
College of Science and Mathematics
Madonna University
36600 Schoolcraft Road
Livonia, MI 48150-1176
(734) 432-5514
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Fax (734) 432-5393
e-mail: esmith@madonna.edu

Mr. Barry Sherman, Chair
Criminal Justice Department
College of Social Sciences
Madonna University
36600 Schoolcraft Road
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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.

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Plans of Study

Forensic Science Major (66 s.h.)

Required Major Courses:

BIO 1030	General Biology I	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4410	Molecular Biology	3 s.h.

CHM 1110	General Chemistry I	4 s.h.
CHM 1120	General Chemistry II	4 s.h.
CHM 2210	Organic Chemistry I	4 s.h.
CHM 2220	Organic Chemistry II	4 s.h.
CHM 3310	Quantitative Analysis	4 s.h.
CHM 3610	Biochemistry I	4 s.h.
CHM 4510	Instrumental Analysis	4 s.h.

FOR 1010	Intro. to Forensic Sci.	3 s.h.
FOR 3050	Criminal Procedure (CJ*)	3 s.h.
FOR 3110	Criml. Investigation (CJ*)	3 s.h.
FOR 3210	Criminology (CJ*)	3 s.h.
FOR 4620	Methods in Forensic Bio.	3 s.h.
CHM 4610	Methods in Forensic Chemistry	3 s.h.
FOR 4950	Senior Seminar	2 s.h.
ELECTIVES (see below)		<u>3 s.h.</u>
Program Total		66 s.h.

Select Electives from:

BIO 3210	General Ecology (3 s.h.)
BIO 3280	Immunology (4 s.h.)
BIO 4010	Population Genetics (FOR) (3 s.h.)
CHM 3620	Biochemistry II (4 s.h.)
CHM 4410	Physical Chemistry I (4 s.h.)
CHM 4420	Physical Chemistry II (4 s.h.)
CHM 3510	Adv. Inorganic Chem. (4 s.h.)
CJ 2650	Criminal Law (3 s.h.)
CJ 4230	Homicide Investigation (3 s.h.)
FOR 4910	Cooperative Education (1-3 s.h.)
FOR 4920	Cooperative Education (1-3 s.h.)
FOR 4930	Internship in For. Sci. (1-4 s.h.)
MTH 2520	Calc. w/Anal. Geom. II (4 s.h.)
PSY 3820	Forensic Psychology (3 s.h.)

Required Support Courses

MTH 2300	Business Calculus <i>or</i>	
MTH 2510	Calc. w/Anal. Geom. I	4-5 s.h.
MTH 2350	Probability & Statistics	4 s.h.
PHY 2530, 2540	Gen Physics I, II	<u>8 s.h.</u>
Support Total		16-17 s.h.

GRAND TOTAL 82-83 s.h.

Additional Program Requirements for Forensic Science:

- Hepatitis immunization
- Background check
- Participation in a national standardized assessment exam (e.g., American Board of Criminalists) prior to graduation.

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

Required Certificate Courses:

CJ 1020	Intro. to Criminal Justice	3 s.h.
CJ 1210	Intro. to Corrections	3 s.h.
CJ 1550	Police Process & Community Relations	3 s.h.
CJ 2350	American Judicial Process	3 s.h.
CJ 2400	Interviewing & Investigative Report Writing	3 s.h.
CJ 2650	Criminal Law	3 s.h.
CJ 3210	Principles of Criminology	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
ENG 1010	College Composition I	3 s.h.
	Major electives	<u>3 s.h.</u>
		30 s.h.

Criminal Justice Minor (21 s.h.)

Required Minor Courses:

CJ 1020	Intro. to Criminal Justice	3 s.h.
CJ 1210	Intro. to Corrections	3 s.h.
CJ 1550	Police Process & Community Relations	3 s.h.
CJ 2350	American Judicial Process	3 s.h.
CJ 2400	Interviewing & Investigative Report Writing	3 s.h.
CJ 3230	Juvenile Justice	3 s.h.
CJ	Elective **	<u>3 s.h.</u>
		21 s.h.

**Because CJ 3210 cannot be used by a student in both the FOR major and the CJ minor, a suitable CJ elective must be substituted in the minor for CJ 3210. Consult with the CJ advisor for appropriate choice and required paperwork. This rule does not apply to the CJ Certificate of Achievement. See the rule on page 39 of the 2006-2008 Bulletin, *Courses Satisfying More Than One Requirement*.

When beginning with Criminal Justice with a Chemistry minor:

Chemistry Minor for Pre-Forensic Science (24 s.h.) Required Minor Courses:

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

Biology/Mathematics/Physics Courses for Pre-Forensic Science (23-24 s.h.)

(some may be taken post-bachelor)

BIO 1030	General Biology I	4 s.h.
BIO 2260	Microbiology	4 s.h.
BIO 3010	Genetics	4 s.h.
BIO 4410	Molecular Biology	3 s.h.
MTH 2300	Business Calculus <i>or</i>	
MTH 2510	Calc. w/Anal. Geom. I	4-5 s.h.
MTH 2350	Probability & Statistics	4 s.h.
PHY 2530, 2540	Gen Physics I, II	<u>8 s.h.</u>
		31-32s.h.

See also the separate specialty profile sheets for Criminal Justice and for Forensic Science.