



AMERICAN ACADEMY OF FORENSIC SCIENCES
 410 North 21st Street • Colorado Springs • CO 80904-2712 • (719) 636-1100 • Fax (719) 636-1993

**Forensic Science Education Programs
 Accreditation Commission
 (FEPAC)**

Application for Accreditation

(FEPAC Form 5.1)

University/College: The Pennsylvania State University
 City, State: University Park, PA

Part 1: Forensic Science Program Information

Program Name: Forensic Science Program
 Bachelor Degree (BA or BS): BS
 Master Degree (MS, MSF, MSFS): N/A
 Doctoral Degree: N/A

Please specify the Department, School, College, and/or Division that offers the program: Eberly College of Science

Date Program Established: Jan. 10, 2005
 Date of First Graduate: May 19, 2007
 Number of Enrolled Students: 62
 Number of Graduates to Date: 1

Program Director Information

Program Director: Robert C. Shaler
 Title: Director and Professor of Biochemistry and Molecular Biology
 Mailing Address: 107 Whitmore Laboratory
Forensic Science Program
The Pennsylvania State University
University Park, PA 16802
 Telephone: 814-863-6758
 Fax: 814-863-8372
 E-mail: rsc26@psu.edu
 Program Web site: www.science.psu.edu/forensics

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Part 3: FEPAC Undergraduate Curriculum Worksheet**4.3.2.1 Natural Science Core Courses**

Biology for science majors:

MICRB 201/202 (Biology track); BIOL 110 (Chemistry track)

Total Semester Hours	4	Actual Semester Hours	<u>5/4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

Physics for science majors (2 courses):

1 PHYS 250 or PHYS 211

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

2 PHYS 251 or PHYS 212

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

General chemistry for science majors (2 courses):

1 CHEM 110/111

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

2 CHEM 112/113

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

Organic chemistry for science majors (2 courses):

1 CHEM 210/213

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

2 CHEM 212/213

Total Semester Hours	4	Actual Semester Hours	<u>4</u>
Laboratory Required?	Y	Provided?	<u>Y</u>

Differential and integral calculus:

1 MATH 140

Total Semester Hours	<u>3</u>	Actual Semester Hours	<u>4</u>
Laboratory Required?	<u>N</u>		

Statistics:

1 STAT 250

Total Semester Hours	<u>3</u>	Actual Semester Hours	<u>3</u>
Laboratory Required?	<u>N</u>		

4.3.2.2 Specialized Science Courses

A minimum of 12 additional semester hours are required in more advanced coursework in chemistry or biology with at least two of the classes including laboratory training.

Course Number and Name:	BMB 342 Proteins & Nucleic Acid (Biology track)
Course Number and Name:	BIOL 230W Biology of Populations (Chemistry track)
Semester Hours	<u>2/4</u>
Laboratory Required	<u>Y</u>
Laboratory Provided?	<u>Y</u>

Course Number and Name:	FRNSC 302 Forensic Biology (Biology track)
Course Number and Name:	CHEM 227 Forensic Chemistry (Chemistry track)
Semester Hours	<u>3/4</u>
Laboratory Required	<u>Y</u>
Laboratory Provided?	<u>Y</u>

Course Number and Name:	BMB 251 Mol. and Cell Biol. I (Bio Track); CHEM 425 Chromatog. and Electrochem. or 423 Anal. Chem (Chem track)
Semester Hours	<u>3/3</u>
Laboratory Required	<u>N</u>

Course Number and Name:	BIOL 222 Genetics (Biology track)
Semester Hours	<u>3</u>
Laboratory Required	<u>N</u>

Course Number and Name:	MATH 141 (Both Biology and Chemistry tracks)
Semester Hours	<u>4</u>
Laboratory Required	<u>N</u>

4.3.2.3 Forensic Science Courses

A minimum of 15 semester hours are required that cover (topics, not necessarily courses): Courtroom testimony; introduction to law; quality assurance; ethics; professional practice; background; evidence identification, collection, processing; and, survey of forensic science. Of these 15 hours, 9 semester hours are courses in forensic chemistry, forensic biology, physical methods, or microscopy with a laboratory component. Up to 6 semester hours of the laboratory component are an internship or independent study/research course(s).

Course Number and Name:	FRNSC 201W Principles of Crime Scene Investigation (both tracks)	
Semester Hours	4	Laboratory Required <u>Y</u> Laboratory Provided? <u>Y</u>
Course Number and Name:	FRNSC 301 Criminalistics IA (both tracks)	
Semester Hours	3	Laboratory Required <u>Y</u> Laboratory Provided? <u>Y</u>
Course Number and Name:	FRNSC 401W Criminalistics III (both tracks)	
Semester Hours	4	Laboratory Required <u>Y</u> Laboratory Provided? <u>Y</u>
Course Number and Name:	FRNSC 421W Forensic Molecular Biology (Biology track) FRNSC 302 Criminalistics IB (Chemistry track)	
Semester Hours	3/3	Laboratory Required <u>Y</u> Laboratory Provided? <u>Y</u>
Course Number and Name:	CHEM 427W Forensic Chemistry (Chemistry track)	
Semester Hours	4	Laboratory Required <u>Y</u> Laboratory Provided? <u>Y</u>
Course Number and Name:	FRNSC 400 Courtroom Proceedings & Testimony (both tracks)	
Semester Hours	1	Laboratory Required
Course Number and Name:	CRIM 312 Intro to Forensic Science in the Criminal Justice System (both tracks)	
Semester Hours	3	Laboratory Required
Course Number and Name:	CRIM 100 Introduction to Criminal Justice OR CRIM 113 Introduction to Law (both tracks)	
Semester Hours	3	Laboratory Required
Course Number and Name:	FRNSC 475 Forensic Science Seminar (both tracks)	
Semester Hours	1	Laboratory Required

4.3.2.4 Additional Courses

The program offers a minimum of 19 additional semester hours in courses that provide greater depth in the student's area of specialization.

Course Number and Name:	BMB 400 Molecular Biology of the Gene (Biology track) CHEM 450 Physical Chemistry (Chemistry track)	
Semester Hours	3/3	

Course Number and Name: BMB 401 General Biochemistry (Biology track)
CHEM 402 Chemistry in the Environment (Chemistry track)
Semester Hours 3/3

Course Number and Name: BMB 402 General Biochemistry II (Biology track)
CHEM 410 Inorganic Chemistry (Chemistry track)
Semester Hours 3/3

Course Number and Name: BMB 428 Physical Chem w/ Biological Applications (Both tracks)
Semester Hours 3

Course Number and Name: BMB 433 Molecular and Cellular Toxicology (Biology track)
CHEM 430 Structural Analysis of Org. Compounds (Chem track)
Semester Hours 3/3

Course Number and Name: ANTH 411 Skeletal Forensic Anthropology (Both tracks)
Semester Hours 3

Course Number and Name: ANTH 413 Molecular Forensic Anthropology (Both tracks)
Semester Hours 3

Course Number and Name: BMB 422W Advanced Genetics (Biology track)
CHEM 431 Organic and Inorganic Preparations (Chemistry track)
Semester Hours 3/3

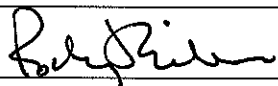
Course Number and Name: BMB 460 Human Genetics (Biology track)
CHEM 450/452 Physical Chemistry I & II (Chemistry track)
Semester Hours 3/3

Part 4: Authorization to Apply for Accreditation

The applicant institution's Chief Executive Officer or Authorized/Designated Administrator authorizes the forensic science program's application for accreditation by the Forensic Science Educational Programs Accreditation Commission (FEPAC).

Name: Rodney Erickson
Institution's Chief Executive Officer or Authorized/Designated Administrator

Title: Executive Vice President and Provost

Signature:  Date: 2/27/08

An application fee of \$500 is required with the submission of the Institutional Application Packet (FEPAC Form 5.1). Both are due to the AAFS Office on or before March 1. Checks may be made payable to the American Academy of Forensic Sciences. Credit card payment (Visa, MasterCard, American Express) is also acceptable. If paying with a credit card, please provide appropriate information and send to jhurley@aaafs.org.

If FEPAC determines that the institution is eligible for accreditation, an additional fee of \$1,000 is required with the submission of the Self-Study Report.