

# BACHELOR OF SCIENCE IN APPLIED SCIENCE IN FORENSIC SCIENCE

A Bachelor of Science in Applied Science degree in Forensic Science requires a minimum of 121 semester hours. The program is designed to be rigorous and multi-disciplinary and allows for fewer electives in lower level courses but an increased flexibility in upper-division coursework.

A minor is intended to contrast with or deepen a major or General Education. Forensic Science is an interdisciplinary major. Courses that are required for, and count toward, the Forensic Science major cannot be counted toward a minor.

COURSE	TITLE	S.H.
<b>General Education Requirements</b>		
Core Competencies		
ENGL 1550	Writing 1	3
ENGL 1551	Writing 2	3
CMST 1545	Communication Foundations	3
MATH 1571	Calculus 1	4
MATH 1572	Calculus 2	4
Natural Science (2 courses, 1 with lab)		
BIOL 2601 & 2601L	General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory	4
BIOL 2602 & 2602L	General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory	4
Arts and Humanities 6		
Social Sciences		
CJFS 1500	Introduction to Criminal Justice	3
ANTH 1500	Introduction to Anthropology	3
Social and Personal Awareness 6		
<b>Core Requirements (65 s.h.)</b>		
<b>Chemistry</b>		
CHEM 1515 & 1515L	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHEM 1516 & 1516L	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHEM 3719 & 3719L	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
CHEM 3720 & 3720L	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
CHEM 2604 & 2604L	Quantitative Analysis and Quantitative Analysis Laboratory	5
<b>Additional Biology</b>		
BIOL 3721	Genetics	3
<b>Physics</b>		
PHYS 2610 & 2610L	General Physics 1 and General Physics laboratory 1	5
PHYS 2611 & 2611L	General Physics 2 and General Physics laboratory 2	5
<b>Statistics</b>		
STAT 3717	Statistical Methods	4
<b>Criminal Justice and Forensic Sciences</b>		
CJFS 1510	Survey of Forensic Sciences	3
CJFS 2602	Criminal Courts	3

CJFS 3714 & 3714L	Forensic Science: Crime Scene Investigation and Forensic Science: Crime Scene Investigation Laboratory	3
CJFS 3716 & 3716L	Forensic Science Evidence Analysis and Forensic Science Evidence Analysis Laboratory	3
CJFS 3700	Forensic Fire and Explosives Investigation	3
CJFS 4850	Special Topics in Criminal Justice	3
CJFS 4807	Criminal Justice Internship	3-12
CJFS 5814	Practice and Ethics in Forensic Science	3

## Concentrations (Pick One)

### CHEMISTRY (Select at least 13 s.h.)

CHEM 3729	Inorganic Chemistry	3
CHEM 3739 & 3739L	Physical Chemistry 1 and Physical Chemistry 1 Laboratory	4
CHEM 3740 & 3740L	Physical Chemistry 2 and Physical Chemistry 2 Laboratory	4
CHEM 3764	Chemical Toxicology	3
CHEM 3785 & 3785L	Biochemistry 1 and Biochemistry Laboratory	4
CHEM 3786	Biochemistry 2	3
CHEM 4891	Special Topics	1-3
CHEM 5804 & 5804L	Chemical Instrumentation and Chemical Instrumentation Laboratory	4
CHEM 5821	Intermediate Organic Chemistry	3
CHEM 5822 & 5822L	Advanced Organic Laboratory and Advanced Organic Laboratory	4

### BIOLOGY (Select at least 13 s.h.)

BIOL 3702 & 3702L	Microbiology and Microbiology Laboratory	4
BIOL 3703 & 3703L	Clinical Immunology and Clinical Immunology Laboratory	4
BIOL 3705 & 3705L	Introduction to Human Gross Anatomy and Introduction to Human Gross Anatomy Laboratory	4
BIOL 3711	Cell Biology: Fine Structure	3
BIOL 3716	Molecular Microbiology 1: Nucleic Acids	4
BIOL 3730 & 3730L	Human Physiology and Human Physiology Laboratory	5
BIOL 4800 & 4800L	Bioinformatics and Bioinformatics Laboratory	4
BIOL 4839	Selected Topics in Physiology	1
CHEM 3785 & 3785L	Biochemistry 1 and Biochemistry Laboratory	4
CHEM 3786	Biochemistry 2	3
BIOL 4850	Problems in Biology	1-3

### OTHER OPTION, CHEMISTRY / BIOLOGY

BIOL 4890 & 4890L	Molecular Genetics and Molecular Genetics Laboratory	4
BIOL 5827	Gene Manipulation	2
CJFS 4850	Special Topics in Criminal Justice	3-5
CHEM 3719R	Organic Chemistry Recitation 1	1
CHEM 3720R	Organic Chemistry Recitation 2	1
PHLT 3731	Drug Use and Abuse	3
PHLT 5810	Agents of Mass Casualty	3
PHLT 5812	Crisis Management in Public Health	3

### ANTHROPOLOGY (Select at least 16 s.h.)

ANTH 2600	Human Osteology	4
ANTH 3702	Archaeology	3
ANTH 3703	Biological Anthropology	3
ANTH 3778	Archaeological Techniques	1-9

ANTH 3779	Fieldwork in Historical and Industrial Sites Archaeology	3
ANTH 3780	Forensic Anthropology 1	4
ANTH 4800	Undergraduate Research	1-2
ANTH 4881	Forensic Anthropology 2	4
ANTH 4883	Case Studies in Forensic Anthropology	3
ANTH 4891	Advanced Topics in Biological Anthropology	3
BIOL 3705 & 3705L	Introduction to Human Gross Anatomy and Introduction to Human Gross Anatomy Laboratory	4
GEOG 5812	Global Positioning Systems and GIScience	3

There may be other courses that qualify for upper division electives, but you must discuss these options with an academic advisor and get pre-approved.

Course	Title	S.H.
<b>Year 1</b>		
<b>Fall</b>		
ENGL 1550	Writing 1	3
CJFS 1510	Survey of Forensic Sciences	3
CJFS 1500	Introduction to Criminal Justice	3
CHEM 1515 & 1515L	General Chemistry 1 and General Chemistry 1 Laboratory	4
Arts and Humanities		3
<b>Semester Hours</b>		<b>16</b>

<b>Spring</b>		
ENGL 1551	Writing 2	3
CJFS 2602	Criminal Courts	3
ANTH 1500	Introduction to Anthropology	3
CHEM 1516 & 1516L	General Chemistry 2 and General Chemistry 2 Laboratory	4
Social and Personal Awareness		3
<b>Semester Hours</b>		<b>16</b>

<b>Year 2</b>		
<b>Fall</b>		
CMST 1545	Communication Foundations	3
CJFS 3714	Forensic Science: Crime Scene Investigation	2
CJFS 3714L	Forensic Science: Crime Scene Investigation Laboratory	1
MATH 1571	Calculus 1	4
CHEM 3719 & 3719L	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
<b>Semester Hours</b>		<b>14</b>

<b>Spring</b>		
CJFS 3700	Forensic Fire and Explosives Investigation	3
CJFS 3716	Forensic Science Evidence Analysis	2
CJFS 3716L	Forensic Science Evidence Analysis Laboratory	1
MATH 1572	Calculus 2	4
CHEM 3720 & 3720L	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
<b>Semester Hours</b>		<b>14</b>

<b>Year 3</b>		
<b>Fall</b>		
BIOL 2601 & 2601L	General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory	4
CJFS 4850	Special Topics in Criminal Justice	3
STAT 3717	Statistical Methods	4

Elective 3700-Level	5
<b>Semester Hours</b>	
<b>16</b>	

<b>Spring</b>		
BIOL 2602 & 2602L	General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory	4
CHEM 2604 & 2604L	Quantitative Analysis and Quantitative Analysis Laboratory	5
Arts and Humanities		3
Elective 3700-Level	4	
<b>Semester Hours</b>		<b>16</b>

<b>Year 4</b>		
<b>Fall</b>		
CJFS 4807	Criminal Justice Internship	6
PHYS 2610	General Physics 1	4
PHYS 2610L	General Physics laboratory 1	1
Social and Personal Awareness		3
Elective 3700-Level	2	
<b>Semester Hours</b>		<b>16</b>

<b>Spring</b>		
CJFS 5814	Practice and Ethics in Forensic Science	3
PHYS 2611	General Physics 2	4
PHYS 2611L	General Physics laboratory 2	1
BIOL 3721	Genetics	3
Elective 3700-Level	2	
<b>Semester Hours</b>		<b>13</b>

**Total Semester Hours 121**

Request a Graduation Evaluation after you have completed 80-85 s.h. from the BCHHS Advising/Deans Office, 2104 Cushwa Hall, 330-941-3221.