

**Program Map: Forensic Science Concentration in Biology**  
**Department of Chemistry and Forensic Science, College of Science and Technology**

<b>Name:</b>	<b>SID:</b>	<b>Advisor:</b>
<b>Start Date:</b>	<b>Catalog Date:</b>	<b>Expected Graduation Date:</b>

Freshman	Fall Courses			Completed	Spring Courses				Notes : Lists IMPACT Options here
	Course	Name	Hours		Course	Name	Hours	Completed	
	ENGL 1101 Area C	Composition I Pre-requisite: None	3		ENGL 1102 Area C	Composition II Pre-requisite: ENGL 1101	3		*this course is meant to fulfill the Area IMPACT (indicate course and which requirement it meets) **this course is meant to fulfill the Area F requirement  Accumulate maximum of 30 semester hours in your Freshmen Year.
	MATH 1113* Area M	Pre-Calculus Pre-requisite: MATH 1111	3		MATH 2101* Field of Study Area	Calculus I Pre-requisite: MATH 1113	3		
	FSCI 1101 Area T	Intro to Molecular Forensic Sci Pre-requisite: None	3		CHEM 1211* Area T	Principles of Chemistry I Pre-requisite: placement test	3		
	BIOL 1107* Area T	Principles of Biology I Pre-requisite: None	3		CHEM 1211L* Area T Lab	Principles of Chemistry I Lab Pre-requisite: placement test	1		
	BIOL 1107L* Area T Lab	Principles of Biology I Lab Pre-requisite: None	1		POLS 1101 Area P	American Government Pre-requisite: None	3		
	COST 1103 Field of Study Area	COST First Year Experience Pre-requisite: None	2		HUMN 1201 Area I	Critical Thinking & Communication	3		
	Suggested Summer Course Options						Total		
	Students Options for Summer Courses as available								

Sophomore	Fall Courses				Spring Courses				Notes: Accumulate maximum of 60 semester hours in your Sophomore Year.  Students must take FSCI 3301/3301L to prevent delay in graduation
	Course	Name	Hours	Completed	Course	Name	Hours	Completed	
	FSCI 3301* Major	Principles of Forensic Science Pre-requisite: CHEM 1211 OR FSCI 1101	3		PHYS 1112K* or PHYS 2212K* Area T Lab	Intro to Physics or Principles of Physics Pre-requisite: MATH 1113 or MATH 2101	4		
	FSCI 3301L* Major Lab	Principles of Forensic Science Pre-requisite: CHEM 1211 OR FSCI 1101	1		CHEM 2501* Area T	Organic Chemistry I Pre-requisite: CEHM 1212/1212L	3		
	PHYS 1111K* or PHYS 2211K* Area T Lab	Intro to Physics or Principles of Physics Pre-requisite: MATH 1113; MATH 2101	4		CHEM 2501L* Area T Lab	Organic Chemistry I Lab Pre-requisite: CEHM 1212/1212L	1		
	CHEM 1212* Major	Principles of Chemistry II Pre-requisite: CHEM 1211/1211L	3		MATH 2111* Major	Calculus II Pre-requisite: MATHJ 2101	4		
	CHEM 1212L* Major	Principles of Chemistry II Lab Pre-requisite: CHEM 1211/1211L	1		AFRS 1501 Area I	Survey of the African American Experience Pre-requisite: None	2		
	Area S Option	Pre-requisite: None	3						
	Suggested Summer Course Options							Total	

Junior	Fall Courses				Spring Courses				Notes
	Course	Name	Hours	Completed	Course	Name	Hours	Completed	
	BIOL 1108* Area T	Principles of Biology II Pre-requisite: BIOL 1107/1107L	3		FSCI 4101 Major	Personal ID & DNA Analysis Pre-requisite:	3		Apply for graduation. Accumulate maximum of 90 semester hours in your Junior Year.
	BIOL 1108L* Area T Lab	Principles of Biology II Lab Pre-requisite: BIOL 1107L	1		FSCI 4101L Major	Personal ID & DNA Analysis Lab Pre-requisite:	1		
	FSCI 3401* Major	Research or Internship Pre-requisite: FSCI 3301	3		BIOL 3201 Major	Cell Biology Pre-requisite: BIOL 1108	3		
	CHEM 2511* Major	Organic Chemistry II Pre-requisite: CHEM 2501	3		BIOL 3201L Major	Cell Biology Lab Pre-requisite: BIOL 1108	1		Students are encouraged to obtain an internship, which can be used for Major Technical Elective Credit.
	CHEM 2511L* Major Lab	Organic Chemistry II Lab Pre-requisite: CHEM 2501 L	1		FSCI ELEC* Major	Major Elective Pre-requisite: CHEM 310K	4		
	HIST 2111 or HIST 2112 Area P	U.S. History Pre-requisite: Varies	3		Area S Option	Pre-requisite: None	3		
	Area A Option	Pre-requisite: None	3						
	Suggested Summer Course Options							Total	

Senior	Fall Courses				Spring Courses				Notes	
	Course	Name	Hours	Completed	Course	Name	Hours	Completed		
	FSCI 4401* Major	Crime Scene I Pre-requisite: FSCI 3301	2		FSCI 4901 Major	Forensic Science Seminar Pre-requisite: FSCI 3301	1			Student must take the exit exam and interview.
	FSCI 4201* Major	Drug Abuse & Drug Analysis Pre-requisite: CHEM 2511; BIOL 1108	3		FSCI ELECTIVE* Major		4			Does this Degree Program Require a Minor? <u>No</u>
	FSCI 4201L* Major	Drug Abuse & Drug Analysis Lab Pre-requisite:	1		FSCI 4402* Major	Crime Scene II Pre-requisite: FSCI 4401	2			Total Hours Required for this Degree Program: <u>120</u>
	MATH 1401* Major	Elementary Statistics Pre-requisite: MATH 1113	3		BIOL 3321 Major	Microbiology Pre-requisite: BIOL 1108	3			
	BIOL 3301* Major	Genetics Pre-requisite: BIOL 1108	3		BIOL 3321 Major	Microbiology Pre-requisite: BIOL 1108	1			
	BIOL 3301L* Major	Genetics Lab Pre-requisite: BIOL 1108	1		Area A Option	Humanities & Fine Arts	3			
	FSCI ELEC Major		4							

**Program Map: Forensic Science Concentration in Biology**  
**Department of Chemistry and Forensic Science, College of Science and Technology**

**Core Curriculum (Programmed Preferred Options in Bold)**

**Area I – Institutional Options 5 hrs**

- i. AFRS 1501 Survey of African American Experience 2 hrs
1. Select one of the following:
  - i. HUMN 1201 Critical Thinking & Communication 3 hrs
  - ii. DATA 1501 Introduction to Data Science 3 hrs
  - iii. POLS 2401 Global Issues 3 hrs
  - iv. AFRS 2000 Introduction to Africana Studies 3 hrs

**Area M – Mathematics & Quantitative Skills 3 hrs**

Select one of the following:

- i. MATH 1001 - Quantitative Reasoning 3hrs
- ii. MATH 1111 - College Algebra 3hrs
- iii. MATH 1401 - Elementary Statistics 3hrs
- iv. **MATH 1113 - Pre-Calculus 3hrs**

**Area P – Social Science 6 hrs**

- i. POLS 1101 American Government 3 hrs
1. Select one of the following:
  - i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
  - ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs

**Area A – Humanities/Fine Arts, and Ethics 6 hrs**

Select two of the following:

- i. ENGL 2111 World Literature I 3 hrs
- ii. ENGL 2112 World Literature II 3 hrs
- iii. ENGL 2121 British Literature I 3 hrs
- iv. ENGL 2122 British Literature II 3 hrs
- v. ENGL 2131 American Literature I 3 hrs
- vi. ENGL 2132 American Literature II 3 hrs
- vii. ENGL 2140 - Introduction to African American Literature 3hrs
- viii. ENGL 2521 Introduction to Film 3hrs
- ix. PHIL 2010 Introduction to Philosophy 3 hrs
- x. PHIL 2030 Introduction to Ethics 3 hrs
- xi. ARTS 1101 Introduction to Visual Art 3 hrs
- xii. DNCE 2010 Dance Appreciation 3 hrs
- xiii. ENGL 2521 Introduction to Film 3 hrs
- xiv. HUMN 2011 Humanities 3 hrs
- xv. MUSC 1101 Introduction to Music 3 hrs
- xvi. THEA 2101 Introduction to Theatre 3 hrs

**Area C – Communicating in Writing 6 hrs**

- i. ENGL 1101 English Composition I 3 hrs
- ii. ENGL 1102 English Composition II 3hrs

**Area T – Natural Sciences, Math & Technology 10 hrs**

1. Select one of the following:
  - i. **FSCI 1101 Intro to Molecular Forensic Sci 3 hrs**
  - ii. CSCI 1130 Computer Applications 3 hrs
  - iii. CSCI 1301 Computer Science I 3 hrs
  - iv. CILS 1130 - Introduction to Computer Applications 3hrs
  - v. ASTR 1000 - Introduction to the Universe 3hrs
  - vi. ISCI 1101 - Integrated Science I 3hrs
  - vii. BIOL 1103 - General Biology 3hrs
  - viii. BIOL 1104 - Human Biology 3hrs
  - ix. DATA 1501 Introduction to Data Science 3 hrs
  - x. ENVS 1140 Environmental Issues 3 hrs
  - xi. FSCI 1101 - Introduction to Molecular Forensic Science 3hrs
  - xii. MATH 1111 - College Algebra 3hrs
  - xiii. MATH 1401 - Elementary Statistics 3 hrs
  - xiv. MATH 1113 - Pre-Calculus 3 hrs
2. Select two of the following lab sciences:
  - i. BIOL 1103/1103L General Biology 4 hrs
  - ii. BIOL 1104/1104L Human Biology 4 hrs
  - iii. CHEM 1101K - Introductory Chemistry 4hrs
  - iv. ISCI 1111K - Integrated Science II 4hrs
  - v. MSCI 1501K - Introduction to Marine Biology 4hrs
  - vi. PHSC 1011K - Physical Science I 4hrs
  - vii. PHSC 1012K - Physical Science II 4hrs
  - viii. **PHYS 1111K Introductory Physics I 4 hrs**
  - ix. BIOL 1107/1107L Principles of Biology I 4 hrs
  - x. BIOL 1108/1108L Principles of Biology II 4 hrs
  - xi. CHEM 1211/1211L Principles of Chemistry I 4 hrs
  - xii. CHEM 1212/1212L Principles of Chemistry II 4 hrs

- xiii. CISM 1130 Computer Applications 3 hrs
- xiv. ENVS 1140 Environmental Issues 3 hrs
- xv. BIOL 1107/1107L Principles of Biology I 4 hrs
- xvi. BIOL 1108/1108L Principles of Biology II 4 hrs
- xvii. CHEM 1211/1211L Principles of Chemistry 4 hrs
- xviii. CHEM 1212/1212L Principles of Chemistry 4 hrs
- xix. **PHYS 1112K Introductory Physics II 4 hrs**
- xx. **PHYS 2211K Principles of Physics I 4 hrs**
- xxi. **PHYS 2212K Principles of Physics II 4 hrs**

**Area S – Social Science 6 hrs**

Select two of the following:

- i. AFRS 2000 Introduction to Africana Studies 3 hrs
- ii. ANTH 1101 Introduction to Anthropology 3 hrs
- iii. ECON 2105 Principles of Macro-Economics 3 hrs
- iv. GEOG 1101 Introduction to Human Geography 3 hrs
- v. HIST 1111 World Hist to Early Modern Times 3 hrs
- vi. HIST 1112 World History Early Modern Times to Pres 3 hrs
- vii. POLS 2401 Global Issues 3 hrs
- viii. PSYC 1101 Intro to General Psychology 3 hrs
- ix. PSYC 2103 Human Growth & Development 3 hrs
- x. SOCI 1101 Introduction to Sociology 3 hrs
- xi. SOCI 1160 Social Problems 3 hrs

**Forensic Science Major Electives (9 HRS)**

Select from the following:

ARTS 3212	Forensic Photography	3 credits
BIOL 4201	Toxicology	3 credits
BIOL 4301/4301L	Biotechnology an Overview / Lab	3/1 credits
BIOL 4411/4411L	Genetic Engineering Technology I / Lab	3/1 credits
BIOL 4412/4412L	Genetic Engineering Technology II / Lab	3/1 credits
CHEM 3101K	Analytical Chemistry	4 credits
CHEM 3111K	Instrumental Analysis	4 credits
CHEM 3411K	Physical Chemistry II	4 credits
CHEM 3522L	Advanced Synthesis Laboratory	2 credits
CHEM 3801	Biochemistry	3 credits
CHEM 4211	Advanced Inorganic Chemistry	3 credits
CHEM 4531	Advanced Organic Chemistry	3 credits
FSCI 3001	Computer Forensics	3 credits
FSCI 3201	Forensic Evidence in Law Enforcement	3 credits
FSCI 4501	Forensic Evidence – Case Studies	3 credits

**Forensic Science Concentration in Biology**

The Bachelor of Science degree in Forensic Science is a four-year program with two concentrations: Forensic Chemistry and Forensic Biology. The development of a Forensic Science degree program is interdisciplinary and relies strongly on the incorporation of courses in the College of Science and Technology and the College of Liberal Arts and Social Sciences. Forensic Science spans a wide spectrum of scientific disciplines including chemistry, biology, odontology, pathology, criminalistics, engineering, psychiatry, toxicology, computer science and behavioral sciences, to mention a few. This program is designed to produce well-informed graduates with the option to further their scientific interests in graduate school as well as pursue a career in law enforcement. The major tracks are summarized below:

Forensic Biology - Prepare students for positions in local, state, federal and private forensic science laboratories as deoxyribonucleic acid (DNA) analysts or applicable biological science. This concentration will also prepare students for graduate work in Forensic Science or Biology disciplines.