

# BS in Forensic Science

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The College of Science offers two undergraduate degrees in forensic science: Forensic Biology and Forensic Chemistry. To declare a major in forensic science, students must have an overall GPA of at least 2.5 and a math/science GPA of at least 2.5. Both degrees are very rigorous and contain at least 86 semester hours in science and mathematics. Many forensic scientists work in crime laboratories. For example, a forensic biologist usually specializes in DNA analysis or continues to medical school to pursue a career as a medical examiner; a forensic chemist analyzes non-biological trace evidence found at crime scenes in order to identify unknown materials and match samples to known substances.

In order to find employment in the forensic science field, you need a master's degree. At the present time, UTEP does not offer a graduate degree in forensic science; however, a master's degree in Biology with an emphasis on DNA analysis or a master's in chemistry with an emphasis on gas chromatography and spectrophotometry will prepare you for work in a forensic lab. A GPA of at least 3.0 is required for graduate school.

## Marketable Skills

### Forensic Biologists:[i]

Forensic biologists utilize scientific methodology and analyses to investigate evidence such as human, animal or plant remains, DNA traces, physical material like clothing fibers, and other material that can be helpful to legal investigations. Forensic biologists have degrees in either forensic science or biological sciences with a focus on forensics, and they may work for law enforcement or government agencies, private and consulting companies that specialize in laboratory analyses, or at universities.

Training for forensic biologists, depending on the specialty, includes university courses in biology (including entomology and botany), chemistry, human and animal pathology, biochemistry, and DNA analysis techniques. In order to interact with and advise law enforcement officials, additional courses in the areas of mathematics, physics, and criminal justice are often included in forensic biologist training at the university level. Additional training may involve the collection of evidence at mock crime scenes, and subsequent analyses in the laboratory. These analyses may include analytical techniques for the identification of blood and bodily secretions, DNA, pathology, and other forms of potential evidence. Such training gives forensic biologists a basic understanding of scientific principles and standard practices for laboratory documentation with appropriate methodology. Courses in criminal justice instill a basic understanding of the judicial process, including criminal trials, and standard procedures for the handling and analysis of evidence.

Once these analyses are completed, the forensic biologist will write and submit technical reports (albeit in laymen's terms) of their findings to law enforcement officers or courts of law. Due to a recent ruling from the United States Supreme Court, attorneys representing individuals accused of a crime have the right to cross-examine the individual who conducted forensic tests of relevant evidence. And thus, forensic biologists will often be required to testify as an expert witness in a court of law about the findings in their reports.

### Forensic Chemist:[ii]

Forensic chemists analyze non-biological trace evidence found at crime scenes in order to identify unknown materials and match samples to known substances. They also analyze drugs/controlled substances taken from scenes and people in order to identify and sometimes quantify these materials.

A strong background in chemistry and instrumental analysis and a good grounding in criminalistics are vital. An undergraduate degree in forensic science or a natural science is required for work in crime laboratories, with extensive coursework in mathematics, chemistry, and biology. More advanced positions, such as lab managers and supervisors, require a master's degree. A Ph.D. is often *preferred* for advancement to positions such as lab director.

Those interested in working with trace evidence, such as glass, hairs, and gunshot residue, should focus on instrumentation skills and take courses in geology, soil chemistry, and materials science. If forensic biology, such as DNA analysis, is preferred, take microbiology, genetics, and biochemistry courses. Those interested in the toxicological aspects of this work, such as obtaining and interpreting toxicology reports, should study physiology, biochemistry, and chemistry.

There are jobs with a BS in Forensic Science; however, they run around \$42,000. With a graduate degree and experience, you can almost double this salary.

To be successful in this field you must have a strong background in science and mathematics and be able to communicate because you may be an expert witness in a jury trial. Most of all you need to be analytical.

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[i] (p. ) American Academy of Forensic Sciences (AAFS) <http://aafs.org/> or

[ii] (p. ) American Academy of Forensic Sciences (AAFS) <http://aafs.org/>

## Degree Plans

### BS in Forensic Science with a concentration in Forensic Biology

Forensic biologists utilize scientific methodology and analyses to investigate evidence such as human, animal or plant remains, DNA traces, physical material like clothing fibers, and other material that can be helpful to legal investigations. Forensic biologists have degrees in either forensic science or biological sciences with a focus on forensics, and they may work for law enforcement or government agencies, private and consulting companies that specialize in laboratory analyses, or at universities.

Training for forensic biologists, depending on the specialty, includes university courses in biology (including entomology and botany), chemistry, human and animal pathology, biochemistry, and DNA analysis techniques. In order to interact with and advise law enforcement officials, additional courses in the areas of mathematics, physics, and criminal justice are often included in forensic biologist training at the university level. Additional training may involve collection of evidence at mock crime scenes, and subsequent analyses in the laboratory. These analyses may include analytical techniques for the identification of blood and bodily secretions, DNA, pathology, and other forms of potential evidence. Such training gives forensic biologists a basic understanding of scientific principles, and standard practices for laboratory documentation with appropriate methodology. Courses in criminal justice instill a basic understanding of the judicial process, including criminal trials, and standard procedures for the handling and analysis of evidence.

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Code	Title	Hours
<b>Designated Core</b>		
**Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major		
All courses listed below are required:		
<b>Social and Behavioral Sciences</b>		
PSYC 1301	Introduction to Psychology	
<b>Language, Philosophy and Culture</b>		
PHIL 2306	Ethics	
<b>Mathematics</b>		
Required:		
MATH 1411	Calculus I	
<b>Life and Physical Sciences</b>		
Select one of the following sequences:		
PHYS 1403 & PHYS 1404	General Physics I and General Physics II	
Or		
PHYS 2420 & PHYS 2421	Introductory Mechanics and Introductory Electromagnetism	
<b>University Core Curriculum</b>		<b>42</b>
<b>Forensic Science Major <sup>C</sup></b>		
Required:		
BIOL 1107	Topics in Study of Life I	1
BIOL 1108	Organismal Biology Laboratory	1
BIOL 1305	General Biology	3
BIOL 1306	Organismal Biology	3
CHEM 1105	Laboratory for CHEM 1305	1
CHEM 1106	Laboratory for CHEM 1306	1
CHEM 1305	General Chemistry	3
CHEM 1306	General Chemistry	3
CHEM 2124	Lab for Organic Chemistry 2324	1
CHEM 2125	Lab for Organic Chemistry 2325	1
CHEM 2324	Organic Chemistry	3
CHEM 2325	Organic Chemistry	3
CRIJ 1301	Intro to Criminal Justice I	3
STAT 2480	Elementary Statistical Methods	4

**Specialized Science Courses <sup>C</sup>**

Select twelve hours from the following: 12

BIOL 3115	Molecular Cell Biol Laboratory
BIOL 3314	Molecular Cell Biology
BIOL 3320	Genetics
BIOL 3351	Toxicology
BIOL 4395	Topics in Biology
CHEM 3310	Analytical Chemistry
CHEM 3330	Biochem I:Struc & Function
CHEM 3332	Biochem II: Metabol & Bioenerg
CHEM 3351	Physical Chemistry I
CHEM 3352	Physical Chemistry II
CHEM 4211	Instrumental Meths Analyt Chem
CHEM 4212	Lab for Chemistry 4211
CHEM 4365	Inorganic Chemistry
MICR 2141	Gen Microbiology Laboratory
MICR 2340	General Microbiology

**Additional Coursework <sup>C</sup>**

Select twelve hours from the following: 12

BIOL 3351	Toxicology
BIOL 3357	Forensic DNA Analysis
BIOL 3375	Forensic Pathobiology
FORS 3370	Forensic Science I
FORS 3371	Forensic Biology

Or any forensic biology/chemistry course with a lab component. Forensic science internships or independent studies/ research may be used to fulfill up to six hours of this requirement. <sup>C</sup>

**Select one of the following:** 3

BIOL 3351	Toxicology
BIOL 3357	Forensic DNA Analysis
BIOL 3375	Forensic Pathobiology
FORS 3370	Forensic Science I
FORS 3371	Forensic Biology

**Forensic Biology Track <sup>C</sup>****Concentration**

Select twenty additional hours of upper-division Biology, Microbiology and/or CBCH courses from the following: 20

BIOL 3115	Molecular Cell Biol Laboratory
BIOL 3117	Ecology Laboratory
BIOL 3192	Professional Development Sem.
BIOL 3314	Molecular Cell Biology
BIOL 3316	Ecology
BIOL 3320	Genetics
BIOL 3321	Evolution
BIOL 3342	Plants and People
BIOL 3351	Toxicology
BIOL 3357	Forensic DNA Analysis
BIOL 3375	Forensic Pathobiology
BIOL 4195	Advanced Methods in Biology
BIOL 4198	Special Problems
BIOL 4225	Field Biology
BIOL 4298	Special Problems
BIOL 4319	G Protein-Coupled Recept Biol
BIOL 4320	Endocrinology

BIOL 4321	Developmental Biology
BIOL 4324	Genetic, Env & Evol - Anim Beh
BIOL 4325	Field Biology
BIOL 4327	Animal Ecology
BIOL 4330	Cancer Biology
BIOL 4370	History/Philosophy-Biology
BIOL 4388	Mammalian Physiology
BIOL 4390	Biological Practicum
BIOL 4395	Topics in Biology
BIOL 4398	Special Problems
CBCH 3316	Membrane Biology
CBCH 4310	Techniques in Mol Biochem
CBCH 4320	Adv Topics in Mil Biochem
CBCH 4414	Cellular Biochemistry
MICR 3144	Pathogenic Microbiology Lab
MICR 3146	Microbial Physiology Lab
MICR 3343	Pathogenic Microbiology
MICR 3345	Microbial Physiology
MICR 4154	Immunology Laboratory
MICR 4329	Epidemiology
MICR 4351	General Virology
MICR 4353	Immunology
MICR 4355	Medical Mycology

**Upper Division Requirement<sup>C</sup>**

A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

C. Grades on all Courses must be C or better

**Total Hours****120****BS in Forensic Science with a concentration in Forensic Chemistry**

Forensic chemists analyze non-biological trace evidence found at crime scenes in order to identify unknown materials and match samples to known substances. They also analyze drugs/controlled substances taken from scenes and people in order to identify and sometimes quantify these materials.

A strong background in chemistry and instrumental analysis and a good grounding in criminalistics are vital. An undergraduate degree in forensic science or a natural science is required for work in crime laboratories, with extensive coursework in mathematics, chemistry, and biology. More advanced positions, such as lab managers and supervisors, require a master's degree. A Ph.D. is often *preferred* for advancement to positions such as lab director.

Those interested in working with trace evidence, such as glass, hairs, and gunshot residue, should focus on instrumentation skills and take courses in geology, soil chemistry, and materials science. If forensic biology, such as DNA analysis, is preferred, take microbiology, genetics, and biochemistry courses. Those interested in the toxicological aspects of this work, such as obtaining and interpreting toxicology reports, should study physiology, biochemistry, and chemistry.

Code	Title	Hours
<b>Designated Core</b>		
**Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major. All courses listed within this degree area require a grade of C or better for successful completion.		
All courses listed below are required:		
<b>Language, Philosophy and Culture</b>		
PHIL 2306	Ethics	
<b>Social and Behavioral Sciences</b>		
PSYC 1301	Introduction to Psychology	
<b>Life and Physical Sciences</b>		
PHYS 2420 & PHYS 2421	Introductory Mechanics and Introductory Electromagnetism	
<b>Mathematics</b>		

MATH 1411 Calculus I

**University Core Curriculum 42**

NOTE: The department may make specific suggestions for courses which are most applicable towards your major. Psychology and Criminal Justice majors and minors are required to take MATH 1320 or a higher level Calculus course. Business majors are required to take MATH 1320 or a higher level Calculus course. NOTE: All courses require a C or better

**Forensic Science Major<sup>C</sup>****Required: 8-10**

CHEM 2124 & CHEM 2324	Lab for Organic Chemistry 2324 and Organic Chemistry
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AND

CHEM 2125 & CHEM 2325	Lab for Organic Chemistry 2325 and Organic Chemistry
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OR

CHEM 2221 & CHEM 2321	Organic Chemistry I Lab and Organic Chemistry I
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AND

CHEM 2222 & CHEM 2322	Organic Chemistry II Lab and Organic Chemistry II
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**Required:**

BIOL 1107	Topics in Study of Life I	1
BIOL 1108	Organismal Biology Laboratory	1
BIOL 1305	General Biology	3
BIOL 1306	Organismal Biology	3
CHEM 1105	Laboratory for CHEM 1305	1
CHEM 1106	Laboratory for CHEM 1306	1
CHEM 1305	General Chemistry	3
CHEM 1306	General Chemistry	3
CRIJ 1301	Intro to Criminal Justice I	3
STAT 2480	Elementary Statistical Methods	4

**Specialized Science Courses<sup>C</sup>**

Select twelve hours from the following: 12

BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory
BIOL 3320	Genetics
BIOL 3351	Toxicology
BIOL 4395	Topics in Biology
CHEM 3110	Lab for Chemistry 3310
CHEM 3151	Lab for Chemistry 3351
CHEM 3310	Analytical Chemistry
CHEM 3152	Lab for Chemistry 3352
CHEM 3330	Biochem I: Struc & Function
CHEM 3332	Biochem II: Metabol & Bioenerg
CHEM 3351	Physical Chemistry I
CHEM 3352	Physical Chemistry II
CHEM 4211 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211
CHEM 4365	Inorganic Chemistry
MICR 2141 & MICR 2340	Gen Microbiology Laboratory and General Microbiology

**Additional Coursework<sup>C</sup>**

Select twelve hours from the following: 12

BIOL 3351	Toxicology
BIOL 3357	Forensic DNA Analysis
BIOL 3375	Forensic Pathobiology

FORS 3370	Forensic Science I
FORS 3371	Forensic Biology

or any forensic biology/ chemistry course with a lab component, forensic science internships or independent studies/ research may be used to fulfill this requirement.

### Forensic Chemistry Track <sup>C</sup>

#### Concentration

Select twenty additional hours of upper-division Chemistry: 20

CHEM 3110	Lab for Chemistry 3310
CHEM 3131	Lab for Chemistry
CHEM 3151	Lab for Chemistry 3351
CHEM 3152	Lab for Chemistry 3352
CHEM 3301	Molecular Modeling & Chem Info
CHEM 3310	Analytical Chemistry
CHEM 3330	Biochem I: Struc & Function
CHEM 3332	Biochem II: Metabol & Bioenerg
CHEM 3351	Physical Chemistry I
CHEM 3352	Physical Chemistry II
CHEM 4134	Structural Biochemistry Lab
CHEM 4165	Inorganic Chemistry Lab
CHEM 4176	Introduction to Research
CHEM 4211	Instrumental Meths Analyt Chem
CHEM 4212	Lab for Chemistry 4211
CHEM 4328	Advanced Topics Organic Chem
CHEM 4334	Structural Biochemistry
CHEM 4335	Biophysical Chemistry
CHEM 4362	Structure of Matter
CHEM 4365	Inorganic Chemistry
CHEM 4376	Introduction to Research

### Upper Division Requirement <sup>C</sup>

A total of thirty-seven hours of upper division coursework is required for all Bachelor of Science degrees.

C. Grades on all Courses must be C or better

## University Core Curriculum

NOTE: The department may make specific suggestions for courses which are most applicable towards your major.

**Psychology and Criminal Justice majors and minors** are required to take MATH 1320 Math for Social Sciences I or a higher level Calculus course.

**Business majors** are required to take MATH 1320 Math for Social Sciences I or a higher level Calculus course.

NOTE: All courses require a C or better

## Communication (six hours)

Code	Title	Hours
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The objective of the communication component is to enable the student to communicate effectively in clear and correct prose or orally in a style appropriate to the subject, occasion, and audience.

Select six hours of the following: 6

For students whose secondary education was in English:

COMM 1611	Written and Oral Communication
ENGL 1313	Writing About Literature
RWS 1301	Rhetoric & Composition I
RWS 1302	Rhetoric & Composition 2
RWS 1601	Rhetoric, Composition & Comm

For students whose secondary education was not in English:

ESOL 1311	Expos Engl Compos-Sprk Esl	3
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ESOL 1312	Res & Crit Writng Spkr Esl	3
<b>Total Hours</b>		<b>12</b>

### American History (six hours)

Code	Title	Hours
The objectives of the history component are to expand students' knowledge of the origin and history of the U.S., their comprehension of the past and current role of the U.S. in the world, and their ability to critically evaluate and analyze historical evidence. U.S. history courses (three hours must be Texas history) include:		
HIST 1301	History of U.S. to 1865	3
HIST 1302	History of U.S. Since 1865	3
<b>Total Hours</b>		<b>6</b>

### Language, Philosophy & Culture (three hours)

Code	Title	Hours
The objective of the humanities component is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature and philosophy, students engage in critical analysis and develop an appreciation of the humanities as fundamental to the health and survival of any society.		
Select one of the following:		3
CHIC 2302	Latina/o Presence in the U.S.	
ENGL 2311	English Literature	
ENGL 2312	English Literature	
ENGL 2313	Intro to American Fiction	
ENGL 2314	Intro to American Drama	
ENGL 2318	Intro to American Poetry	
FREN 2322	Making of the "Other" Americas	
HIST 2301	World History to 1500	
HIST 2302	World History Since 1500	
PHIL 1301	Introduction to Philosophy	
PHIL 2306	Ethics	
RS 1301	Introduct to Religious Studies	
SPAN 2340	Seeing & Naming: Conversations	
WS 2300	Introduction to Womens Studies	
WS 2350	Global Feminisms	
<b>Total Hours</b>		<b>3</b>

### Mathematics (three hours)

Code	Title	Hours
The objective of the mathematics component is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.		
Select one of the following:		3
MATH 1309	College Algebra	
MATH 1310	Trigonometry and Conics	
MATH 1319	Math in the Modern World	
MATH 1320	Math for Social Sciences I	
MATH 1411	Calculus I	
MATH 1508	Precalculus <sup>1,2</sup>	
MATH 2301	Math for Social Sciences II	
STAT 1380	Statistical Literacy	
STAT 2480	Elementary Statistical Methods	
1 A higher-level course in the calculus sequence can be substituted.		

2 TCCN MATH 1314 will also satisfy this requirement.

**Total Hours****3****Life & Physical Sciences (six hours)**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
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The objective of the study of the natural sciences is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories. The courses listed are for non-majors; the major courses in the discipline can be substituted for the non-major sequence. A minimum of two semesters of lecture and one semester of laboratory associated with one of the courses, or two semesters of combined (3 credit) lecture-laboratory courses (Only six hours apply toward the required 42.):

Select one of the following:	1-4
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ASTR 1107	Astronomy Lab I	
ASTR 1307	Elem Astronomy-Solar System	
ASTR 1308	Elem Astr Stars & Galaxies	
BIOL 1103	Introductory Biology Lab	
BIOL 1104	Human Biology Laboratory	
BIOL 1107	Topics in Study of Life I	
BIOL 1108	Organismal Biology Laboratory	
BIOL 1203	Introductory Biology	
BIOL 1304	Human Biology	
BIOL 1305	General Biology	
BIOL 1306	Organismal Biology	
BIOL 2111	Human Anat/Physio Lab I	
BIOL 2113	Human Anat/Physio Lab II	
BIOL 2311	Human Anat/Physiology I	
BIOL 2313	Human Anat/Physiology II	
CHEM 1105	Laboratory for CHEM 1305	
CHEM 1106	Laboratory for CHEM 1306	
CHEM 1107	Intro General Chemistry Lab	
CHEM 1108	Intro Organic & Biochem Lab	
CHEM 1305	General Chemistry	
CHEM 1306	General Chemistry	
CHEM 1307	Intro to General Chemistry	
CHEM 1308	Intro Organic & Biochemistry	
ESCI 1101	Environmental Sci. Lab	
ESCI 1102	Non-major Lab for ESCI 1301	
ESCI 1202	Intro to Environment Science 2	
ESCI 1301	Intro to Environmental Sci	
GEOG 1106	Laboratory for GEOG 1306	
GEOG 1306	Physical Geography	
GEOL 1103	Lab for GEOL 1313	
GEOL 1104	Lab for GEOL 1314	
GEOL 1111	Principles of Earth Sci - Lab	
GEOL 1112	Laboratory for Geology 1212	
GEOL 1211	Principles of Earth Sciences	
GEOL 1212	Principles of Earth Science	
GEOL 1230	The Blue Planet	
GEOL 1231	Natural Hazards	
GEOL 1313	Intro to Physical Geology	
GEOL 1314	Intro to Historical Geol	
HSCI 2302	Fundamentals of Nutrition	
HSCI 2303	Wellness Dynamics	
MICR 2330	Microorganisms and Disease	



PHYS 1403	General Physics I
PHYS 1404	General Physics II
PHYS 2420	Introductory Mechanics
PHYS 2421	Introductory Electromagnetism

**Total Hours** **1-4**

### Political Science (six hours)

Code	Title	Hours
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The objectives of the political science component are to expand students' knowledge of the origin and evolution of the U.S. and Texas political systems, focusing on the growth of political institutions, and on the constitutions of Texas and the United States; and to enhance their understanding of federalism, states rights, and individual civil liberties, rights, and responsibilities.

Required Courses:

POLS 2310	Introduction to Politics	3
POLS 2311	American Govern & Politics	3

**Total Hours** **6**

### Social and Behavioral Sciences (three hours)

Code	Title	Hours
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The objective of the social and behavioral science component is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

Select one of the following: 3

ANTH 1301	Intro-Phys Anth/Archeolog
ANTH 1302	Intro-Cultural Anthropology
ANTH 1310	Cultural Geography
ANTH 2320	Intro to Linguistics
CE 2326	Econ for Engrs & Scientists
COMM 2350	Interpersonal Communication
COMM 2372	Mass Media and Society
ECON 2303	Principles of Economics
ECON 2304	Principles of Economics
EDPC 1301	Introduction to Ed Psychology
EDU 1342	Action Research in Classrooms
ENGL 2320	Introduction to Linguistics
GEOG 1310	Cultural Geography
LING 2320	An Intro. to Linguistics
LING 2340	Lang. Inside & Out: Sel Topics
PSYC 1301	Introduction to Psychology
SOCI 1301	Introduction to Sociology
SOCI 1310	Cultural Geography

**Total Hours** **3**

### Creative Arts (three hours)

Code	Title	Hours
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The objective of the visual and performing arts component is to expand students' knowledge and appreciation of the human imagination as expressed through works of visual art, dance, music, theatre and film. Through study in these disciplines, students will form aesthetic judgments and develop an appreciation of the arts as fundamental to the health and survival of any society.

Select one of the following: 3

ART 1300	Art Appreciation
ARTH 1305	History of Art I
ARTH 1306	History of Art II
DANC 1304	Dance Appreciation
FILM 1390	Intro-Art of Motion Pict.

MUSL 1324	Music Appreciation
MUSL 1327	Jazz to Rock
MUSL 2321	Music, Culture, and Society
THEA 1313	Introduction to Theatre

**Total Hours** **3**

### Component Area Option (six hours)

Code	Title	Hours
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The objective of the institutionally designated option component is to develop the critical thinking skills and academic tools required to be an effective learner. Special emphasis is placed on the use of technology in problem-solving, communications, and knowledge acquisition.

Select two of the following: **6**

BUSN 1301	Intro to Global Business
COMM 1301	Public Speaking
COMM 1302	Business/Profession Comm
CS 1310	Intro-Computational Thinking
CS 1320	Computer Programming Sci/Engr
EL 1301	Eng Innovation and Leadership
SCI 1301	Inquiry in Math & Science
UNIV 1301	Seminar/Critical Inquiry

**Total Hours** **6**

To learn about the American Academy of Forensic Sciences (AAFS) (<http://aafs.org/>) please click on the link.

## 4-Year Sample Degree Plan

### Forensic Biology - starting with Pre-Calculus

Code	Title	Hours
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#### FORENSIC BIOLOGY

##### FRESHMAN

##### Fall

MATH 1508	Precalculus	5
BIOL 1305 & BIOL 1105	General Biology and	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
SCI 1301	Inquiry in Math & Science	3

##### Spring

MATH 1411	Calculus I	4
BIOL 1306 & BIOL 1106	Organismal Biology and	4
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
PSYC 1301	Introduction to Psychology	3

##### SOPHOMORE

##### Fall

STAT 2480	Elementary Statistical Methods	4
CHEM 2324 & CHEM 2124	Organic Chemistry and Lab for Organic Chemistry 2324	4
PHYS 1403	General Physics I	4
RWS 1301	Rhetoric & Composition I	3
HIST 1301	History of U.S. to 1865	3

##### Spring

MICR 2340 & MICR 2141	General Microbiology and Gen Microbiology Laboratory	4
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CHEM 2325 & CHEM 2125	Organic Chemistry and Lab for Organic Chemistry 2325	4
PHYS 1404	General Physics II	4
RWS 1302	Rhetoric & Composition 2	3
HIST 1302	History of U.S. Since 1865	3

**JUNIOR****Fall**

BIOL 3320	Genetics	3
FORS 3370	Forensic Science I	3
COMM 1301	Public Speaking	3
BIOL 3314 & BIOL 3114	Molecular Cell Biology and	4
ART 1300	Art Appreciation	3

**Spring**

FORS 3371	Forensic Biology	3
BIOL 3330	Histology	3
CHEM 3330	Biochem I:Struc & Function	3
BIOL 3357	Forensic DNA Analysis	3
CRIJ 1301	Intro to Criminal Justice I	3

**SENIOR****Fall**

BIOL 4395	Topics in Biology	3
BIOL 3351	Toxicology	3
PHIL 2306	Ethics	3
Upper Division Biology Course		3
POLS 2310	Introduction to Politics	3

**Spring**

Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		3
POLS 2311	American Gover & Politics	3

**Notes:**

If you plan to apply to medical school, take CHEM 3330, CHEM 3332, BIOL 3320, BIOL 3314- BIOL 3115, MICR 2340- MICR 2141 from Section C on your degree plan.

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**Total Hours** **128**

**Forensic Biology - starting with Calculus**

Code	Title	Hours
<b>FORENSIC BIOLOGY</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		
MATH 1411	Calculus I	4
BIOL 1305 & BIOL 1105	General Biology and	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
SCI 1301	Inquiry in Math & Science	3
HIST 1301	History of U.S. to 1865	3
<b>Spring</b>		
STAT 2480	Elementary Statistical Methods	4
BIOL 1306 & BIOL 1106	Organismal Biology and	4

CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
PSYC 1301	Introduction to Psychology	3
HIST 1301	History of U.S. to 1865	3

**SOPHOMORE****Fall**

CHEM 2324 & CHEM 2124	Organic Chemistry and Lab for Organic Chemistry 2324	4
PHYS 1403	General Physics I	4
CRIJ 1301	Intro to Criminal Justice I	3
RWS 1301	Rhetoric & Composition I	3
ART 1300	Art Appreciation	3

**Spring**

MICR 2340 & MICR 2141	General Microbiology and Gen Microbiology Laboratory	4
CHEM 2325 & CHEM 2125	Organic Chemistry and Lab for Organic Chemistry 2325	4
PHYS 1404	General Physics II	4
RWS 1302	Rhetoric & Composition 2	3

**JUNIOR****Fall**

BIOL 3320	Genetics	3
FORS 3370	Forensic Science I	3
COMM 1301	Public Speaking	3
BIOL 3314 & BIOL 3114	Molecular Cell Biology and	4
POLS 2310	Introduction to Politics	3

**Spring**

FORS 3371	Forensic Biology	3
BIOL 3375	Forensic Pathobiology	3
CHEM 3330	Biochem I:Struc & Function	3
POLS 2311	American Gover & Politics	3

**SENIOR****Fall**

BIOL 4395	Topics in Biology	3
BIOL 3351	Toxicology	3
PHIL 2306	Ethics	3
Upper Division Biology Course		3

**Spring**

Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		3
BIOL 3357	Forensic DNA Analysis	3

**Notes:**

If you plan to apply to medical school, take CHEM 3330, CHEM 3332, BIOL 3320, BIOL 3314- BIOL 3115, MICR 2340- MICR 2141 from Section C on your degree plan.

**Total Hours****120****Forensic Chemistry - starting with Calculus**

Code	Title	Hours
<b>FORENSIC CHEMISTRY</b>		
<b>FRESHMAN</b>		
<b>Fall</b>		

RWS 1301	Rhetoric & Composition I	3
MATH 1411	Calculus I	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
BIOL 1305 & BIOL 1107	General Biology and Topics in Study of Life I	4
<b>Spring</b>		
RWS 1302	Rhetoric & Composition 2	3
SCI 1301	Inquiry in Math & Science	3
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
<b>SOPHOMORE</b>		
<b>Fall</b>		
HIST 1301	History of U.S. to 1865	3
COMM 1302	Business/Profession Comm	3
PHYS 2420	Introductory Mechanics	4
CHEM 2321 & CHEM 2221	Organic Chemistry I and Organic Chemistry I Lab	5
<b>Spring</b>		
HIST 1302	History of U.S. Since 1865	3
ART 1300	Art Appreciation	3
PHYS 2421	Introductory Electromagnetism	4
CHEM 2322 & CHEM 2222	Organic Chemistry II and Organic Chemistry II Lab	5
<b>JUNIOR</b>		
<b>Fall</b>		
STAT 2480	Elementary Statistical Methods	4
CHEM 3330	Biochem I:Struc & Function	3
CHEM 3351	Physical Chemistry I	3
CHEM 3310	Analytical Chemistry	3
FORS 3370	Forensic Science I	3
<b>Spring</b>		
POLS 2310	Introduction to Politics	3
PHIL 2306	Ethics	3
Upper Division Course		3
CHEM 3352	Physical Chemistry II	3
FORS 3371	Forensic Biology	3
<b>SENIOR</b>		
<b>Fall</b>		
POLS 2311	American Gover & Politics	3
BIOL 3375	Forensic Pathobiology	3
BIOL 3351	Toxicology	3
Upper Division Course		3
Upper Division Course		3
CRIJ 1301	Intro to Criminal Justice I	3
<b>Spring</b>		
PSYC 1301	Introduction to Psychology	3
Upper Division Course		3
Upper Division Course		3
Upper Division Course		3

Upper Division Course

2

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**Total Hours**

**122**