

BS in Forensic Science

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.

[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.

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.

Code	Title	Hours
Designated Core		
**Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major		
All courses listed below are required:		
Social and Behavioral Sciences		
PSYC 1301	Introduction to Psychology	
Language, Philosophy and Culture		
PHIL 2306	Ethics	
Mathematics		
Required:		
MATH 1411	Calculus I	
Life and Physical Sciences		
Select one of the following sequences:		
PHYS 1403 & PHYS 1404	General Physics I and General Physics II	
OR		
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	
and		
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	
University Core Curriculum		42
Forensic Science Major ^C		
Required:		
BIOL 1305 & BIOL 1107	General Biology and Topics in Study of Life I	4
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
CHEM 2324 & CHEM 2124	Organic Chemistry and Lab for Organic Chemistry 2324	4
CHEM 2325 & CHEM 2125	Organic Chemistry and Lab for Organic Chemistry 2325	4

CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
STAT 2480	Elementary Statistical Methods	4

Specialized Science Courses ^C

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 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 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211
CHEM 4365	Inorganic Chemistry
MICR 2340 & MICR 2141	General Microbiology and Gen Microbiology Laboratory

Additional Coursework ^C

Select twelve hours from the following: 12

BIOL 3351	Toxicology
BIOL 3357	DNA Structure and 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. ^C

Select one of the following: 3

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

Forensic Biology Track ^C**Concentration**

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

BIOL 3192	Professional Development Sem.
BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory
BIOL 3316 & BIOL 3117	Ecology and Ecology Laboratory
BIOL 3320	Genetics
BIOL 3321	Evolution
BIOL 3342	Plants and People
BIOL 3351	Toxicology
BIOL 3357	DNA Structure and 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	Animal Behavior
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 3343 & MICR 3144	Pathogenic Microbiology and Pathogenic Microbiology Lab
MICR 3345 & MICR 3146	Microbial Physiology and Microbial Physiology Lab
MICR 4329	Epidemiology
MICR 4351	General Virology
MICR 4353 & MICR 4154	Immunology and Immunology Laboratory
MICR 4355	Medical Mycology

Upper Division Requirement^C

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
Designated Core		
**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:		
Language, Philosophy and Culture		
PHIL 2306	Ethics	
Social and Behavioral Sciences		
PSYC 1301	Introduction to Psychology	
Life and Physical Sciences		
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	

and

PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321
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Mathematics

MATH 1411	Calculus I
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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^C**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 1305 & BIOL 1107	General Biology and Topics in Study of Life I	4
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BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
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CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
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CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
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CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
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STAT 2480	Elementary Statistical Methods	4
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Specialized Science Courses^C

Select twelve hours from the following:		12
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BIOL 3314 & BIOL 3115	Molecular Cell Biology and Molecular Cell Biol Laboratory
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BIOL 3320	Genetics
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BIOL 3351	Toxicology
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BIOL 4395	Topics in Biology
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CHEM 3310 & CHEM 3110	Analytical Chemistry and Lab for Chemistry 3310
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CHEM 3330	Biochem I: Struc & Function
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CHEM 3332	Biochem II: Metabol & Bioenerg
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CHEM 3351 & CHEM 3151	Physical Chemistry I and Lab for Chemistry 3351
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CHEM 3352 & CHEM 3152	Physical Chemistry II and Lab for Chemistry 3352
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CHEM 4211 & CHEM 4212	Instrumental Meths Analyt Chem and Lab for Chemistry 4211
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CHEM 4365	Inorganic Chemistry
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MICR 2141 & MICR 2340	Gen Microbiology Laboratory and General Microbiology
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Additional Coursework^C

Select twelve hours from the following:

12

BIOL 3351	Toxicology
BIOL 3357	DNA Structure and 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 ^C

Concentration

Select twenty additional hours of upper-division Chemistry:

20

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

Upper Division Requirement ^C

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 (A program may recommend specific courses. All courses require a C or better.)

I. Communication (six hours)

Code	Title	Hours
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Courses in this category focus on developing ideas and expressing them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. Courses involve the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Teamwork, and Personal Responsibility.

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-Spkr Esl
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ESOL 1312

Res & Crit Writng Spkr Esl

TOTAL HOURS 6**II. American History (six hours)**

Code	Title	Hours
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Courses in this category focus on the consideration of past events and ideas relative to the United States, with the option of including Texas History for a portion of this component area. Courses involve the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Social Responsibility, and Personal Responsibility.

HIST 1301	History of U.S. to 1865	3
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HIST 1302	History of U.S. Since 1865	3
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TOTAL HOURS 6**III. Language, Philosophy & Culture (three hours)**

Code	Title	Hours
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Courses in this category focus on how ideas, values, beliefs, and other aspects of culture express and affect human experience. Courses involve the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Social Responsibility, and Personal Responsibility.

Select one of the following:		3
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AFST 2300	Intro-African Amer Studies	
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CHIC 2302	Latina/o Presence in the U.S.	
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ENGL 2311	English Literature	
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ENGL 2312	English Literature	
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ENGL 2313	Intro to American Fiction	
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ENGL 2314	Intro to American Drama	
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ENGL 2318	Intro to American Poetry	
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FREN 2322	Making of the "Other" Americas	
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HIST 2301	World History to 1500	
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HIST 2302	World History Since 1500	
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PHIL 1301	Introduction to Philosophy	
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PHIL 2306	Ethics	
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RS 1301	Introduct to Religious Studies	
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SPAN 2340	Seeing & Naming: Conversations	
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WS 2300	Introduction to Womens Studies	
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WS 2350	Global Feminisms	
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TOTAL HOURS 3**IV. Mathematics (three hours)**

Code	Title	Hours
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Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience. Course objectives for this component are: Critical Thinking Skills, Communication Skills, and Empirical & Quantitative Skills.

Select one of the following:		3
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MATH 1309	College Algebra	
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MATH 1310	Trigonometry and Conics	
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MATH 1319	Math in the Modern World	
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MATH 1320	Math for Social Sciences I	
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MATH 1411	Calculus I	
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MATH 1508	Precalculus	
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MATH 2301	Math for Social Sciences II	
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STAT 1380	Statistical Literacy	
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STAT 2480	Elementary Statistical Methods	
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TOTAL HOURS 3

V. Life & Physical Sciences (six hours)

Code	Title	Hours
Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on experiences. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Empirical & Quantitative Skills, and Teamwork.		
Select one of the following:		
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 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 2120	Laboratory for PHYS 2320	
PHYS 2121	Laboratory for PHYS 2321	
PHYS 2320	Introductory Mechanics	

PHYS 2321	Introductory Electromagnetism	
TOTAL HOURS		6

VI. Political Science (six hours)

Code	Title	Hours
Courses in this category focus on consideration of the Constitution of the United States and the constitutions of the states, with special emphasis on that of Texas. Courses involve the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Social Responsibility and Personal Responsibility.		
Required Courses:		
POLS 2310	Introduction to Politics	3
POLS 2311	American Gover & Politics	3
TOTAL HOURS		6

VII. Social & Behavioral Sciences (three hours)

Code	Title	Hours
Courses in this category focus on the application of empirical and scientific methods that contribute to the understanding of what makes us human. Courses involve the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Empirical & Quantitative Skills, and Social Responsibility.		
Select one of the following:		
ANTH 1301	Intro-Phys Anth/Archeolog	
ANTH 1302	Intro-Cultural Anthropology	
ANTH 1310	Cultural Geography	
ANTH 2320	Intro to Linguistics	
ASIA 2300	Asian American Studies	
CE 2326	Econ for Engrs & Scientists	
CHIC 2311	Intro to Chicano Studies	
COMM 2350	Interpersonal Communication	
COMM 2372	Mass Media and Society	
ECON 2303	Principles of Macroeconomics	
ECON 2304	Principles of Microeconomics	
EDPC 1301	Introduction to Ed Psychology	
EDU 1342	Action Research in Classrooms	
ENGL 2320	Introduction to Linguistics	
GEOG 1310	Cultural Geography	
LEAD 2300	Leadership in Action	
LING 2320	Introduction 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

VIII. Creative Arts

Code	Title	Hours
Courses in this category focus on the appreciation and analysis of creative artifacts and works of the human imagination. Courses involve the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art. Course objectives for this component are: Critical Thinking Skills, Communication Skills, Teamwork, and Social Responsibility.		
Select one of the following:		
ART 1300	Art Appreciation	
ARTH 1305	History of Art I	
ARTH 1306	History of Art II	
CHIC 1311	Chicana/o Fine Arts Appreciat	
		3

DANC 1304	Introduction to Dance	
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**

IX. Component Area Option (six hours)

Code	Title	Hours
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a. A minimum of 3 SCH must meet the definition and corresponding Core Objectives specified in one of the foundational component areas. b. As an option for up to 3 semester credit hours of the Component Area Option, an institution may select course(s) that: (i) Meet(s) the definition specified for one or more of the foundational component areas; and (ii) Include(s) a minimum of three Core Objectives, including Critical Thinking Skills, Communication Skills, and one of the remaining Core Objectives of the institution's choice.

BUSN 1301	Intro to Global Business	
COMM 1301	Public Speaking	3
COMM 1302	Business/Profession Comm	
CS 1310	Intro-Computational Thinking	
CS 1320	Computer Programming Sci/Engr	
EL 1301	Eng Innovation and Leadership	
ENGR 1302	Engineering Design Experience	
ENGR 1303	Applied Engineering Analysis	
LEAD 1300	Introduction to Leadership	
SCI 1301	Inquiry in Math & Science	
SPLP 1312	Comm. Var. Across the Lifespan	
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 Science - Forensic Biology Concentration - Starting with Pre-Calculus

Code	Title	Hours
FORENSIC BIOLOGY		
FRESHMAN		
Fall		
SCI 1301	Inquiry in Math & Science	3
MATH 1508	Precalculus	5
BIOL 1305 & BIOL 1107	General Biology and Topics in Study of Life I	4
CHEM 1305 & CHEM 1105	General Chemistry and Laboratory for CHEM 1305	4
Spring		
PSYC 1301	Introduction to Psychology	3
MATH 1411	Calculus I	4
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
SOPHOMORE		
Fall		
RWS 1301	Rhetoric & Composition I	3

HIST 1301	History of U.S. to 1865	3
PHYS 1403	General Physics I	4
STAT 2480	Elementary Statistical Methods	4
CHEM 2324 & CHEM 2124	Organic Chemistry and Lab for Organic Chemistry 2324	4
Spring		
RWS 1302	Rhetoric & Composition 2	3
HIST 1302	History of U.S. Since 1865	3
PHYS 1404	General Physics II	4
Specialized Science Course		3
CHEM 2325 & CHEM 2125	Organic Chemistry and Lab for Organic Chemistry 2325	4
JUNIOR		
Fall		
COMM 1301	Public Speaking	3
BIOL or FORS Elective		3
BIOL or FORS Elective		3
Specialized Science Course		3
CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
Spring		
ART 1300	Art Appreciation	3
BIOL or FORS Elective		3
BIOL or FORS Elective		3
Specialized Science Course		3
Specialized Science Course		3
Fall		
POLS 2310	Introduction to Politics	3
PHIL 2306	Ethics	3
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		2
Spring		
POLS 2311	American Gover & Politics	3
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		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**125****Forensic Science - Forensic Biology Concentration - Starting with Calculus**

Code	Title	Hours
FORENSIC BIOLOGY		
FRESHMAN		
Fall		
RWS 1301	Rhetoric & Composition I	3
SCI 1301	Inquiry in Math & Science	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
Spring		
RWS 1302	Rhetoric & Composition 2	3
PSYC 1301	Introduction to Psychology	3
STAT 2480	Elementary Statistical Methods	4
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
SOPHOMORE		
Fall		
HIST 1301	History of U.S. to 1865	3
ART 1300	Art Appreciation	3
PHYS 1403	General Physics I	4
CHEM 2324 & CHEM 2124	Organic Chemistry and Lab for Organic Chemistry 2324	4
CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
Spring		
HIST 1302	History of U.S. Since 1865	3
PHYS 1404	General Physics II	4
Specialized Science Course		3
CHEM 2325 & CHEM 2125	Organic Chemistry and Lab for Organic Chemistry 2325	4
JUNIOR		
Fall		
POLS 2310	Introduction to Politics	3
COMM 1301	Public Speaking	3
Specialized Science Course		3
Specialized Science Course		3
BIOL or FORS Elective		3
Spring		
POLS 2311	American Gover & Politics	3
BIOL or FORS Elective		3
Upper Division BIOL Course		3
Specialized Science Course		3
SENIOR		
Fall		
PHIL 2306	Ethics	3
BIOL or FORS Elective		3
BIOL or FORS Elective		3
Upper Division Biology Course		3
Upper Division Biology Course		2
Spring		
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		3
Upper Division Biology Course		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 Science - Forensic Chemistry Concentration - Starting with Calculus

Code	Title	Hours
FORENSIC CHEMISTRY		
FRESHMAN		
Fall		
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
Spring		
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
SOPHOMORE		
Fall		
HIST 1301	History of U.S. to 1865	3
COMM 1302	Business/Profession Comm	3
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
CHEM 2321 & CHEM 2221	Organic Chemistry I and Organic Chemistry I Lab	5
Spring		
HIST 1302	History of U.S. Since 1865	3
ART 1300	Art Appreciation	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
CHEM 2322 & CHEM 2222	Organic Chemistry II and Organic Chemistry II Lab	5
CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
JUNIOR		
Fall		
STAT 2480	Elementary Statistical Methods	4
Specialized Science Course		3
Specialized Science Course		3
BIOL or FORS Elective		3
Specialized Science Course		3
Spring		
POLS 2310	Introduction to Politics	3
PHIL 2306	Ethics	3
Upper Division CHEM Course		3
Specialized Science Course		3
Upper Division CHEM Course		3
SENIOR		
Fall		

POLS 2311	American Govern & Politics	3
BIOL or FORS Elective		3
BIOL or FORS Elective		3
Upper Division CHEM Course		3
Upper Division CHEM Course		3
Spring		
PSYC 1301	Introduction to Psychology	3
Upper Division CHEM Course		3
Upper Division CHEM Course		3
BIOL or FORS Elective		3
Upper Division CHEM Course		2
Total Hours		122

Forensic Science - Forensic Chemistry Concentration - Starting with Pre-Calculus

Code	Title	Hours
FORENSIC CHEMISTRY		
FRESHMAN		
Fall		
RWS 1301	Rhetoric & Composition I	3
MATH 1508	Precalculus	5
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
Spring		
RWS 1302	Rhetoric & Composition 2	3
SCI 1301	Inquiry in Math & Science	3
MATH 1411	Calculus I	4
CHEM 1306 & CHEM 1106	General Chemistry and Laboratory for CHEM 1306	4
BIOL 1306 & BIOL 1108	Organismal Biology and Organismal Biology Laboratory	4
SOPHOMORE		
Fall		
HIST 1301	History of U.S. to 1865	3
COMM 1302	Business/Profession Comm	3
PHYS 2320 & PHYS 2120	Introductory Mechanics and Laboratory for PHYS 2320	4
CHEM 2321 & CHEM 2221	Organic Chemistry I and Organic Chemistry I Lab	5
Spring		
HIST 1302	History of U.S. Since 1865	3
PHYS 2321 & PHYS 2121	Introductory Electromagnetism and Laboratory for PHYS 2321	4
CHEM 2322 & CHEM 2222	Organic Chemistry II and Organic Chemistry II Lab	5
CRIJ 1301 or CRIJ 4315	Intro to Criminal Justice I Homicide	3
JUNIOR		
Fall		
STAT 2480	Elementary Statistical Methods	4
BIOL or FORS Elective		3
Specialized Science Course		3

Specialized Science Course		3
Specialized Science Course		3
Spring		
POLS 2310	Introduction to Politics	3
PHIL 2306	Ethics	3
Upper Division CHEM Course		3
BIOL or FORS Elective		3
Upper Division CHEM Course		3
SENIOR		
Fall		
POLS 2311	American Gover & Politics	3
Upper Division CHEM Course		3
BIOL or FORS Elective		3
Upper Division CHEM Course		3
Specialized Science Course		3
Spring		
PSYC 1301	Introduction to Psychology	3
ART 1300	Art Appreciation	3
Upper Division CHEM Course		3
Upper Division CHEM Course		3
BIOL or FORS Elective		3
Upper Division CHEM Course		2
Total Hours		127