## **FORENSIC AND INVESTIGATIVE SCIENCES -BS, PRE-LAW EMPHASIS**

Forensic and Investigative Sciences (BS - Pre-Law Emphasis) is a major offered by the Department of Entomology. Molecular, organismal, environmental, and ecological sources of information are often analyzed and interpreted in industrial, regulatory, legal, medical and associated professions. Graduates will be competitive for employment opportunities in homeland security and investigative services at local, state and national levels. Graduates will also be well prepared for opportunities to enter post-graduate studies or law school.

Forensic and investigative sciences operate at the crossroads of science and the legal profession and provide opportunities for students to consider pre-law preparation. There are growing demands for attorneys with knowledge and understanding of science and research to address legal issues and cases where the interpretation of science and/or scientific data and analyses are pivotal. Law schools often seek candidates with diverse backgrounds and interests, and they look closely at curricula that stress analytical and problem-solving skills, critical reading abilities, writing skills, oral communication and listening abilities, general research skills, and task organization and management skills. The Forensic and Investigative Sciences program provides students with opportunities to build these essential skills and knowledge areas through a combination of required and elective courses.

Forensic science is a critical element of the criminal justice system. Forensic scientists examine and analyze evidence from crime scenes and elsewhere to develop objective findings that can assist in the investigation and prosecution of perpetrators of crime or absolve an innocent person from suspicion.

The forensic scientist's skill is to use all the information available to determine facts. Issues of law and/or fact that may require forensic science expertise range from questions of the validity of a signature on a will, to a claim of products liability, to guestions of whether a corporation is complying with environmental laws. The work of the forensic scientist reduces the number of cases entering the overloaded court system by assisting the decision-makers before a case reaches the court. This decision is based on scientific investigation, not circumstantial evidence or the sometimes-unreliable testimony of witnesses.

Many forensic scientists work for universities, police agencies (state, city, and local agencies), federal agencies, and criminal investigation arms of the military forces and their support laboratories. Others work for coroners, medical examiners, hospitals, and district attorney's offices.

As crime continues to evolve with technology and society, forensic scientists will be challenged to respond by adapting established technologies and, where necessary, developing new ones. These emerging forensic science disciplines will continue to be of vital importance to the courts and to society in general.

https://entomology.tamu.edu/b-s-forensic-investigative-sciences/

Program Requirements			
First Year Fall		Semester Credit Hours	
BIOL 111	Introductory Biology I	4	
FIVS 101 or AGLS 101	Introduction to Academic Success in Forensic and Investigative Sciences or Modern Agricultural Systems and Renewable Natural Resources	1	
FIVS 205	Introduction to Forensic and Investigative Sciences	3	
MATH 140	Mathematics for Business and Social Sciences	3	
	(http://catalog.tamu.edu/undergraduate/ ion/university-core-curriculum/ )	3	
Spring	Semester Credit Hours	14	
BIOL 112	Introductory Biology II	4	
FIVS 102	Continuing Academic Success in Forensic and Investigative Sciences	0	
MATH 142 or PHIL 240	Business Calculus or Introduction to Logic	3	
	(http://catalog.tamu.edu/undergraduate/ ion/university-core-curriculum/#american-	3	
	(http://catalog.tamu.edu/undergraduate/ ion/university-core-curriculum/ )	3	
	p://catalog.tamu.edu/undergraduate/ ion/university-core-curriculum/#creative-	3	
	Semester Credit Hours	16	
Second Year Fall			
CHEM 119	Fundamentals of Chemistry I	4	
FIVS 210	Forensic Photography	2	
FIVS 215	Forensic Microscopy	2	
undergraduate/g	tical science (http://catalog.tamu.edu/ eneral-information/university-core- ernment-political-science)	3	
undergraduate/g	ophy and culture (http://catalog.tamu.edu/ eneral-information/university-core- guage-philosophy-culture)	3	
Spring	Semester Credit Hours	14	
CHEM 222	Elements of Organic and Biological Chemistry	3	
FIVS 220	Impression Evidence	2	
American history	(http://catalog.tamu.edu/undergraduate/	3	

general-information/university-core-curriculum/#american-

history)

undergraduate/g	tical science (http://catalog.tamu.edu/ eneral-information/university-core- ernment-political-science)	3
undergraduate/g	ioral sciences (http://catalog.tamu.edu/ eneral-information/university-core- al-behavioral-sciences)	3
	Semester Credit Hours	14
Third Year		
Fall		
FIVS 282	Occupational and Professional	2
	Development	
FIVS 308	Forensic Implications of Inheritance	4
STAT 303	Statistical Methods	3
Directed elective	1	3
General elective		3
	Semester Credit Hours	15
Spring		
BICH 303	Elements of Biological Chemistry	3
FIVS 422	Crime Scene Investigation	2
FIVS 481	Seminar <sup>2</sup>	1
Directed elective	_	3
Directed elective		3
Directed elective	1	3
	Semester Credit Hours	15
Fourth Year		
Fourth Year Fall		
	Forensic Soil Science	3
Fall FIVS 401/	Forensic Soil Science Controlled Substances	3
Fall FIVS 401/ SCSC 401		
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484	Controlled Substances Professional Internship	2
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491	Controlled Substances Professional Internship or Research	2
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective	Controlled Substances Professional Internship or Research	2 2 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective	Controlled Substances Professional Internship or Research	2 2 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective	Controlled Substances Professional Internship or Research 1	2 2 3 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective	Controlled Substances Professional Internship or Research 1	2 2 3 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Spring	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response	2 2 3 3 3 16
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident	2 2 3 3 3 16
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology	2 2 3 3 3 16 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431 FIVS 440	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology  Forensic Communications <sup>2</sup>	2 2 3 3 3 16 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431 FIVS 440 Directed elective	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology  Forensic Communications <sup>2</sup>	2 2 3 3 3 16 3 1
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431 FIVS 440 Directed elective Directed elective	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology  Forensic Communications <sup>2</sup>	2 2 3 3 3 16 3 1 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431 FIVS 440 Directed elective	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology  Forensic Communications 2	2 2 3 3 3 16 3 1 3 3 3
Fall FIVS 401/ SCSC 401 FIVS 420 FIVS 484 or FIVS 491 Directed elective Directed elective Directed elective Spring FIVS 405/ CYBR 405 FIVS 431/ ENTO 431 FIVS 440 Directed elective Directed elective	Controlled Substances Professional Internship or Research  Semester Credit Hours  Applied Digital Forensics and Incident Response The Science of Forensic Entomology  Forensic Communications <sup>2</sup>	2 2 3 3 3 16 3 1 3 3

See below the approved list of directed electives.

AGEC 105, AGEC 315, AGEC 344, AGEC 350, AGEC 429;

ECON 202, ECON 323, ECON 420; MGMT 209; PBSI 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/);

POLS 352, POLS 353, POLS 355; RWFM 308, RWFM 436; URPN 361, URPN 401, URPN 450;

COMM 203, COMM 243, COMM 305, COMM 325, COMM 443; SOCI 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/soci/);

ALED 202, ALED 301, ALED 340, ALED 424, ALED 440; FIVS 289, FIVS 421, FIVS 489; GENE 420/BICH 420; HIST 447; PHIL 111, PHIL 307, PHIL 314, PHIL 315, PHIL 334, PHIL 480; RWFM 470; ENTO 200-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/ento/).

This course fulfills a writing requirement. See Requirement for a Baccalaureate Degree (http://catalog.tamu.edu/undergraduate/general-information/degree-information/#requirementsforabaccalaureatedegreetext) section.

The Forensic and Investigative Sciences program requires students to earn a grade of C or better in all courses within the program curriculum.

University Graduation Requirements:

- Foreign Language (two years of the same language in high school OR one year/ two semester sequence in college)
- Writing Intensive courses (two courses designated W in major or one W and one C course in major)
- International and Cultural Diversity (http://catalog.tamu.edu/ undergraduate/general-information/degree-information/internationalcultural-diversity-requirements/) courses (three credit hours)
- Cultural Discourse (http://catalog.tamu.edu/undergraduate/generalinformation/degree-information/cultural-discourse-requirements/) course (three credit hours)