

Program Change Request

Date Submitted: 09/28/18 11:56 am

Viewing: **BS-FIVS-SCE : Forensic and Investigative Sciences - BS, Science Emphasis**

Last approved: 04/27/18 2:23 pm

Last edit: 11/08/18 8:22 pm

Changes proposed by: ann-pool

Catalog Pages Using this Program [Forensic and Investigative Sciences - BS, Science Emphasis](#)

In Workflow

1. **ENTO Department Head**
2. **Curricular Services Review**
3. **AG Committee Preparer UG**
4. **AG Committee Chair UG**
5. **AG College Dean UG**
6. **UCC Preparer**
7. **UCC Chair**
8. **Faculty Senate Preparer**
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

Contact(s)

Name	E-mail	Phone
Rebecca Hapes	rhapes@tamu.edu	979-845-9733

Academic level Undergraduate
 Effective Term 2019-2020
 Department Entomology
 College Agriculture & Life Sciences
 Program type Degree w/Concentration
 Degree designation BS - Bachelor of Science
 With a major in Forensic Investigative Science (FIVS)
 Associated Program **Not Applicable**
 With a concentration in Science Option (SCE)

Catalog Program Title Forensic and Investigative Sciences - BS, Science Emphasis
 CIP and Fund code 43010600

Rationale for Proposal
CHEM numbering changes; changes to ICD and addition of cultural discourse for graduation 04-27-2018 – Updated the FSTC course with the new NFSC prefix effective Fall 2018. – sw

Program hours 120
 Is this program eligible for financial aid? Yes
 Will program hours change (increase/decrease) due to the proposed curriculum changes? No
 Program delivery mode On-campus

Approval Path

1. 09/21/18 4:07 pm
Pete Teel (pteel): Approved for ENTO Department Head
2. 09/25/18 8:43 am
Angel Mario Carrizales (carr1214): Rollback to Initiator
3. 09/25/18 1:59 pm
Pete Teel (pteel): Approved for ENTO Department Head
4. 09/28/18 8:56 am
Angel Mario Carrizales (carr1214): Rollback to Initiator
5. 09/28/18 2:39 pm
Pete Teel (pteel): Approved for ENTO Department Head
6. 10/04/18 11:50 am
Angel Mario Carrizales (carr1214): Approved for Curricular Services Review
7. 10/04/18 1:28 pm
Dawn Kerstetter (dkerstetter): Approved for AG Committee Preparer UG
8. 10/05/18 9:49 am
Bob Knight (bob-knight): Approved for AG Committee Chair UG
9. 10/05/18 9:57 am
Dawn Kerstetter (dkerstetter): Approved for AG College Dean UG

Catalog Program Requirements

10. 10/08/18 1:58 pm
Sandra Williams
(sandra-williams):
Approved for UCC
Preparer
11. 11/05/18 3:11 pm
Sandra Williams
(sandra-williams):
Approved for UCC Chair

History

- Feb 27, 2017 by
Rebecca Hapes (rhapes)
- Apr 27, 2018 by Sandra
Williams (sandra-
williams)

Code	Title	Semester Credit Hours
Forensic and Investigative Sciences Core Requirements		
FIVS 205	Introduction to Forensic and Investigative Sciences	3
FIVS 308	Forensic Implications of Inheritance	4
FIVS 316	Biotechnology and Forensics	4
FIVS 401/SCSC 401	Forensic Soil Science	3
FIVS 415	Practice and Principles of Science and Law	3
FIVS 422	Crime Scene Investigation	2
FIVS 431/ENTO 431	The Science of Forensic Entomology	3
FIVS 432/ENTO 432	Applied Forensic Entomology	1
FIVS 435	Case Studies in Problem Solving 1	3
FIVS 481	Seminar 1	1
FIVS 482	Occupational and Professional Development	2
FIVS 484	Professional Internship	2
or FIVS 491	or Research	
Natural Science Core Requirements		
BIOL 111	Introductory Biology I	8
& BIOL 112	and Introductory Biology II	
CHEM 101	Course CHEM 101 Not Found	4
& CHEM 111	and Fundamentals of Chemistry Laboratory I	
CHEM 102	Course CHEM 102 Not Found	4
& CHEM 112	and Fundamentals of Chemistry Laboratory II	
CHEM 119	Fundamentals of Chemistry I	4
CHEM 120	Fundamentals of Chemistry II	4
CHEM 227	Organic Chemistry I	4
& CHEM 237	and Organic Chemistry Laboratory	
CHEM 228	Organic Chemistry II	4
& CHEM 238	and Organic Chemistry Laboratory	
CHEM 316	Quantitative Analysis	3
& CHEM 318	and Quantitative Analysis Laboratory	
Select one of the following:		
MATH 140	Mathematics for Business and Social Sciences	3
MATH 141	Finite Mathematics	
MATH 166	Topics in Contemporary Mathematics II	
Select one of the following:		
MATH 131	Mathematical Concepts—Calculus	3
MATH 142	Business Calculus	
MATH 171	Analytic Geometry and Calculus	
PHYS 201	College Physics	8
& PHYS 202	and College Physics	
STAT 302	Statistical Methods	3
Life Science Core Requirements		
AGLS 101	Modern Agricultural Systems and Renewable Natural Resources	1
or FIVS 101	or Introduction to Academic Success in Forensic Investigative Sciences	
BICH 410	Comprehensive Biochemistry I	6
& BICH 411	and Comprehensive Biochemistry II	

Code	Title	Semester Credit Hours
BICH 412	Biochemistry Laboratory I	1
Directed Electives		
Select seven hours from the following:		7
ANSC 326	Food Bacteriology	
ANTH 225	Introduction to Biological Anthropology	
ANTH 425	Human Osteology	
ANTH 427	Human Biological Variation	
BIOL 213	Molecular Cell Biology	
BIOL 319	Integrated Human Anatomy and Physiology I	
BIOL 320	Integrated Human Anatomy and Physiology II	
BIOL 351	Fundamentals of Microbiology	
BIOL 413	Cell Biology	
BIOL 430	Biological Imaging	
BIOL 454	Immunology	
CHEM 318	Quantitative Analysis Laboratory	
CHEM 320	Instrumental Analysis Laboratory	
CHEM 325	Physical Chemistry Laboratory I	
CHEM 326	Physical Chemistry Laboratory II	
CHEM 327	Physical Chemistry I	
CHEM 328	Physical Chemistry II	
CHEM 362	Descriptive Inorganic Chemistry	
CHEM 415	Analytical Chemistry	
CHEM 434	Analytical Instrumentation Laboratory	
DASC 326/NFSC 326	Food Bacteriology	
ENTO 403	Urban Entomology	
ENTO 423	Medical Entomology	
ENTO 428	Insect Biotechnology	
ENTO 429	Insect Biotechnology Laboratory	
FIVS 421	Latent Print Processing	
GENE 412	Population and Ecological Genetics	
GENE 420	Bioethics	
GENE 450	Recombinant DNA and Biotechnology	
NFSC 326/DASC 326	Food Bacteriology	
PHYS 221	Optics and Thermal Physics	
PSYC 305	Psychology of Adjustment	
PSYC 306	Abnormal Psychology	
PSYC 371	Forensic Psychology	
SCSC 301	Soil Science	
SOCJ 304	Criminology	
VIBS 305	Biomedical Anatomy	
VTPB 405	Biomedical Microbiology	
VTPP 425	Pharmacology	
University Core Curriculum Requirements		
American History		6
Government/Political science		6
Communication		6
Creative arts		3
Language, philosophy and culture elective		3
Social and behavioral science		3
General Elective Requirement		
General elective		3
Total Semester Credit Hours		120

1 This course fulfills a writing requirement. See Requirement for a Baccalaureate Degree 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 Courses (three credit hours)

Cultural Discourse Course (three credit hours)

Additional information [04-27-2018 – Updated the FSTC course with the new NFSC prefix effective Fall 2018. –sw](#)

Required Proposal [CATALOG 142 DEGREE EVALUATION.pdf](#)
Forms

Reviewer Comments

Angel Mario Carrizales (carri1214) (09/25/18 8:43 am): Rollback: Please upload an edited degree evaluation reflecting the proposed curriculum changes for 2018-2019.

Angel Mario Carrizales (carri1214) (09/28/18 8:56 am): Rollback: Please address the following. 1) CHEM 101, 102, 111, 112 will no longer be offered, please remove them from the evaluation. (Listed as "OR") 2) ANSC will be changing DASC 326 to ANSC 326 for 201931. Please update the catalog and the evaluation to replace DASC 326 with ANSC 326.

Angel Mario Carrizales (carri1214) (10/04/18 11:50 am): Initial concerns addressed.

Sandra Williams (sandra-williams) (11/05/18 3:11 pm): UCC approved November 2018.

Key: 247


[Print](#)

Detail Requirements

Ann L. Pool
Sep 28, 2018 11:22 am

Viewing: Degree Evaluation (DEGEVAL, , Email)
Change Student

Information for Degree Evaluation

 This is NOT an official evaluation.

Print Instructions

Program Evaluation

Minimum Grade Rqmt No grade below a 'C' is acceptable in all coursework.

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.

Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Limitation No more than 50% of courses required for the degree plan can be taken as Distance Education Courses for non-distance degree programs.

Limitation Only one of the following will satisfy the requirements for a degree: GENE 301, GENE 302, GENE 315, and GENE 320.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 131, MATH 142, MATH 147, MATH 151, and MATH 171.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 140, MATH 141, and MATH 166.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 148, MATH 152, and MATH 172.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 221, MATH 251, and MATH 253.

Limitation Only one of the following will satisfy the requirements for a degree: MATH 304, MATH 309, MATH 311, and MATH 323.

Limitation Only one of the following will satisfy the requirements for a degree: STAT 301, STAT 302, and STAT 303.

Program :	BS FIVS-Science Emphasis	Catalog Term :	Fall 2018 - College Station
Campus :	College Station	Evaluation Term :	Fall 2018 - College Station
College :	Agriculture & Life Sciences	Expected Graduation Date :	
Degree :	Bachelor of Science	Request Number :	7
Level :	Undergraduate	Results as of :	Sep 28, 2018
Majors :	Forensic Investigative Science	Minors :	
Departments :	Entomology	Concentrations :	

FALL 2019

	Met Credits		Courses	
	Required	Used	Required	Used
Total Required :	No	120.000	0.000	0
Program GPA :	Yes	.00	.00	
Overall GPA :	No	2.00	.00	

Other Course Information

Transfer : 0.000 0

This is NOT an official evaluation.

Area : Major Coursework (31.000 credits) - Not Met

Description : Minimum Grade Rqmt No grade below a 'C' is acceptable in all coursework.

Met	Condition Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute C
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No	A.	FIVS 205	3hrs								
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No	AND	B.	FIVS 308 4hrs	Must make a grade of 'C' or better.
No	AND	C.	FIVS 316 4hrs	Must make a grade of 'C' or better.
No	AND	D.	FIVS 401 3hrs	Must make a grade of 'C' or better.
No	AND	E.	FIVS 415 3hrs	Must make a grade of 'C' or better.
No	AND	F.	FIVS 431 3hrs	Must make a grade of 'C' or better.
No	AND	G.	FIVS 432 1hr	Must make a grade of 'C' or better.
No	AND	H.	FIVS 435 3hrs	Must make a grade of 'C' or better.
No	AND	I.	FIVS 422 2hrs	Must make a grade of 'C' or better.
No	AND	J.	FIVS 481 1hr	Must make a grade of 'C' or better.
No	AND	K.	FIVS 482 2hrs	Must make a grade of 'C' or better.
No	AND	L.	Internship/Research 2hrs	Must make a grade of 'C' or better.

Total Credits and GPA

unofficial evaluation

Area : Supporting Coursework (38.000 credits) - Not Met

Description : Minimum Grade Rqmt No grade below a 'C' is acceptable in all coursework.

Met Condition Rule Subject Attribute Low High Required Term Subject Course Title Attribute C Credits Courses

No		A.	AGLS 101	OR FIVS 101	Must make a grade of 'C' or better.
No	AND	B.	BICH 410 3hrs		Must make a grade of 'C' or better.
No	AND	C.	BICH 411 3hrs		Must make a grade of 'C' or better.
No	AND	D.	BICH 412 1hr		Must make a grade of 'C' or better.
No	AND	E.	Chemistry II Rqmt 4hrs	TAKE CHEM 120	Must make a grade of 'C' or better. Take CHEM 102, 112.
No	AND	F.	CHEM 227 3hrs		Must make a grade of 'C' or better.
No	AND	G.	CHEM 237 1hr		Must make a grade of 'C' or better.
No	AND	H.	CHEM 228 3hrs		Must make a grade of 'C' or better.
No	AND	I.	CHEM 238 1hr		Must make a grade of 'C' or better.

No	AND	J.	CHEM 316 (2hrs)/CHEM 318 (1hr) Must make a grade of 'C' or better.
No	AND	K.	PHYS 201 4hrs Must make a grade of 'C' or better.
No	AND	L.	PHYS 202 4hrs Must make a grade of 'C' or better.
No	AND	M.	Directed Electives 7hrs Must make a grade of 'C' or better. Select from ANTH 225, 425, 427; BIOL 213, 319-320, 351, 413, 430, 454; CHEM 318, 320, 325-328, 362, 415, 434, DASC 326 ; ENTO 403, 423, 428-429; FIVS 421; NFSC 325; GENE 412, 420, 450; PHYS 221; PSYC 305-306, 371; SCSC 301; SOCI 304; VIBS 305; VTPB 405, 425.

ANSC 326

Total Credits and GPA

unofficial evaluation

Area : Communication (6.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits
No		A.	Communication Requirement 6hrs										
													Select any courses with the Communication attribute [KCOM].

Total Credits and GPA 0.000

unofficial evaluation

Area : Mathematics (9.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits
No		A.	Math Rqmt I 3hrs										
													Select from MATH 140, 141, 166. Must make a grade of 'C' or better.
No	AND	B.	Math Rqmt II 3hrs										
													Select from MATH 131, 142, 171. Must make a grade of 'C' or better.
No	AND	C.	STAT 302 3hrs										
													Must make a grade of 'C' or better.

Total Credits and GPA 0.000

unofficial evaluation

Area : Life and Physical Sciences (12.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits
No		A.	BIOL 111 4hrs										
													Must make a grade of 'C' or better.
No	AND	B.	BIOL 112 4hrs										
													Must make a grade of 'C' or better.
No	AND	C.	Chemistry I Rqmt 4hrs										
													Take CHEM 101, 111 TAKE CHEM 119 Must make a grade of 'C' or better.

Total Credits and GPA 0.000

unofficial evaluation

Area : Language, Philosophy & Culture (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
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No	A.		Lang, Phil, Culture Rqmt 3hrs											

Select any course with the Language, Philosophy and Culture attribute [KLPC].

Total Credits and GPA 0.000

unofficial evaluation

Area : Creative Arts (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
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No	A.		Creative Arts Requirement 3hrs											

Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000

unofficial evaluation

Area : Social and Behavioral Sciences (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
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No	A.		Social Science Rqmt 3hrs											

Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000

unofficial evaluation

Area : Citizenship (12.000 credits) - Not Met

Description : Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
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No		A.	American History Rqmt 6hrs											

Select from any course with the [KHIS] attribute.

No	AND	B.	Political Science Rqmt 6hrs											

Take POLS 206 and POLS 207.

Total Credits and GPA

unofficial evaluation

Area : General Electives (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits
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No A. General Electives 3hrs
 Select from any course 100-499 not used elsewhere.

Total Credits and GPA 0.000

unofficial evaluation

Area : Work Not Applied - Met

Description : See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No A. Courses not applied

Total Credits and GPA

unofficial evaluation

Area : University Writing Requirement - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No A. Writing Requirement
 Two courses required.
 Only sections of FIVS 435, 481; UGST 491 with the Oral Communication attribute [UCRT] or the Writing attribute [UWRT] may be used to satisfy this requirement.

Total Credits and GPA 0.000

unofficial evaluation

Area : ICD & Foreign Language - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No A. Intern'l & Cult Diversity 6hrs
 Select from ~~TEEB 272~~ or any courses with the International and Cultural Diversity attribute [UICD] (except AGRO 489; ARCH 448; EURO 223, 323; JOUR 406; MODL 341-342; POLS 366; RUSS 341, 401; VTPB 221).
 Must make a grade of 'C' or better.

*3hrs ? CULTURAL DISCOURSE COURSE
 ? FROM CULTURAL DISCOURSE COURSE [UCDC] ?*

No AND B. Foreign Language Rqmt
 Complete one of the following:
 1. Two years of the same foreign language in High School.
 2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000

unofficial evaluation

Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits
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No A. Residence - Major 12hrs
 Select 12 hrs from FIVS 300-499.
 Courses must be completed at Texas A&M University.

No AND B. Residence Rqmt 300-499 24hrs

Select 24hrs from any 300-400 level course at Texas A&M University.

Total Credits and GPA

unofficial evaluation

Area : GPR-Major - Not Met

Description : A minimum GPR of 3.000 is required in all major field of studies courses.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	C
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No	A.		Major GPR 21+hrs										
			Includes FIVS 100-499.										

Total Credits and GPA

unofficial evaluation

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Print