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# **ENTOMOLOGY** TEXAS A&M UNIVERSITY

# 2021-2022

# **Undergraduate Student Handbook**

The purpose of the Department of Entomology Undergraduate Student Handbook is intended to be used as a supplement to the Texas A&M University Catalog. It is to provide information and references you need to fulfill your responsibilities as a student in the Department of Entomology. You bear the responsibility for being fully acquainted with and complying with the rules, policies and requirements of Texas A&M University, the College of Agriculture and Life Sciences and your degree program.

You are advised to use this handbook, along with other important information sources, for guidance in the Department of Entomology undergraduate programs. When information regarding policies and procedures is needed, please refer to one of these publications or contact your advisor.

While every effort has been made to make this handbook as complete and accurate as possible, changes may occur at any time in requirements, deadlines and curricula listed in the handbook.

# HOWDY!

# Welcome to the Department of Entomology at Texas A&M University!

Welcome to one of the largest and top entomology departments in the United States. Based on its outstanding students, staff and faculty, excellent facilities, and exceptionally diverse programs that improve lives throughout Texas, the region, and the world; Texas A&M is an exciting and unique place to learn. Regarded as leaders in dozens of disciplines, the members of our academic family work to feed our world, protect our environment, improve public health, grow the economy and enrich our youth.

The Department of Entomology offers two undergraduate degrees, a traditional major in Entomology (ENTO) and a major in Forensic and Investigative Sciences (FIVS). Each major is designed to help you change the world. Your undergraduate degree will also prepare you for graduate and professional schools and for a wide variety of career opportunities.

As a student here at Texas A&M, there are many opportunities to develop your leadership skills through participation in a wide array of extracurricular activities, including Departmental and College student organizations and continuing education/youth programs. A student can also gain experience in a variety of disciplines and are able to pay for part of their college expenses through part-time employment within the Department, University, or as recipients of Departmental scholarships.

Again, welcome to the Department of Entomology and to Texas A&M University. We look forward to working with you as you earn your degree with us!

# **Department of Entomology**

# Administration



Dr. Phillip Kaufman Department Head beginning July 1, 2020 412 HPCT 979-845-2510 pkaufman@tamu.edu



## Dr. Craig Coates

Instructional Associate Professor & Associate Department Head for Academic Programs, Associate Dean for Inclusive Excellence 412E HPCT 979-458-1219 ccoates@tamu.edu



### **Dr. Aarone Tarone**

Professor, Director of the Forensic and Investigative Sciences Program, Associate Department Head for Undergraduate Education 420 HPCT 979-862-1311 aaron.tarone@ag.tamu.edu



#### Dr. Adrienne Brundage

Assistant Instructional Professor, Assistant Director, Forensic and Investigative Sciences Program 404A HPCT 979-845-9731 <u>adrienne.brundage@ag.tamu.edu</u>

# Department of Entomology Academic Advisors

Academic Advisors in the Kleberg Advising Hub are available to assist students with course scheduling, academic progress, and career opportunities. The following advisors in the Kleberg Advising Hub service the Department of Entomology:



## Jennifer Rhinesmith-Carranza

Senior Academic Advisor Entomology, Forensic & Investigative Sciences 114F Kleberg Center 979-845-9733 jrcarranza@tamu.edu



David Wellman Academic Advisor II Entomology, Forensic & Investigative Sciences, Biochemistry, Genetics 114A Kleberg Center 979-845-9733

david.wellman@ag.tamu.edu

Advising Hours: Monday—Friday

9:00 a.m. to 11:30 a.m. and 1:30 p.m. to 4:00 p.m.

Appointments are preferred. Walk-ins are designed for quick answers.

To schedule an appointment, please use Navigate: https://studentsuccess.tamu.edu/NAVIGATE/For-Students

## **Email Communication with Advisors**

- Always use your TAMU Email address when emailing your academic advisor
- Always include your full name and TAMU UIN
- Allow at least 48 hours for a response
- Be respectful, courteous, professional and mindful of sensitive information
- Check your TAMU Email account on a daily basis. Important notices and reminders will be sent to your TAMU Email address you are responsible for this knowledge!

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# **Student and Advisor Responsibilities**

The Department of Entomology strives to enhance the student's intellectual and personal growth, to sharpen the student's decision-making skills, and to integrate the student's academic and future career plans. To do this, academic advisors and students are expected to do the following:

#### Academic Advisor Responsibilities—What You can Expect Me to Do

Academic advisors assist students in formulating realistic educational and professional goals and steps necessary in attaining them. As your advisor, you can expect me to:

- Protect and secure the integrity of your degree by enforcing all university and departmental policies and requirements
- Treat you with respect as an adult by listening carefully to your questions, concerns and problems
- Understand and effectively communicate the curriculum, requirements, and academic policies and procedures
- Assist you in making academic decisions consistent with your goals, interests and abilities
- Provide referrals to campus resources and services appropriate to your needs
- Monitor and accurately document your progress toward meeting your educational goals
- Maintain confidentiality (will not discuss issues with parents or non-university persons without your written permission; will respond to academic questions only via tamu.edu email accounts)

### Advisee (Student) Responsibilities – What You are Expected to Do

As an advisee, you have clear responsibilities in this partnership in order to be successful:

- Be respectful by being on time, prepared and treating advisors and other students as you would wish to be treated
- Be an active learner by participating fully in the advising experience, ask questions if you do not understand an issue or have a specific concern
- Keep a personal record of your progress toward your academic goals; be open to clarifying personal values and goals
- Read all correspondence from the department and university and act accordingly
- Be proactive in checking often the electronic resources via HOWDY Portal to keep track of your academic progress (Degree Evaluation, Unofficial Transcript, Course Offerings)
- Become knowledgeable about college programs, degree requirements, policies, and procedures
- Use campus resources to enhance your academic experience and develop personal and professional goals

Ultimately, you bear responsibility for seeking adequate academic advising, for knowing and meeting degree requirements, for enrolling in appropriate courses to ensure timely progress toward degree and for making decisions consistent with your academic, personal and professional goals.

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## **Policies and Procedures of Academic Advising**

- Your Advisor: It is not mandatory, but highly recommended that you schedule an appointment with your advisor at least once a semester. Your advisor will discuss course options, address academic problems or concerns, make suggestions/recommendations about the upcoming semester, and explore major/minor options. If you find yourself on academic caution or probation, it will be mandatory for you to meet with your advisor prior to registration for the upcoming semester.
- Scheduling: Appointments are scheduled via the ENTO website.
- Walk-Ins: Walk-In appointments are available; however, please be aware that advisors may be committed to previously scheduled appointments and/or meetings. We will do our best to meet with you in a timely manner.
- Cancellation of Appointments: We recognize situations arise that may create a need to reschedule or cancel your appointment. A minimum two (2) hour prior-notification is requested. Reciprocal courtesy will be extended to students should Advisors need to cancel.
- No Show Policy: This policy is not meant to be punitive, but to be fair and equitable to all students. During peak advising periods, appointments are premium. If you do not notify the office two (2) hours in advance that you are unable to keep the appointment, your absence will be noted as a "no-show". After two no-shows, you will NOT be able to schedule an appointment until after the last TAMU registration entry time.
- Etiquette: Please arrive five (5) minutes early for your appointment. If you are going to be late for your appointment, please notify the advising office immediately. Whether you are waiting in the ENTO advising office or meeting with your advisor, please turn off your cell phone and text messaging devices.
- Communications Protocol: E-Mail communication via a student's TAMU email account is the official method of communication at Texas A&M University. Due to privacy regulations, your advisor will communicate solely through the university assigned TAMU Email Account. While some inquiries may be resolved through email correspondence, most situations benefit from scheduling a face-to-face appointment for further discussion. Also, due to privacy issues, it is preferred that you do not bring a friend into your appointment. They may wait in the waiting area.

#### Advising Tools and Resources:

- Entomology Department Website: http://entomology.tamu.edu/
- College of Agriculture & Life Sciences Website: http://aglifesciences.tamu.edu/
- Howdy Portal: http://howdy.tamu.edu (Degree Evaluation, Course Registration, Holds, Unofficial Transcript)
- Academic Calendar: http://registrar.tamu.edu/Catalogs,-Policies-Procedures/Academic-Calendar
- University Catalog: http://catalog.tamu.edu/
- How to Calculate your GPA: http://registrar.tamu.edu/Transcripts-Grades/How-to-Calculate-GPA

Catalog 143 (Fall 2020)

Year 2020-2021

#### Department of Entomology Curricula in Entomology

			Freshman	Year			
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
ENTO 101 or AGLS 101	1			CHEM 120	4		
CHEM 119	4			BIOL 112	4		
ENTO 201	3			MATH 142 or PHIL 240	3		
MATH 140	3			Communications elective (1)	3		
BIOL 111	4					1	
40 ·	15				14		

Sophomore Year							
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
POLS 206	3			Communications Elective (1)	3		
American History elective (1)	3			POLS 207	3		
Organic Chemistry elective (3)	3			American History elective (1)	3		
Social & Behavioral science elective (1)	3			Language, Phil & Culture elective (1)	3		
ENTO 482	2			Technical Elective (2)	3		
Elective	1						
	15				15		

0			Junio	r Year	•		
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
ENTO 305	3			ENTO 301	4		
ENTO 306	3			ENTO 424	3		
Elective	3			GENE 301/312	4		
Technical elective (2)	7			Creative Arts elective (1)	3		
				ENTO 481	1		
R-	16				15		

			Senio	r Year			
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
ENTO 428	3			ENTO 435	3		
ENTO 429	1			ENTO 484 or 491	2		
Elective	3			Electives	5		
Technical electives (2)	7			Technical electives (2)	6		
	14				16		

**Total Hours** 

#### Notes:

1. To be selected from the University Core Curriculum and in consultation with student's academic advisor in the department. See the list of approved courses, core.tamu.edu.)

2. Technical electives must be selected in consultation with the student's advisor or from the current list of approved electives published by the department.

3. CHEM 222 or 227.

#### Additional Requirements for Baccalaureate Degree

Foreign Language (2 yrs same language in HS, 1 yr college) Writing Intensive Course (2 course designated W in major or 1 W and 1 C course in major) International and Cultural Diversity Courses (3 credit hours) Cultural Discourse Course (3 credit hours)

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#### Technical Electives: (choose from)

ACCT 209 (3), AGEC 314 (3), AGEC 316 (3), AGEC 330 (3), AGEC 340 (3), ALED 440 (3), ANSC 107 (3), ANSC 108 (1), ANSC 305 (3), ANSC 307 (3)SCSC 105 (3), SCSC 301 (3), SCSC 303 (4), SCSC 304 (4), SCSC 306 (4), SCSC 405 (4), SCSC 422 (3), SCSC 445 (3), SCSC 450 (3), SCSC 455 (3), AGSM 335 (3), ANSC/NUTR 303 (3), ANSC 310 (3), ANSC 318 (3), ANSC 320 (3), BESC 201 (3), BESC 401 (3), BESC 402 (3), BICH 303 (3), BICH 410 (3), BICH 411 (3), BICH 431 (3), BIOL 213 (3), BIOL 330 (3), BIOL 357 (3), BIOL 358 (1), BIOL 413 (3), CHEM 228 (3), CHEM 238 (1), COMM 203 (3), ENTO 208-299, 313, 315, 320, 322, 330, 401, 402, 403, 405, 412, 423, 431, 432, 440, 485, 489, FSTC 326 (3), FSTC 327 (1), GENE 405 (3), GENE 406 (3), GENE 412 (3), HORT 201 (3), HORT 301 (3), HORT 308 (3), HORT 315 (3), BIOL 206 (4), BIOL 351 (4), BIOL 456 (4), MEPS 313 (3), PHYS 201 (4), PHYS 202 (4), PLPA 301 (3), PLPA 303 (1), STAT 302 (3), VTPB 409 (3), VTPB 409 (3), VTPB 405 (5), BIOL 319 (4), BIOL 320 (4), RENR 205 (3)

## **Entomology Course Descriptions**

#### ENTO 101 - Introduction to Academic Success in Entomology. — Credit 1.

Orientation to academic success within higher education and specifically the Bachelor of Science degree in entomology; awareness of academic and campus support services available for student success; development of goals for academic and career planning, including creation and utilization of degree planner; awareness of personal self-management strategies, including learning styles, time management, goal setting, stress management and development of personal strategies for implementation of personal self-management into practice.

#### ENTO 201 General Entomology—Credits 3. 2 Lecture Hours. 2 Lab Hours.

Survey of the major classes of arthropods with special emphasis on species of economic or biological importance; general insect anatomy, physiology, metamorphosis and classification; survey of the biologies of insect orders and major families using common injurious and beneficial species to relate material to production agriculture and the urban environment.

#### ENTO 208 Veterinary Entomology—Credits 2. 2 Lecture Hours. 2 Lab Hours.

Classification, biology and control of insects and other arthropods associated with livestock and poultry production; identification emphasized in laboratory.

#### ENTO 209 Veterinary Entomology Laboratory — Credit 1. 2 Lab Hours.

Insects and their relatives causation of economic loss, impacts to well-being and transmission of disease pathogens to domestic and companion animals and wildlife, as well as health and well-being of humans through occupational or recreational exposure; laboratory emphasizes identification of major arthropod pests, use of microscopy and dissection equipment.

Prerequisite: Concurrent enrollment with ENTO 208.

## ENTO 210 Global Public Health Entomology—Credits 3. 3 Lecture Hours.

Impacts of insects and insect-borne diseases on public health and well-being around the globe; insect biology, bloodfeeding, and transmission of human diseases; role of insect borne diseases on human history, socioeconomic development, and public health infrastructure.

Prerequisite: Freshman or sophomore classification or approval of instructor.

### ENTO 285 Directed Studies—Credits 1 to 4. 1 to 4 Other Hours.

Directed individual study in entomology. Prerequisites: Freshman or sophomore classification; approval of instructor and department head.

### ENTO 289 Special Topics in... - Credits 1 to 4. 1 to 4 Lecture Hours.

Selected topics in an identified area of entomology. May be repeated for credit. **Prerequisite:** Approval of instructor.

### ENTO 291 Research—Credits 1 to 4. 1 to 4 Other Hours.

Research conducted under the direction of faculty member in entomology. May be repeated 2 times for credit.

Prerequisites: Freshman or sophomore classification and approval of instructor.

#### ENTO 300/WFSC 300 Field Studies — Credits 3. 3 Other Hours.

Integration of principles of animal and plant ecology with environmental factors to characterize wildlife populations. Intensive analysis of specific areas will emphasize either the development of a wildlife management plan or a general vertebrate natural history survey.

Prerequisite: Junior or senior classification.

Cross Listing: WFSC 300/ENTO 300.

#### ENTO 301 Biodiversity and Biology of Insects—Credits 4. 3 Lecture Hours. 3 Lab Hours.

Introduction to orders and most important families of insects; order-level morphology and family-level natural history; collection of insects identified to family level provides introduction to collection methods and specimen preparation.

**Prerequisites:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; BIOL 111 and BIOL 112; junior or senior classification or approval of instructor.

#### ENTO 306 Insect Physiology—Credits 4. 3 Lecture Hours. 3 Lab Hours.

Physiology of insects; structure and function of internal organ systems and their role in insect success. **Prerequisite:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; <u>BIOL 111</u> and <u>BIOL 112</u>; <u>CHEM 101/CHEM 111</u> and <u>CHEM 102/CHEM 112</u>.

#### ENTO 320 Honey Bee Biology—Credits 3. 3 Lecture Hours.

Introduction of honey bee biology and beekeeping practices to science and non-science majors; honey bees as the model insect to introduce general principles of biology and entomology. **Prerequisite:** Junior or senior classification or approval of instructor.

#### ENTO 321 Beekeeping — Credit 1. 3 Lab Hours.

Basic Knowledge and techniques used in apiculture; tools and knowledge needed to keep bees responsibly and productively.

Prerequisites: ENTO 320 or concurrent enrollment, junior or senior classification or approval of instructor.

#### ENTO 322 Insects and Human Society—Credits 3. 3 Lecture Hours.

Emphasis on the role insects have played in the development of human cultures; aspects include health, food production and storage, art, music and architecture; overview of historic, present day, and future roles insects will have on environmental movements (green societies), and in underdeveloped, developing and developed societies.

Prerequisite: Junior or senior classification.

#### ENTO 401 Principles of Integrated Pest Management—Credits 3. 2 Lecture Hours. 3 Lab Hours.

Integrated pest management (IPM) concepts, principles, development and application; IPM constitutes a series of pest control tactics and strategies toward more sustainable agriculture, natural resources, and urban and rural health and well-being.

Prerequisite: ENTO 201 or ENTO 208 and ENTO 209.

#### ENTO 402 Field-Crop Insects—Credits 3. 2 Lecture Hours. 3 Lab Hours.

Application of management strategies for insect/mite pests of small grains, corn, cotton, rice, sorghum, stored products and sunflower; nature and symptoms of damage, life history and habits of common pests. Laboratory consists of pest and pest damage identification supported by field trips. **Prerequisite:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>.

#### ENTO 403 Urban Entomology—Credits 3. 2 Lecture Hours. 3 Lab Hours.

Biology, economic importance and control strategies for arthropod pests commonly invading households and commercial structures in urban environments; laboratory consists of urban pest identification and special presentations and demonstrations covering topics related to urban pest problems and their control. Offered in 2011-2012 academic year and alternating years thereafter.

Prerequisite: ENTO 201 or ENTO 208 and ENTO 209 or approval of instructor.

#### ENTO 423 Medical Entomology -Credits 3. 2 Lecture Hours. 3 Lab Hours.

Biologies, disease relationships, and control of insects and other arthropods parasitic on or in humans; aspect of the fields of clinical and preventative medicine; survey, collection and taxonomy of medicallyimportant arthropods in laboratory sessions.

Prerequisite: BIOL 111; Junior or senior classification or approval of instructor.

#### ENTO 424 Insect Ecology—Credits 3. 2 Lecture Hours. 3 Lab Hours.

Provides basic ecological background with an applied interpretation, emphasizing influences of insect populations and communities on ecosystem processes that influence landscape structure, function and change.

**Prerequisites:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; <u>BIOL 111</u>; junior or senior classification or approval of instructor.

#### ENTO 425 Disease Ecology—Credits 3. 3 Lecture Hours.

Ecological interactions that influence the distribution and abundance of pathogens, vectors, and hosts ultimately determine the spread of disease; impacts of urbanization, climate change, and other human influenced environmental changes on disease dynamics; integration of disease ecology into pathogen and vector monitoring and comprehensive strategies to reduce disease occurrence.

**Prerequisite:** <u>ENTO 208</u> and <u>ENTO 209</u>; Junior or senior classification, or approval of instructor.

#### ENTO 426 Methods in Vector-Borne Disease Ecology — Credits 3. 1 Lecture Hours. 5 Lab Hours.

Methodological understanding of how vector-borne diseases are studied in the field and laboratory; hands -on exploration of the ecology disease systems in a one health framework; concepts of design, execution and presentation of research projects; outdoor field work and bio-safety level 2 laboratory. **Prerequisite:** Junior or senior classification, or approval of instructor. **Cross Listing:** <u>VIBS 426</u>.

#### ENTO 428 Insect Biotechnology—Credits 3. 3 Lecture Hours.

Applications of genetic engineering and biotechnology; specific problems dealing with insects and control of insect pests.

**Prerequisites:** <u>GENE 301</u> and <u>GENE 312</u> or <u>GENE 315</u> or <u>GENE 320/BIMS 320</u>; junior or senior classification or approval of instructor.

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#### ENTO 429 Insect Biotechnology Laboratory—Credit 1. 3 Lab Hours.

Basic technical experience in insect molecular biology and biotechnology, including genomic DNA isolation, PCR, cloning, sequencing and gene manipulation techniques; focus on insect applications for improvement of human health and agriculture.

**Prerequisites:** Concurrent enrollment in <u>ENTO 428</u>; junior or senior classification or approval of instructor.

#### ENTO 431/FIVS 431 The Science of Forensic Entomology—Credits 3. 3 Lecture Hours.

Explores the science, methodology and technology employed to gather, preserve and present information about insects and other arthropods in such a manner that this information can be used in courts of law as evidence and testimony to help resolve issues of a criminal or civil nature.

Prerequisite: Junior or senior classification or approval of instructor.

Cross Listing: FIVS 431/ENTO 431.

#### ENTO 432/FIVS 432 Applied Forensic Entomology—Credit 1. 3 Lab Hours.

Laboratory-based course offering practical experience using scientific information, methodology, technology, and legal procedures inherent to the field of forensic entomology; emphasis on collecting, preserving, and identifying information as evidence and expert witness testimony in courts of law.

**Prerequisites:** Concurrent enrollment in ENTO 431/FIVS 431; junior or senior classification or approval of instructor.

Cross Listing: FIVS 432/ENTO 432.

#### ENTO 435 Case Studies in Problem Solving—Credits 3. 3 Lecture Hours.

Development of reasoning strategies by examining a variety of case studies, science and scientific methods; solving real-world problems as part of an investigative team.

Prerequisite: ENTO 201 or ENTO 208 and ENTO 209; Senior classification or approval of instructor.

#### ENTO 450/WFSC 450 Caribbean Conservation—Credits 2. 6 Lab Hours.

Provide experience in and appreciation for diverse tropical habitats and the problems associated with conserving these habitats; design and conduct individual research projects on topics of their choice with approval from the instructors on project design and feasibility.

**Prerequisites:** Concurrent enrollment in <u>ENTO 300/WFSC 300</u> and <u>ENTO 451/WFSC 451</u>; junior or senior classification.

Cross Listing: WFSC 450/ENTO 450.

#### ENTO 451/WFSC 451 Caribbean Research Seminar— Credit 1. 1 Other Hour.

Document research activities; keep a journal of activities and research methods during study abroad trips. **Prerequisites:** Concurrent enrollment in ENTO 300 and 450; junior or senior classification. **Cross Listing:** <u>WFSC 451/ENTO 451</u>.

#### ENTO 455 - Field Entomology in the Tropics — Credit 3.

Intensive hands-on, field-based experiences in Costa Rica at the Texas A&M Soltis Center for Research and Education; study of insect diversity, behavior and natural history and insight into the challenges in conserving biodiversity.

**Prerequisites:** Grade of C or better in BIOL 111 and BIOL 112; or approval of instructor; any course in entomology recommended.

#### ENTO 481 Seminar—Credit 1. 1 Lecture Hour.

Report of original investigations, current literature and special features of entomology. **Prerequisites:** <u>ENTO 201</u> or equivalent; junior or senior classification; ENTO majors only.

#### ENTO 482 Occupational and Professional Development—Credits 2. 2 Lecture Hours.

Organized instruction in written and oral communication; acquaint students with private and public-sector companies and agencies as well as leading professionals from these firms to reinforce academic instruction and prepare students for the transition to employment, graduate and professional schools. **Prerequisite:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; or approval of instructor.

#### ENTO 484 Professional Internship—Credits 1 to 4. 1 to 4 Other Hours.

Independent study and supervised field experience related to a professional area of interest in entomology. May be taken two times for credit.

**Prerequisite:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; Junior or senior classification or approval of instructor.

#### ENTO 485 Directed Studies—Credits 1 to 4. 1 to 4 Other Hours.

Individual problems.

**Prerequisites:** <u>ENTO 201</u> or <u>ENTO 208</u> and <u>ENTO 209</u>; junior or senior classification; approval of instructor and department head.

#### ENTO 489 Special Topics in... - Credits 1 to 4. 0 to 4 Lecture Hours. 0 to 4 Lab Hours.

Selected topics in an identified area of entomology. May be repeated for credit. **Prerequisite:** Approval of instructor.

#### ENTO 491 Research—Credits 1 to 4. 1 to 4 Other Hours.

Faculty supervised research in entomology. May be taken two times for credit. Registration in multiple sections of this course are possible within a given semester provided that the per semester credit hour limit is not exceeded.

Prerequisites: Junior or senior classification or approval of instructor.



Year 2020-2021

#### Department of Entomology Curricula in Forensic & Investigative Sciences - Science Emphasis Area (FIVS-SCE)

#### Freshman Year (Lower Level - Major Indicated as FIVL)

1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
FIVS 101 or AGLS 101	1			BIOL 112	4		
BIOL 111	4			CHEM 120	4		
CHEM 119	4			Communication elective (1)	3		
MATH 140	3			MATH 142	3		
FIVS 205	3						
	14						

#### Sophomore Year (Lower Level - Major Indicated as FIVL)

1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
CHEM 227/237	4			CHEM 228/238	4		
PHYS 201	4			PHYS 202	4		
Communication elective (1)	3			Language, Philosophy & Culture elective	3		
U.S. History elective (1)	3			U.S. History elective (1)	3		
	14				14		

Students should complete the Upper Level Intent form during the semester in which they are completing the courses in boid (common body of knowledge - CBK - courses) and submit this form to the Academic Advising Office, Rm 404 HPCT. Students will be required to have a minimum 3.0 cumulative GPR as well as a "C" or better in each of these boided classes before being eligible to move to the FIVS upper level. Entrance to upper level FIVS is required before a student is able to enroll in the upper-division (300 & 400-level) FIVS courses.

Junior Year							
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
FIVS 482	2			FIVS 481	1		
BICH 410	3			FIVS 431/432	4		
BICH 412	1			BICH 411	3		
FIVS 308	4			Creative Arts elective (1)	3		
CHEM 316	2			Political Science elective (1)	3		
CHEM 318	1			FIVS 422	2		
Directed electives (2)	3						
	16				16		

Senior Year								
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub	
FIVS 484 or 491	2			FIVS 415	3			
FIVS 316	4			FIVS 435	3			
FIVS 401	3			STAT 302	3			
Political Science elective (1)	3			Social & Behavioral Science elective (	3			
Directed electives (2)	4			Elective	3			
	16				15			

#### Total Hours Required for the Degree

#### Notes:

1. To be selected from the University Core Curriculum and in consultation with student's academic advisor in the department.

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Directed electives must be selected in consultation with the student's advisor based on career and educational goals and from the current list of approved list published by the department and included on this worksheet.

#### Additional Requirements for Baccalaureate Degree

Foreign Language (2 yrs same language in H8, 1 yr college) Writing Intensive Course (2 course designated W in major) International and Cultural Diversity Course (3 credit hours) Cultural Discourse Course (3 credit hours) Students must meet University Residency Requirement for Graduation of 36 credit hours at the 300/400-level

#### Directed Electives for the Science Emphasis Area: (choose from)

ANTH 225 (3); ANTH 425 (3); ANTH 427 (3); BIOL 213 (3); BIOL 319 (4); BIOL 320 (4); BIOL 351 (4); BIOL 413 (3); BIOL 430 (4); BIOL 454 (3); BIOL 460 (3); CHEM 320 (2); CHEM 327 (3); CHEM 325 (1); CHEM 328 (3) CHEM 326 (1); CHEM 362 (3); CHEM 415 (3); CHEM 434 (2); ENTO 403 (3); ENTO 423 (3); ENTO 428 (3); ENTO 429 (1); FIVS 421 (2); FSTC 326/ANSC 326 (4); GENE 412 (3); GENE 420 (3); GENE 450 (3); PHYS 221 (3); PSYC 305 (3); PSYC 306 (3); PSYC 371 (3); SCSC 301 (3); SOCI 304 (3); VIBS 305 (4); VTPB 405 (5); VTPP 425 (3); VTPP 429 (3), FIVS 289, FIVS 489

NOTE: Use of this worksheet does not replace personal advising by a member of the Forensic & Investigative Sciences Academic Advising Team. You are strongly encouraged to meet with an Academic Advisor at least once per semester to discuss any questions that you may have.

Students are required to earn a "C" or better in all courses required within this degree program.

Year 2022-2023

#### Department of Entomology Curricula in Forensic & Investigative Sciences - Pre-Law Emphasis Area (FIVS-LWE)

Freshman Year (Lower Level - Major Indicated as FIVL)							
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub
FIVS 101 - FYE	1			BIOL 112		4	
BIOL 111	4			MATH 142 or PHIL 240		3	
FIVS 205 - Introduction	3			FIVS 102 - FYE		)	
MATH 140	3			Creative Arts elective (1)		3	
Communication elective (1)	3			U.S. History elective (1)		3	
	14	ſ		Communication elective (1)		3	

#### 16 Sophomore Year (Lower Level - Major Indicated as FIVL) 1st Semester 2nd Semester SCH Grade Sub SCH Grade Sub FIVS 215 - Forensic Microscopy CHEM 222 CHEM 119 FIVS 220 - Impression Evidence FIVS 210 - Forensic Photography J.S. History elective (1) 3 Social & Behavioral Science elective (1) Language, Philosophy & Culture elective(1) 2 Political Science elective (1) Political Science elective (1) 14 14

Junior Year								
1st Semester	SCH	Grade	Sub	2nd Semester	SCH	Grade	Sub	
FIVS 482 - Professional Development	2			FIVS 481 (W) - Seminar 🛛 📃 📉	1			
FIVS 308 - Inheritance	4			BICH 303	3			
STAT 303	3			FIVS 422 - CSI	2			
Directed elective (2)	3			Directed elective (2)	3			
Directed elective (2)	3			Directed elective (2)	3			
				Directed elective (2)	3			
	15				15			

#### Senior Year 1st Semester Grade SCH SCH Sub 2nd Semester Grade Sub FIVS 420 - Controlled Substances FIVS 425 - Digital Forensics FIVS 484 or 491 -Internship/Research FIVS 431 - Forensic Entomology FIVS 401 - Forensic Soil Science 3 FIVS 440 - Forensic Comm. (C) 1 Directed elective (2) 3 Directed elective (2) 3 Directed elective (2) 3 Directed elective (2) 3 3 Directed elective (2) 3 Directed elective (2) 16 16

#### Total Hours Required for the Degree

#### Notes:

1. To be selected from the University Core Curriculum and in consultation with student's academic advisor in the department. Six hours of international and cultural diversity electives are also required; these courses may fulfill other degree requirements as well.

120

2. Students must choose one course (minimum three hours) from each of the three categories of pre-law directed electives. The remaining pre-law directed electives must be selected in consultation with the student's advisor based on career and educational goals and from the current list of approved list published by the department and included on this worksheet.

#### Additional Requirements for Baccalaureate Degree

Foreign Language (2 yrs same language in HS, 1 yr college) Writing Intensive Course (2 course designated W in major) International and Cultural Diversity Courses (3 credit hours)

Students must meet University Residency Requirement for Graduation of 36 credit hours at the 300/400-level

Students are required to earn a "C" or better in all courses required within this degree program.

#### Directed Electives for the Pre-Law Emphasis Area:

Cultural Discourse Course (3 credit hours)

A. Category I (Select minimum of 3 hours from): AGEC 105 (3); AGEC 315 (3); AGEC 344 (3); RENR 470 (3); SOCI 445 (3); AGEC 350 (3); AGEC 429 (3); ECON 202 (3); ECON 322 (3); ECON 323 (3); ECON 420 (3); ESSM 406 (3); MGMT 209 (3); MGMT 212 (3); POLS 351 (3); POLS 356 (3); PSYC 305 (3); PSYC 306 (3); RPTS 420 (3); SOCI 211 (3); SOCI 305 (3); SOCI 314 (3); URPN 401 (3); URPN 461 (3); URPN 450 (3); WFSC 303 (3)

B. Category II (Select minimum of 3 hours from): ALED 340 (3); COMM 203 (3); COMM 243 (3); COMM 305 (3); COMM 325 (3); COMM 443 (3); PSYC 354 (3); PSYC 371 (3); SOCI 304 (3)

C. Category III (Select minimum of 3 hours from): ALED 202 (3); ALED 301 (3); ALED 424 (3); ALED 440 (3); BIMS 470 (3); FIVS 421 (2); GENE 420 (3); HIST 447 (3); PHIL 111 (3); PHIL 307 (3); PHIL 314 (3); PHIL 315 (3); PHIL 334 (3), FIVS 289, FIVS 489

NOTE: Use of this worksheet does not replace personal advising by a member of the Forensic & Investigative Sciences Academic Advising Team. You are strongly encouraged to meet with an Academic Advisor at least once per semester to discuss any questions that you may have.

## Forensic and Investigative Sciences Course Descriptions

#### FIVS 101 - Introduction to Academic Success in Forensic and Investigative Sciences. — Credit 1.

Orientation to academic success within higher education and specifically the Bachelor of Science degree in forensic and investigative sciences; awareness of academic and campus support services available for student success; development of goals for academic and career planning, including creation and utilization of degree planner; awareness of personal self-management strategies, including learning styles, time management, goal setting, stress management and development of personal strategies for implementation of personal self-management into practice.

#### FIVS 123 Forensic Investigations—Credits 3. 3 Lecture Hours.

Overview of forensics from incident scene to court room verdict; principles, concepts, tools and methodologies used in the science and practice of forensics; examination of various forensic fields; evidence recognition, analysis, interpretation and presentation to diverse audiences.

#### FIVS 205 Introduction to Forensic and Investigative Sciences—Credits 3. 3 Lecture Hours.

(FORS 2440) Introduction to Forensic and Investigative Sciences. Overview of principles, procedures, and concepts of forensic and investigative sciences; instruction in the definitions, scope, and use of tools, techniques and protocols in forensic applications used to resolve social, regulatory, and legal disputes. **Prerequisite:** Freshman or sophomore classification or approval of instructor.

#### FIVS 285 Directed Studies—Credits 1 to 4.0 to 4 Lecture Hours. 0 to 4 Lab Hours. 0 to 4 Other Hours.

Directed individual study in forensic and investigative sciences. May be repeated for credit. **Prerequisites:** Freshman or sophomore classification; approval of instructor and department head.

#### FIVS 289 Special Topics in... - Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.

Selected topics in an identified area of forensic and investigative sciences. May be repeated for credit.

#### FIVS 291 Research—Credits 1 to 4. 1 to 12 Lab Hours.

Research conducted under the direction of a faculty member in the department of entomology. May be repeated 3 times for credit.

Prerequisite: Freshman or sophomore classification.

#### FIVS 308 Forensic Implications of Inheritance—Credits 4. 3 Lecture Hours. 3 Lab Hours.

Forensic genetics with an emphasis on human molecular genetics, population genetics, and genetic application in the forensic sciences.

**Prerequisites:** <u>BIOL 112</u>; upper division in forensic and investigative sciences; junior or senior classification.

#### FIVS 316 Biotechnology and Forensics—Credits 4. 3 Lecture Hours. 3 Lab Hours.

Introduction of applications of biotechnology for agriculture and human health purposes; description of experimental protocols used to create genetically modified organisms (GMOs); discussion of the risks, benefits, and regulations controlling the use of biotechnology in society.

Prerequisites: <u>FIVS 308</u> or approval of instructor.

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#### FIVS 401/SCSC 401 Forensic Soil Science—Credits 3. 2 Lecture Hours. 2 Lab Hours.

Examination of soils biology, chemistry and physical attributes to solve crimes; soil and geologic characteristics associated with crime scene examination; physical, biological and chemical characteristics and use of trace evidence.

Prerequisite: <u>FIVS 482</u>; Junior or senior classification. Cross Listing: <u>SCSC 401/FIVS 401</u>.

#### FIVS 415 Practice and Principles of Science and Law—Credits 3. 3 Lecture Hours.

Introduction to series of practitioners of forensic science and the justice system; receive instruction on principles, procedures, and practices used in solving legal and societal issues; examine scientific method and scientific knowledge as applied through expert testimony; enhance critical thinking and reasoning skills in studying and debating different positions of current issues of science and law. **Prerequisites:** <u>FIVS 205</u>, <u>FIVS 316</u>, <u>FIVS 431/ENTO 431</u> and <u>FIVS 432/ENTO 432</u>; senior classification or approval of instructor; concurrent enrollment with FIVS 435.

#### FIVS 421 Latent Print Processing—Credits 2. 1 Lecture Hour. 3 Lab Hours.

Information, techniques, and methodologies for processing latent fingerprints and enhancing visible fingerprints at and from crime scenes, as well as from physical evidence.

**Prerequisites:** <u>FIVS 205</u> and <u>FIVS 422</u>, upper division forensic and investigative sciences academic standing, and approval of instructor.

#### FIVS 422 Crime Scene Investigation—Credits 2. 1 Lecture Hour. 3 Lab Hours.

Principles, procedures, processes and hands-on experience for conducting investigations ranging from general crime scene to death investigations.

**Prerequisites:** <u>FIVS 205</u>, upper division forensic and investigative sciences academic standing, and approval of instructor.

#### FIVS 431/ENTO 431 The Science of Forensic Entomology—Credits 3. 3 Lecture Hours.

Explores the science, methodology and technology employed to gather, preserve, and present information about insects and other arthropods in such a manner that this information can be used in courts of law as evidence and testimony to help resolve issues of a criminal or civil nature.

**Prerequisites:** Concurrent enrollment with <u>FIVS 432/ENTO 432</u>; Junior classification or approval of instructor.

Cross Listing: ENTO 431/FIVS 431.

#### FIVS 432/ENTO 432 Applied Forensic Entomology—Credit 1. 3 Lab Hours.

Laboratory-based course affording practical experience using scientific information, methodology, technology, and legal procedures inherent to the field of forensic entomology; emphasis on collecting, preserving, and identifying information as evidence and expert witness testimony in courts of law.

**Prerequisites:** Concurrent enrollment with <u>FIVS 431/ENTO 431</u>; junior classification or approval of instructor.

Cross Listing: ENTO 432/FIVS 432.

#### FIVS 435 Case Studies in Problem Solving—Credits 3. 3 Lecture Hours.

Development of reasoning strategies by examining a variety of case studies; science and scientific method solving real-world problems as part of an investigative team.

Prerequisite: FIVS 316; Senior classification or approval of instructor; concurrent enrollment with FIVS 415.

#### FIVS 481 Seminar—Credit 1. 1 Lecture Hour.

Analysis of research topics related to the fields of forensic science and law. May be taken 4 times for credit. **Prerequisite:** <u>FIVS 482</u>; Junior or senior classification or approval of instructor.

#### FIVS 482 Occupational and Professional Development—Credits 2. 2 Lecture Hours.

Organized instruction in written and oral communication; acquaint students with private and public-sector companies and agencies as well as leading professionals from these firms to reinforce academic instruction and prepare students for the transition to employment, graduate and professional schools. **Prerequisite:** Junior or senior classification or approval of instructor.

#### FIVS 484 Professional Internship—Credits 1 to 4. 1 to 12 Lab Hours.

Independent study and supervised field experience related to a professional area or interest in forensic science. May be taken 3 times for credit.

Prerequisite: Junior or senior classification or approval of instructor.

#### FIVS 485 Directed Studies—Credits 1 to 4. 1 to 4 Lecture Hours.

Directed individual study in forensic and investigative sciences. May be repeated for credit. **Prerequisites:** Junior or senior classification; upper-division FIVS only; approval of instructor and department head.

#### FIVS 489 Special Topics in...- Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.

Selected topics in an identified area of forensic and investigative sciences. May be repeated for credit.

#### FIVS 491 Research—Credits 1 to 4. 1 to 12 Lab Hours.

Research conducted under the direction of a faculty member in the department of entomology. May be repeated 3 times for credit.

Prerequisite: Junior or senior classification.

## **University Requirements for Graduation for All Majors**

Degree requirements are catalog specific and listed in the Undergraduate Catalog (http://catalog.tamu.edu/) and Texas A&M University Student Rules (http://student-rules.tamu.edu/).

Access to degree program requirements is available using **View Degree Evaluation** in the Degree Evaluation channel on My Record in Howdy (*http://howdy.tamu.edu*).

**Writing Requirement**. Students must take two courses in their major designated as fulfilling a writing requirement (W). The requirement may be met by taking two W courses or one W course and one oral communication (C) course. These courses are major specific and taken as part of the student's upper-level coursework.

**Residence Requirement**. A minimum of 36 semester hours of 300- and/or 400-level coursework must be successfully completed in residence at Texas A&M University to obtain a baccalaureate degree. A minimum of 12 of these 36 semester hours must be in the major.

**Foreign Language Requirement**. Some proficiency in a foreign language is required to graduate from Texas A&M University. The requirement can be satisfied by:

- The satisfactory completion in high school of two units (two full years) of the same foreign language;
- The satisfactory completion of two semesters (one full year) of the same foreign language in college; or
- Demonstrating proficiency in a foreign language by examination.

In all cases, it is your responsibility to check your degree evaluation and to complete all academic requirements of your academic major.

# Forensic & Investigative Sciences Minimum Guidelines for Continuing Students (Science emphasis)

- 1. Freshman (U1) must maintain a 2.75 cumulative GPR at all times or they may be subject to probationary terms or dismissal.
- 2. Sophomores(U2), Juniors(U3), and Seniors(U4) must maintain a 3.0 cumulative GPR at all times or they may be subject to probationary terms or dismissal.
- 3. Students must enroll in and successfully complete (with a "C" or better) a minimum of one science course per semester. Failure to meet this requirement will result in an **automatic dismissal** from the program.

Forensic and Investigative Sciences students whose cumulative GPR at Texas A&M falls below a 3.0 may be blocked from further registration and dropped from the FIVS program without probation.

In an effort to proactively engage students academically and retain students within the Forensic & Investigative Sciences program, students may be subject to academic caution terms if their term grade point ratio falls below that required of their classification.

Students who are dropped from Forensic and Investigative Sciences for not maintaining the minimum programmatic GPR requirements may be readmitted only after meeting change-of-curriculum requirements as outlined under the guidelines for admission.

Probationary terms may apply to students who fall below the guidelines for continuing students. Probation students must be able to meet the minimum requirements for continuation one long semester (Fall/Spring) immediately after falling below the guidelines, if a student cannot <u>OR will be unable to</u> meet these requirements; they will be blocked and dropped from the program.

Students with honor code violations will be dismissed from the program with no recourse for reentry.

Students must make reasonable progress towards degree. Students must apply for upper level before reaching 70 total credit hours. Multiple probationary semesters may be taken into account for student continuation.

- Special consideration will be given to graduating seniors, as determined by the academic appeals committee, based on extenuating circumstances and/or special needs.
- Students may be required to complete additional academic success courses as determined by academic appeals committee. Specifics regarding probationary terms will be included in a signed contract with the departmental advisor.

TAMU Student Rules defines any undergraduate student with a GPR < 2.0 as scholastically deficient. The University Dismissal Policy applies for all students below a 2.0.

#### Statement of Curricular Responsibility

• Students are expected to complete courses in the semester they are outlined on the curricula or with prior advisor approval. Students who deviate from the curriculum as outlined, or planned with advisors, may be forced to delay graduation.

# Guidelines for Applying for Upper Level within the Forensic & Investigative Sciences Program

- 1. Students must declare their Upper Level Intent before reaching 70 completed credit hours
  - This includes TAMU, community college, dual credit and AP credits combined
- 2. Students must complete ALL of the common body of knowledge courses



- 3. Students must have an overall GPA of 3.0 (Science) or 2.5 (Law).
- The Upper Level Intent form is available online at *https://forms.gle/4KfQqQ1qFLLLnhCC7*.



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## **Internship Requirements**

All ENTO and FIVS students are required to complete either an Internship or Research project for 2 credit hours.

Professional Internship: Independent study and supervised field experience related to a professional area of interest in either entomology or forensic and investigative sciences (dependent on your major).

#### Prior to the internship, students are required to:

- 1. Complete the On-line Application.
- 2. The student must submit a one to two page formal proposal of the project. The proposal must include a title page and the following:
  - a. Describe the overall problem to be addressed.
  - b. Provide a section on professional background that may be relevant to the work experience being done.
  - c. List specific objectives to attain the goal and brief description of how each objective will be achieved.
  - d. Must be in APA format.
- 3. Students must turn in a formal proposal for Professional Internship before student will be registered. Students will not be registered for Professional Internship credit hours until a formal proposal is on file in the Entomology Undergraduate Programs Office.

#### During the Internship, students are required to:

- 1. Keep an electronic journal detailing experiences, including hours worked
- 2. Photo document activities
- 3. Work a minimum of 3 hours per week per credit registered during the long semester (6 hours per week). It is expected that an individual that signs up for two credits will work a minimum of six hours per week for 15 weeks (total of 90 hours). Internships must be four weeks (approximately 20 hr per week) or longer in order to satisfy internship requirements.

#### **Requirements for Final Grade:**

Students will be sent a link for document uploading, and by the final day of classes for the semester in which the student is registered, the student is to complete a project questionnaire and upload the final project documentation.

#### Please refer to the Departmental Website for full Internship Guidelines and Deadlines.

http://entomology.tamu.edu/

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## **Research Requirements**

All ENTO and FIVS students are required to complete <u>either</u> an Internship or Research project for 2 credit hours.

**Research:** Project oriented, faculty supervised research. Projects should be hypothesis driven and provide students with appropriate scientific research experience.

#### **Expectations:**

The expectation is that students should obligate 3 hours of lab time per week per credit hour (for a long term). The workload per week will vary depending on the project and part of term.

Students are required to consult with their intended professor of record to determine expectations for the agreed upon number of credit hours before completing the application.

Students must submit a research proposal as part of the application process. The research proposal must include a title page and the following (in APA format):

- 1. Describe the overall problem to be addressed.
- 2. Provide a section on scientific background that may be relevant to the research being done.
- 3. List specific objective to attain the goal and brief description of how each objective will be achieved.

#### **Requirements for Final Grade:**

Final grade will be assigned based on assessment of these learning outcomes, content evaluation of the research proposal, final project report, and a project journal (each date that individual worked and time logged must be recorded in the journal) or laboratory notebook. Registered students will be sent a link for document uploading. The questionnaire and those documents are due by the last class day of the semester in which the student is registered.

Please refer to the Departmental Website for full Research Guidelines and Deadlines.

http://entomology.tamu.edu/

# Agricultural and Natural Resources Policy and Internship Program

The Agricultural and Natural Resources Policy (ANRP) Internship Program is one of the premier leadership opportunities in the College of Agriculture and Life Sciences at Texas A&M University. Through this program, students complete exciting, policy-focused internships in Washington, D.C., Austin, Texas, and Rome, Italy for a semester while earning academic credit. ANRP offers many benefits from paid internships and academic credit to getting connected with the Aggie network! Most of all, an ANRP internship will give you a chance to try out a potential career risk free! This is your chance to gain real work experience that many employers are looking for today. So let ANRP be the experience that opens doors to your future! To learn more about all that the ANRP Internship Program has to offer, visit *http://anrp.tamu.edu/home/internships/benefits/*.

## **Departmental Study Abroad Opportunities**

## A&M Caribbean Tropical & Field Biology — Study Abroad Program in Trinidad & Tobago, West Indies

Students conduct field research and complete class projects in Trinidad and Tobago. Individual and group research projects include, but are by no means restricted to, forensic entomology, host-parasite studies, basic ecology, and general biodiversity surveys. Students design projects, collect data, analyze results, and prepare a professional research article. Throughout the program students will be going on numerous hikes, some of which can be challenging, but the hikes allow the students to see and experience the islands' diverse tropical flora and fauna. Students will also spend a good amount of time in and on the water conducting research and participating in program organized activities like snorkeling.

#### Highlights

- Gain hands-on experience designing and implementing an independent research project in a biodiverse area of the Caribbean.
- Experience the diverse Caribbean flora and fauna through rainforest hikes, mangrove cruises, and snorkeling on coral reefs.
- Witness female sea turtles nesting and/or hatchling sea turtles making their way across tropical beaches at night.
- Experience a diverse mix of Afro-Caribbean and Asian cultures, customs and cuisines.

#### Credit

All students are required to take a total of 6 credit hours in Summer 2020 to participate on this program. Students should meet with their academic advisors to ensure they meet eligibility requirements and that the courses are degree applicable.

- WFSC/ENTO 300: Field Studies (3 cr.)
- WFSC/ENTO 450: Caribbean Conservation (2 cr.)
- WFSC/ENTO 451: Caribbean Research Seminar (1 cr.)

All students are also required to take WFSC/ENTO 485: Directed Studies for 1 cr. during the Spring 2020 in College Station before the program starts.



## A&M UK Forensic Science—Study & Research Abroad Program in Lincoln, United Kingdom

This program is based at the University of Lincoln (UoL). UoL has one of the top forensic chemistry programs in the UK. You will have the chance to explore the university's forensic program, learn aspects of forensic chemistry from local professors, and live in the historical town of Lincoln.

NOTE: Before the international portion begins, there will be one week in June where you will need to be available (in-person or via Skype) to meet with UoL faculty and students.

#### Highlights

- Exposure to a different set of forensic science standards and expectations in a different country.
- Participate in forensic science focused forensic chemistry work.
- Plan a research project with an international team.

#### Credit

All students are required to take a total of 3 credit hours in Summer 2 to participate on this program. Students should meet with their academic advisors to ensure they meet eligibility requirements and that the courses are degree applicable.

• FIVS 489: Special Topics in Forensic Science Study and Research Abroad (3 cr.)

## Field Entomology in the Tropics—Study Abroad Program in San Isidro, Costa

Rica

Are you interested in biodiversity? Are you seeking exciting research experience? Come Learn about field entomology in the tropical rainforest of Costa Rica through an intensive hands-on, field-base course. This two-week study abroad will provide unique opportunities for students to gain authentic research experience by being involved in insect collecting and insect behavioral experiments. The course will take place at the Texas A&M Soltis Center for Research and Education. Additionally, students will have exciting opportunities to experience Costa Rica through group activities, such as zip lines and volcanic mountain hiking, and much more.

#### Credit

All students are required to take a total of 4 credit hours to participate in this program.

ENTO 455: Field Entomology in Tropical Costa Rica (3 cr.)

Students must have completed 6 hours of biological sciences courses, or have faculty approval.

For additional information regarding these programs and other study abroad opportunities please visit the Texas A&M University Study Abroad Portal: http://studyabroadportal.tamu.edu.

## **Minor in Entomology**

The minor in Entomology is available to all students enrolled at Texas A&M University. The courses listed below constitute the minimum **17** hours required for a minor in Entomology.

## A. Core Courses (8-9 hours):

1. ENTO 201 General Entomology

OR

ENTO 208 / 209 Veterinary Entomology/Veterinary Entomology Laboratory

- 2. ENTO 482 Occupational and Professional Development
- 3. ENTO 301 Biodiversity and Biology of Insects

OR

ENTO 322 Insects in Human Society

## (NOTE: Substitutions are not allowed for core courses.)

## B. Directed Elective Courses (9 hours):

<u>Nine</u> additional hours in 300 or 400 level ENTO courses are required, except for ENTO 425 (unless you have been accepted in the Certificate in Public Health Entomology) and ENTO 481. Students are encouraged to visit the Department of Entomology Academic Advisors in 404 Minnie Belle Heep Building (HPCT), West Campus, to select the appropriate directed elective courses based on their individual educational and career interests.

## C. Prerequisite Courses:

All prerequisites for each core and elective course also must be met. Prerequisite courses will not be applied to the minor requirements and do not count toward the number of hours needed to complete the minor. Please refer to the Texas A&M University Undergrad-uate Catalog for a listing of course prerequisites.

## A GRADE OF 'C' OR BETTER IN EACH COURSE USED FOR THE MINOR IS REQUIRED.

## **Other Common Minors**

If you find a minor that interest you, check the department's website for any prerequisites, then contact an advisor in that department. This is a list of common minors and possible double majors/degrees of interest for both Entomology and Forensic and Investigative Science students:

Agribusiness Entrepreneurship **Agricultural Economics** Agricultural Leadership, Education and Communications **Biochemistry and Biophysics Biological and Agricultural Engineering** Biology Chemistry **Ecosystem Science and Management Extension Education** Horticultural Sciences International Development Nutrition and Food Science Plant Pathology and Microbiology **Poultry Science** Psychology **Public Health Recreation, Park and Tourism Sciences** Sociology Soil and Crop Sciences Wildlife and Fisheries Sciences Business (Minor through the Mays Business School)

Students may seek and receive transcript recognition for a maximum of two minors. To declare a minor the student must:

- a. Obtain approval from the minor-granting department, program or college.
- b. Provide proof of minor approval to the department or major academic advisor
- c. Declare no later than last class day of the semester preceding the graduation semester.
- d. Once declared, minor requirements become graduation requirements. The minor is displayed on the transcript after graduation, but is not displayed on the diploma.

# **Double Major in Entomology**

The double major in Entomology is available to all students enrolled at Texas A&M University. The courses listed below constitute the minimum **20** hours required for a double major in Entomology.

## A. Core Courses (8-9 hours):

1. ENTO 201 General Entomology

OR

ENTO 208/209 Veterinary Entomology/Veterinary Entomology Laboratory

- 2. ENTO 482 Occupational and Professional Development
- 3. ENTO 301 Biodiversity and Biology of Insects

### OR

ENTO 322 Insects in Human Society

## (NOTE: Substitutions are not allowed for core courses.)

## B. Directed Elective Courses (12 hours):

<u>Twelve</u> additional hours in 300 or 400 level ENTO courses are required, except for ENTO 425(unless you have been accepted in the Certificate in Public Health Entomology) and ENTO 481. Students are encouraged to visit the Department of Entomology Academic Advisors in 404 Minnie Belle Heep Building (HPCT), West Campus, to select the appropriate directed elective courses based on their individual educational and career interests.

## C. Prerequisite Courses:

All prerequisites for each core and elective course also must be met. Prerequisite courses will not be applied to the minor requirements and do not count toward the number of hours needed to complete the double major. Please refer to the Texas A&M University Undergraduate Catalog for a listing of course prerequisites.

### A CUMMULATIVE GPA OF A 2.0 OR BETTER FOR THE DOUBLE MAJOR IS REQUIRED

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## **Certificate in Public Health Entomology**

A certificate program can also help you obtain specialization in an academic area. Similar to a minor, a certificate requires taking a group of related courses. Our advisors can help you decide if a certificate program would benefit you.

Students thinking of going to professional school in one of the following fields may consider obtaining the Certificate in Public Health Entomology:

- Public Health Field
- Medical School
- Nursing School

- Professional School (Dental, Pharmacy, PT)
- Law School
- Graduate School

• Veterinary School

#### ELIGIBILITY TO APPLY:

- Completion of one (1) Course from both Category I and II with a grade of "B" or better and a cumulative TAMU GPA of 2.0+
   AND
- 2. Students must complete and submit application before completion of 75 total credit hours.

<ul> <li>Category I – Select one of the 3 credit hour courses</li> <li>ENTO 210 – Global Public Health Entomology (FALL/ SPRING)</li> <li>BESC 314 – Pathogens, the Environment &amp; Society</li> </ul>	<ul> <li>Category III Select one of the 3 credit hour courses</li> <li>ENTO 403 –Urban Entomology (SPRING)</li> <li>HLTH 354 –Medical Terminology for Health Professions</li> </ul>
• VTPB 221 – Great Diseases of the World	<ul> <li>VIBS 204 – Food Toxicology &amp; Safety</li> <li>VIBS 413 – Introduction to Epidemiology</li> <li>VIBS 432 – Public Health Practices <u>OR</u> PHLT 302 Foundations of Public Health</li> <li>VTPB 301/WFSC 327 Wildlife Diseases</li> </ul>
<ul> <li>Category II – Must complete both courses</li> <li>ENTO 208/209 – Veterinary Entomology (FALL/ SPRING)</li> <li>ENTO 423 – Medical Entomology (FALL/SPRING)</li> </ul>	<ul> <li>Category IV – Required Capstone Course*</li> <li>ENTO 425 – Disease Ecology (Every other SPRING)</li> <li>ENTO 426 – Methods in Vector-Borne Disease Ecology (Every other SPRING)</li> </ul>

#### To Complete the Certification, Students Must:

- Successfully complete courses in Category I-III PRIOR to enrollment in Category IV
- Complete all remaining courses within the certification with a minimum grade of "C"
- Earn a cumulative 3.0+ GPA within the certificate courses
- Complete exit survey
- Meet the minimum qualifications for graduation as defined by Texas A&M University including a 2.0 cumulative GPA

## **Honors Programs in Entomology**

#### **Departmental Requirements to Graduate with ENTO Honors**

To achieve ENTO Honors, a student must complete 18 hours of Honors coursework:

- 1. ENTO 201 General Entomology or ENTO 208/209 Veterinary Entomology & Lab
- 2. Twelve (12) hours of honors-level ENTO coursework.
  - a. At least six (6) hours of ENTO courses must be at the 300/400 level.
  - b. Upper level may include 6 hours of Directed Studies / Research.
- 3. Three (3) additional hours of honors-level coursework.

To be certified for Honors Distinction in Entomology no grade of D\* or F\* in any course on the transcript and no grade on the transcript of "D" or "F" in an honors class can be recorded. (An asterisk [\*] on the transcript of a graduating student indicates that the student was given a grade penalty for academic dishonesty and the student did not complete the remediation program that is required in order to have the asterisk removed from such a student's transcript.)

#### Honors Recognition and Graduation with Honors

All completed Honors coursework taken at Texas A&M University is designated as such on a student's official transcript, showing that the student has taken part in this enhanced curriculum. After graduation, the transcript will designate that the student has achieved the distinction of "Entomology Honors", as well as any other University academic distinctions.

#### Admission to the Honors Program in Entomology

Current and potential ENTO majors who have an overall GPA of ≥ 3.5 are eligible for admission to the Department Honors Program. Students are encouraged to consult with a member of the Departmental Academic Advising Team as early as possible in their academic career to plan their course sequence. A TAMU cumulative 3.5 GPA and a 3.25 GPA in Honors courses is required to graduate with ENTO Honors.

#### **Grade Point Requirements**

Participants in the Entomology Honors Program must maintain a TAMU cumulative 3.5 GPA and a 3.25 GPA in Honors courses and no grade in a honors course below a "C".

#### **Professional Development**

Students are highly encouraged to pursue additional University-level honors distinctions, certificates, and to participate in programs such as the Research Scholars Program through the Office of Honors and Undergraduate Research. Additional professional activities such as organizational memberships and participation in Student Research Week or other student oral presentation or poster competitions are strongly encouraged.

## **Honors Program in Forensic and Investigative Science**

#### **Departmental Requirements to Graduate with FIVS Honors**

To achieve FIVS Honors, a student must complete 18 hours of Honors coursework:

- 1. FIVS 205 Introductory Forensic & Investigative Sciences
- 2. Twelve (12) hours of honors-level FIVS coursework.
  - a. At least six (6) hours of FIVS courses must be at the 300/400 level.
  - b. Upper level may include 6 hours of Directed Studies / Research.
- 3. Three (3) additional hours of honors-level coursework.

To be certified for Honors Distinction in Forensic & Investigative Sciences no grade of D\* or F\* in any course on the transcript and no grade on the transcript of "D" or "F" in an honors class can be recorded. (An asterisk [\*] on the transcript of a graduating student indicates that the student was given a grade penalty for academic dishonesty and the student did not complete the remediation program that is required in order to have the asterisk removed from such a student's transcript.)

#### Honors Recognition and Graduation with Honors

All completed Honors coursework taken at Texas A&M University is designated as such on a student's official transcript, showing that the student has taken part in this enhanced curriculum. After graduation, the transcript will designate that the student has achieved the distinction of "Forensic & Investigative Sciences Honors", as well as any other University academic distinctions.

#### Admission to the Honors Program in Forensic & Investigative Sciences

Current and potential FIVS majors who have an overall GPA of ≥ 3.5 are eligible for admission to the Department Honors Program. Students are encouraged to consult with a member of the Departmental Academic Advising Team as early as possible in their academic career to plan their course sequence. A TAMU cumulative 3.5 GPA and a 3.25 GPA in Honors courses is required to graduate with FIVS Honors.

#### **Grade Point Requirements**

Participants in the Forensic & Investigative Sciences Honors Program must maintain a TAMU cumulative 3.5 GPA and a 3.25 GPA in Honors courses and no grade in a honors course below a "C".

#### **Professional Development**

Students are highly encouraged to pursue additional University-level honors distinctions, certificates, and to participate in programs such as the Research Scholars Program through the Office of Honors and Undergraduate Research. Additional professional activities such as organizational memberships and participation in Student Research Week or other student oral presentation or poster competitions are strongly encouraged.

## Scholastic Deficiency/Probation for Entomology Majors

In accordance with **Student Rule 12. Scholastic Deficiency/Probation** (http://student-rules.tamu.edu/ rule12); **Department of Entomology undergraduate students have the obligation to remain at all times in good academic standing**, defined as a minimum 2.0 cumulative GPA in all course work taken at Texas A&M.

- Entomology majors whose semester or cumulative GPA at Texas A&M falls below a 2.0 will be blocked from further registration and dependent on the number of grade points they are below will determine if they are placed on probation for one semester or if they will be dismissed.
- Entomology probation students must be able to meet the minimum requirements for continuation one long semester (Fall/Spring) immediately after falling below the guidelines, if a student cannot <u>OR will be</u> <u>unable to</u> meet these requirements; they will be blocked and dropped from the program.

## Scholastic Deficiency/Probation for Forensic & Investigative Sciences Majors (Law emphasis)

In accordance with **Student Rule 12. Scholastic Deficiency/Probation** (http://student-rules.tamu.edu/ rule12); **Department of Entomology undergraduate students have the obligation to remain at all times in good academic standing**, defined as a minimum 2.0 cumulative GPA in all course work taken at Texas A&M.

- FIVS-LWE majors whose semester or cumulative GPA at Texas A&M falls below a 2.5 will be blocked from further registration and dependent on the number of grade points they are below will determine if they are placed on probation for one semester or if they will be dismissed.
- FIVS-LWE probation students must be able to meet the minimum requirements for continuation one long semester (Fall/Spring) immediately after falling below the guidelines, if a student cannot <u>OR will be una-ble to</u> meet these requirements; they will be blocked and dropped from the program.

# Scholastic Deficiency/Probation for Forensic & Investigative Sciences Majors (Science emphasis)

In accordance with the Forensic & Investigative Sciences Minimum Guidelines for Continuing Students; FIVS -SCE undergraduate students have the obligation to remain at all times in good academic standing.

- 1. Freshman (0-29 credit hours) Forensic & Investigative Sciences majors (SCE) must maintain a 2.75 cumulative GPR at all times or they may be subject to probationary terms or dismissal.
- 2. Sophomores, Juniors, and Seniors (30-120 credit hours) Forensic & Investigative Sciences majors (SCE) must maintain a 3.0 cumulative GPR at all times or they may be subject to probationary terms or dismissal.
- 3. Forensic & Investigative Sciences majors (SCE) must enroll in and successfully complete (with a "C" or better) a minimum of one science course per semester. Failure to meet this requirement will result in an automatic dismissal from the program.

Forensic and Investigative Sciences students whose cumulative GPR at Texas A&M falls below a 3.0 may be blocked from further registration and dropped from the FIVS program without probation.

In an effort to proactively engage students academically and retain students within the Forensic & Investigative Sciences program, students may be subject to academic caution terms if their term grade point ratio falls below that required of their classification.

Probationary terms may apply to students who fall below the guidelines for continuing students. Probation students must be able to meet the minimum requirements for continuation one long semester (Fall/Spring) immediately after falling below the guidelines, if a student cannot <u>OR will be unable to</u> meet these requirements; they will be blocked and dropped from the program.

**PDFelement** 

## **University Dismissal**

In accordance with **Student Rule 12.2.4**: In the event an undergraduate student becomes scholastically deficient, he or she, may be Suspended from the university for deficient scholarship; a scholastically-deficient undergraduate student may, after review by the Associate Provost for Undergraduate Studies or designee, be suspended from the university because of scholastic deficiency by the following action:

• Suspension: Separation of the student from the university for a definite period of time. The student is not guaranteed readmission at the end of this period of time. The student is guaranteed a review of the case and a decision regarding eligibility for readmission.

The decision to suspend a student takes effect when the Undergraduate Academic Appeals Panel (See Student Rule 57) does not support the student's appeal, or when the appeal is waived, or when the time limit for appealing has passed. A recommendation by the Associate Provost for Undergraduate Studies or designee to suspend the student from the university because of scholastic deficiency must be made with concurrence of the student's academic Dean or designee.

# **Academic Integrity**

In accordance with **Student Rule 20.0 Academic Misconduct** (*http://aggiehonor.tamu.edu/ RulesAndProcedures/*); Academic integrity is an essential force in the academic life of a university. It enhances the quality of education and celebrates the genuine achievements of others. It is, without reservation, a responsibility of all members of the Texas A&M University Community to actively promote academic integrity. Apathy or acquiescence in the presence of academic dishonesty is not a neutral act -- failure to confront and deter it will reinforce, perpetuate, and enlarge the scope of such misconduct.

As such, a primary responsibility assumed by Texas A&M students is to promote the ideals of the Aggie Code of Honor. Various methods of encouraging integrity exist, such as setting an example for new students, education through student organizations, and student-to-student moral suasion. Students have the responsibility to confront their peers engaging in compromising situations, and if unsuccessful, to report the matter to the Aggie Honor System Office. Self-reporting is encouraged and may be considered a mitigating circumstance in the sanctioning phase of a particular case.

### AGGIE HONOR CODE

"An Aggie does not lie, cheat or steal, or tolerate those who do."

Department of Entomology students have an obligation to uphold the Aggie Code of Honor. The dean reserves the right to remove from the College of Agriculture and Life Sciences any student found to have committed an act of academic dishonesty.

DFelement

## How to Calculate GPA

The Grade Point Average (GPA) is determined by dividing the number of grade points earned by the number of hours attempted. Courses for which a grade of S, W, Q, or NG was given are excluded from the GPA calculation. Grades of U are included in the GPA calculation for undergraduate students.

Each letter grade carries the following grade point value per credit hour:

Letter Grade	Grade Points
А	4.00
В	3.00
С	2.00
D	1.00
F	0.00
U	0.00

#### **Example - Term GPA**

The following example illustrates how to calculate a Grade Point Average (GPA) for an undergraduate student

Course	Credit Hours	Grade	Grade Points
HIST 106	3	С	6
ENGL 104	3	В	9
PSYC 107	3	D	3
BIOL 111	4	С	8
Total:	13		26

Dividing **26** grade points by **13** <u>ATTEMPTED</u> hours yields a GPA of **2.000**.

#### **Cumulative GPA**

To calculate a cumulative undergraduate Grade Point Average for all course work completed at Texas A&M University, you must divide the total GRADE POINTS earned for all semesters enrolled by the total number of ATTEMPTED hours for all semesters enrolled. Do not add the semester GPAs for each term then divide by the number of terms.

Only grades in coursework which the student completes at Texas A&M University, including repeated courses, will be used in determining the student's A&M GPA.

# **Howdy Portal**

**Howdy** is a secure web portal at Texas A&M University that helps students, applicants, faculty, staff, and former students more easily connect to their university records and resources. **Howdy** is available at *howdy.tamu.edu* and to access requires use of the campus NetID and password. Access includes, but is not limited to, the following resources:

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My Record includes the following channels:

Registration

- Registration Time Assignment
- Search Class Schedule
- Add or Drop Classes
- Registration Status (includes View Holds; Registration History) My Schedule
- View My Schedule
- Final Exam Schedules
- Change Class/KINE Options

Grades and Transcripts

- Grades
- Credit by Examination
- Official Transcript (Order Official Transcript)
- View Unofficial Transcript

My Information

- Withhold Directory Information
- View/Update Contact Information (includes Addresses/Phones; Emergency)

**Degree Evaluation** 

- Application for Graduation
- View Degree Evaluation
- Excess Credit Hours Rule
- Transfer Course Equivalency

Undergraduate Degree Planner Academic Resources

Student Rules

My Finances includes the following channels:

Billing – Tuition & Fees

• Pay My Tuition/Manage My Account Refunds

Scholarships and Financial Aid

Student Life includes the following channels:

Parking and Transformation

Student Involvement

**Purchase Optional Services** 

**Employment and Internships** 

You are required to maintain up-to-date local address, permanent address and telephone information and emergency contacts in your University record.

## **Course Registration**

Registration for the fall and spring semesters is accomplished as announced by the registrar. In the preceding fall and spring semester (during November and April), a preregistration period is held for currently enrolled students. The individual registration time assignment is set by the Office of the Registrar.

An individual's preregistration start date and time is based on criteria defined on the Office of the Registrar website, *registrar.tamu.edu*. Additional information about registration, dropping and adding is available on the Registrar website, including the Schedule of Classes.

Academic advisors in the Undergraduate Advising Office offer preregistration advising.

**Registration Holds**. A student may be held from registering for future semesters for a number of reasons. Students can check for registration, transcript, or graduation holds on the **My Record** tab in Howdy. If a hold is in effect you will not be allowed to register.

For help or assistance with registration, contact the **Registration Help Desk**, Monday through Friday, 8 a.m. to 5 p.m., at 979.845.7117, or registration@tamu.edu.

## **Transfer of Course Credits**

Acceptance of transfer credit for courses will generally be limited to those courses taught in the freshman and sophomore years at Texas A&M University. **Department of Entomology undergraduate students must take all 300- and 400-level coursework in residence at Texas A&M University.** 

Transfer of course credit is determined by Texas A&M University's Office of Admissions (OA) on a course-bycourse basis. The Transfer Course Equivalency website is a searchable database of course equivalency evaluations completed by the Office of Admissions *https://compass-ssb.tamu.edu/pls/PROD/ bwxkwtes.P\_TransEquivMain*.

Another aid for students in the transfer of general academic courses between community colleges and universities is the Texas Common Course Numbering System (TCCNS). The current version of TCCNS is available directly at *http://catalog.tamu.edu/undergraduate/appendices/texas-common-course-numbering-system/.* Check the TCCNS before enrolling in courses at Texas community colleges.

Credit submitted for transfer must be on an official transcript received by the Office of Admissions, from the registrar of the institution where credit was earned. The evaluation of courses on the OAR site is a guide, and transferability of any given course is not guaranteed until evaluated upon receipt of the transcript.

Credit for courses that transfer to Texas A&M University by equivalency are shown by A&M course number in the degree evaluation.

For courses that transfer by title; degree evaluation will show only the course name from the other institution. In some cases these credits may be substituted for A&M credits through an adjustment request process.

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## **Transfer of Course Credits (Continued)**

Course materials required in the petitioning process include:

- 1. Course syllabus including course outline.
- 2. Course description from catalog at institution where credit was earned.
- 3. Title and table of contents of the course textbook used.
- 4. Other useful course materials, such as class notes, homework, quizzes, exams, reports, theme papers, memo from the professor.

To petition a course adjustment, you will need to take the above materials to the department of the course you are petitioning credit for and request they review the above materials for course credit. If the transfer course is approved you will need to obtain the approval in writing and provide it to the department undergraduate advising office for processing.

**Grade Point Average (GPA).** Only grades in coursework which the student completes at Texas A&M University, including repeated courses, will be used in determining the student's A&M GPA. Transfer credit grades are not calculated into the A&M GPA; only transfer credit hours are awarded. Credit may be transferred for work completed with grades of "D" or better if the grade is considered passing at the transfer institution.

For additional information, contact the Office of Admissions, 750 Agronomy Road, Suite 1601, College Station, Texas 77843, or by phone at 979.845.1060



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## **Undergraduate Degree Planner**

The purpose of the Undergraduate Degree Planner is to facilitate the timely completion of your degree at Texas A&M University and to assist in planning the courses required to fulfill your degree program requirements. All students at Texas A&M are required to submit their Degree Planner annually. The submission window for submitting your degree plan for approval will open on March 1st of each year. You may complete your degree plan using the Undergraduate Degree Planner, located in the Undergraduate Degree Planner are also located in this channel. Guides for using the Undergraduate Degree Planner, including a Demo and Degree Planner Guide, are also available in Howdy.

- For ENTO students, complete the degree evaluation (click "Detail Requirements" when given the list of Degree Evaluations Options).
- For FIVL students, complete the 'What-If Analysis", your entry term, then enter either FIVS-SCE or FIVS-LWE, depending on your intended program option. You will then click "Detail Requirements" when given the list of Degree Evaluation Options.

The Department of Entomology deadline for submitting and approving your degree plan is March 10th. If you do not complete your degree plan by this deadline, a registration hold will be placed on your record on March 11th . This registration hold will prevent you from registering for summer/fall courses and will only be lifted after approval of your degree planner. Students who have not completed their degree planner will be unable to schedule a pre-registration advising appointment prior to summer/fall registration. advisor.

The assistance of your academic advisor may be required to complete your degree plan. It is your responsibility to successfully complete degree program requirements. We strongly encourage you to discuss your final degree plan with your academic advisor.

Please know that the approval of this degree planner is NOT the official document that must be followed for graduation purposes. The official document to follow is the Degree Evaluation in Howdy. You are still advised to meet with your academic advisor each semester to make sure you are meeting degree requirements and making satisfactory progress towards degree completion.

# TEXAS A&M GRILIFE

## **Academic Rules and Definitions**

You are responsible for being fully acquainted with and to comply with Texas A&M University Student Rules.

#### 1. Deadline to Add Courses or Drop Courses with No Record.

- Add: 5th class day of a fall or spring semester or 4th class day of the summer terms.
- Drop: 5th class day of a fall or spring semester or 4th class day of the summer terms.

Refer to the Academic Calendar, *registrar.tamu.edu*, for the semester dates, including summer terms and 10-week summer semester.

- 2. **Satisfactory/Unsatisfactory**. Courses taken to satisfy degree requirements must be taken for letter grades except those taken to satisfy General Elective requirements. Complete details and information about taking courses on Satisfactory/Unsatisfactory (SU) basis
- 3. **Q-Drop**. Undergraduate students are permitted 4 Q-drops during their undergraduate studies at A&M; however State law prohibits students from having more than 6 dropped courses from all state institutions. Q-drops in 1-hour courses will not count in the A&M limit of 4 but will be included in the Statemandated limit of 6 drops. Refer to University Student Rules *student-rules.tamu.edu*.

Deadline to Q-drop is the 60th class day of a fall or spring semester, the 15th class day of summer term or the 35th day of a 10-week summer semester. See the Academic Calendar for dates, *registrar.tamu.edu*. Courses taught on a shortened format or between regularly scheduled terms have proportional dead-lines, determined by the Office of the Registrar.

- 4. Withdrawal. To discuss this option, meet with an academic, 404 HPCT, 979.845.9733. Deadline to withdraw from the University is 60th class day of a fall or spring semester, the 15th class day of summer term or the 35th day of a 10-week summer semester. See the Academic Calendar for dates, *registrar.tamu.edu*.
- 5. **Transfer of Credit**. Acceptance of transfer credit will generally be limited to those courses taught in the freshman and sophomore years at Texas A&M University.
- 6. **Repetition of Courses**. Credit for a course can only be earned once, even if the course is repeated. Exceptions include KINE 199 or other special courses when designated.
- 7. **Incomplete Grades**. A temporary grade of I (Incomplete) at the end of a semester for extenuating circumstances. See Student Rules, 10.6. *student-rules.tamu.edu*.
- Graduation with Honors. Requires a minimum of 60 semester hours at Texas A&M University preceding graduation. Categories for honors are designated as follows: Summa Cum Laude: 3.9 GPA or above. Magna Cum Laude: 3.7 through 3.899 GPA. Cum Laude: 3.5 through 3.699 GPA. See Student Rules, 15. Graduation with Honors, student-rules.tamu.edu, for complete details.
- 9. **Prerequisites.** It is the responsibility of the student to be sure that course prerequisites are met. Prerequisites must be listed in the undergraduate catalog or the schedule of classes. Failure to meet course prerequisites could result in a student's being dropped from the class.

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# **Scholarship Opportunities**

Thanks to generous (and highly successful!) former students, industry and organizations, each year the College of Agriculture and Life Sciences awards more than \$1,000,000 in scholarships. We grant roughly 15 scholarships to our students, including first-time freshmen and transfers. That's on top of the grants and loans available from Texas A&M University. In addition, many departments offer scholarships. We want our world-class education affordable for our students.

The Texas A&M Office of Financial Aid will match you with the College scholarships for which you are eligible. It will also match you with departmental scholarships, though a few have their own application process.

The Department of Entomology awards undergraduate scholarships to eligible students interested in majoring in our degree programs. Undergraduate scholarships are given during the annual Undergraduate Entomology Student Recognition Banquet, held during Family Weekend in the spring.

#### **Entomology/Forensics Scholarships**

- Perry L. Adkisson Scholarship
- **Department of Entomology Scholarships**
- **Entomology Scholars Society** •
- **Departmental Outstanding Faculty Scholarship** •
- Honorah A. Doré Scholarship •
- **Dial and Eva Martin Scholarship** ٠
- Dr. Roger Walker Meola Memorial Scholarship

For further information regarding the above scholarship opportunities, please visit the following websites:

- http://entomology.tamu.edu/scholarships/
- http://aglifesciences.tamu.edu/future-students/financial-aid/
- https://financialaid.tamu.edu/

- Fowden G. and Katherine G. Maxwell Scholarship
- Manning A. Price Memorial Scholarship (Medical Entomology)
- Len P. Quattrochi Memorial Scholarship
- Paul Truman Riherd Memorial Scholarship
- **Burris McDaniel Systematics Scholarship**



# **Departmental and College Student Organizations**

#### Undergraduate Entomology Student Organization (UESO)

The mission of the UESO is to further the knowledge of matters concerning entomology. UESO is open to all Texas A&M undergraduates who are interested in entomology, regardless of their major. UESO fosters the interests of the undergraduate students to promote and support academic and social activities of interest to undergraduate students, and serve as liaison between the faculty and staff of the Department of Entomology and other related organizations, and the graduate students.

#### Aggie Forensic and Investigative Sciences Organization (AFIS)

This Aggie Forensic and Investigative Sciences Organization provides hands on experiences in an effort to create a better understanding of Forensic Science and all fields that apply to it. AFIS is a student-run organization established to spread knowledge to the community and all those with an interest in Forensic Science and is open to both graduates and undergraduates at Texas A&M University. AFIS hosts guest speakers with various forensic science experience. Past speakers include Crime Scene Investigators, Forensic Entomologists, Forensic Toxicologists, NCIS agents, FBI agents, Narcotics Investigators, Latent Print Examiners, Soil Scientists, Firearms and Toolmark Analysts, former CIA Agents, Arson Investigators, Forensic Anthropologists, and many others. Members also participate in many campus events such as The Big Event, Relay for Life, Aggieland Saturday, MSC Open House, and Science Night at local schools.

#### **Department of Entomology Scholars Society**

The Department of Entomology Scholars Society is an organization developed to help students expand their skills in leadership and outreach through the enhancement of undergraduate activities and functions. Scholars provide valuable feedback through their roles as liaisons between faculty, staff, students, and prospective students. Each Scholar participates in undergraduate activities as representatives of the Department as a whole; serving as hosts to prospective students, their parents, and other campus visitors.

#### **COALS Council**

The College of Agriculture and Life Sciences Student Council is a professional organization that serves as a liaison between students, faculty, and the Dean in the College of Agriculture and Life Sciences. COALS council represents the nearly 8,000 students within the college through service activities, networking opportunities, professional development, and opportunities for funding through scholarships and grants.

#### Collegiate FFA/4-H

The Texas A&M Collegiate 4-H Club, established in 2009, is one of two collegiate 4-H organizations in the state. The club aspires to offer members quality career and professional development experiences, including a scholarship program, in addition to opportunities to serve 4-H, and non-4-H programs, in the Brazos Valley area and the State of Texas. They strive to meet these goals through a minimum of two social, two service, and two fundraising opportunities every semester. TAMU Collegiate 4-H is open to all Aggies regardless of 4-H experience, major, or classification and welcomes new members at any time.

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#### **Farmers Fight**

This organization was born in 2011 when students in the College of Agriculture and Life Sciences at Texas A&M became upset about articles published in their campus newspaper and

yahoo.com that negatively portrayed the agriculture industry. Students were

convinced that it was necessary to stand up for agriculture in a way that the public could easily understand. Through community and campus outreach events, social media campaigns and representation at a number of prestigious conferences over the past year and a half, the group has grown tremendously while keeping the mission and vision of its foundation at heart.

Farmers Fight puts on an Agricultural Advocacy Conference every year in the spring, during which they advocate for agriculture all day on campus. They have several committees join that each have their own job, they set up booths at events such as Artist Harvest and Ag Culture Day. Farmers Fight also travels to elementary schools to talk about livestock and agriculture.

#### Freshman Leadership Experience (FLE)

Freshman Leadership Experience (FLE) is a Freshman Leadership Organization (FLO) exclusively for freshmen in the College of Agriculture and Life Sciences.

The organization was founded in 2008 with the goals to enhance the leadership skills of freshmen, build professional skills, and emphasize the importance of selfless service. This allows the freshman to network with each other in the organization and throughout the college.

#### Gamma Sigma Delta

Gamma Sigma Delta is an honor society dedicated to recognizing your academic achievements and/or accomplishments as a student, faculty member, alumnus, or industry and university supporter. Student election to the Society is more than an honor. It is a challenge and an obligation to contribute to the understanding and furthering of agriculture and related sciences which are expanded to include, but are not limited to, forestry, natural resources, statistics, human ecology, and veterinary medicine.

The purposes of Gamma Sigma Delta are to promote and to recognize achievements of individuals who excel. Membership in Gamma Sigma Delta is often recognized by recruiters, colleagues and foreign and domestic governments as an indicator of exceptional academic and/or professional performance.



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# Texas A&M University Common Contact Information

Phone (979)	Center/Department/Office	Website
458.4900	Academic Success Center	successcenter.tamu.edu
845.4427	Counseling & Psychological Services	caps.tamu.edu
845.1637	Disability Services	disability.tamu.edu
845.5139	Career Center	careercenter.tamu.edu
847.8938	Office of Professional School Advising	tx.ag/opsa
845.3236	Scholarships & Financial Aid	financialaid.tamu.edu
845.7117	Courses, Registration, & Scheduling	registrar.tamu.edu
845.1957	Honors and Undergraduate Research	honors.tamu.edu
845.1031	Registrar	registrar.tamu.edu
847.3337	Student Business Services	finance.tamu.edu/sbs
458.8316	Student Health Services	shs.tamu.edu
845.3211	Student Locator—Directory	gateway.tamu.edu/directory-search/
845.3111	Student Rules	student-rules.tamu.edu/
845.0544	Study Abroad Programs Office	studyabroad.tamu.edu/
	Texas Common Course Numbering System	www.tccns.org
485.4900	Texas Success Initiative	successcenter.tamu.edu
845.1050	The Aggie Ring	aggienetwork.com/ring
845.1060	Transfer Admissions	admissions.tamu.edu
845.5916	Transition Academic Programs (GEST)	tap.tamu.edu
862.7275	Transportation Services	transport.tamu.edu

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AGRICULTURE & LIFE SCIENCES DEPARTMENT OF ENTOMOLOGY

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