

Fall 2025 BIMS Directed Electives

By Department

Animal Science

- **ANSC 107: General Animal Science** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: No restrictions | Availability: Fall, Spring, Summer | Prerequisites: None
- **ANSC 108: General Animal Science Laboratory** | Credits: 1 credit hours | Lab Requirement: 2 Lab Hours | Class Specification: No restrictions | Availability: Fall, Spring, Summer | Prerequisites: Concurrent enrollment in ANSC 107
- **ANSC 210: Companion Animal Science** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: No restrictions | Availability: Fall, Spring | Prerequisites: None
- **ANSC/NUTR 303: Animal Nutrition** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3 | Availability: Fall, Spring | Prerequisites: CHEM 119 and a grade of C or better in ANSC 113, or CHEM 222, CHEM 227 or CHEM 257; junior classification or approval of instructor.
- **ANSC 318: Animal Feeds and Feeding** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3 | Availability: Fall, Spring, Summer | Prerequisites: Grade of C or better in ANSC 111, ANSC 113, and ANSC 303; junior classification or approval of instructor
- **ANSC/FSTC 326: Food Bacteriology** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Junior or senior classification or approval of instructor. Cross-listed with FSTC 326.

Anthropology

- **ANTH 435: Medical Anthropology** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall/Spring on odd years | Prerequisites: Junior or senior classification or approval of instructor.

Biochemistry

- **BICH 411: Comprehensive Biochemistry II** | Credits: 3 credit hours | Lab Requirement: 1 Lab Hour | Class Specification: None | Availability: Fall/Spring/Summer | Prerequisites: Grade of C or better in BICH 410;

- **BICH 412: Biochemistry Laboratory I** | Credits: 1 credit hour | Lab Requirement: 3 Lab Hours | Class Specification: None | Availability: Fall/Spring/Summer | Prerequisites: BICH 410 or registration therein.
- **BICH 414: Biochemical Techniques I** | Credits: 2 credit hours | Lab Requirement: 6 Lab Hours | Class Specification: U3/U4 | Availability: Spring | Prerequisites: BICH 440, BICH 409, or BICH 410; major in biochemistry, genetics, microbiology, and molecular and cell biology.
- **BICH/GENE 431: Molecular Genetics** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: None | Availability: Fall, Spring | Prerequisites: BICH 409, BICH 410, or BICH 440; GENE 301, GENE 302, GENE 303, GENE 320 or BIMS 320. Cross-listed with GENE 431.
- **BICH 432/GENE 432 Laboratory in Molecular Genetics** | Credits: 2 credit hours | Lab Requirement: 6 Lab Hours | Class Specification: None | Availability: Fall, Spring, Summer | Prerequisites: GENE 301, GENE 302, GENE 303, BIMS 320/GENE 320 or GENE 320/BIMS 320; BICH 431/GENE 431 or GENE 431/BICH 431. Cross-listed with GENE 432/BICH 432.

Biomedical Sciences

- **BIMS 110: One Health in Action** | Credits: 1 credit hour | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: None
- **BIMS 125: Animals in Society** | Credits: 1 credit hour | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: None
- **BIMS 250: Professionalism, Skill Development, Career Exploration, and Ethical Conduct in BIMS** | Credits: 1 Credit Hour | Lab Requirement: None | Class Specification: None | Availability: TBD | Prerequisites: None
 - **For Catalog Years Prior to 2025**
- **BIMS 291: Research** | Credits: 1 to 4 credit hours | Lab Requirement: Varies | Class Specification: U1/U2 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration
- **BIMS 303: Research Methodologies and Experimental Design in Biomedical Sciences** | Credits: 3 Credit Hours | Lab Requirement: None | Class Specification: None | Availability: TBD | Prerequisites: CHEM 257 w/Min Grade C
 - **For Catalog Years Prior to 2025**
- **BIMS 380: Equine-Assisted Activities and Therapies: Best Practices** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall/Spring | Prerequisites: None

- **BIMS 405/GENE 405 Mammalian Genetics** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Spring | Prerequisites: GENE 301, BIMS 320/GENE 320 or GENE 320/BIMS 320. Cross Listing: GENE 405/BIMS 405.
- **BIMS 481: Seminar in Biomedical Science** | Credits: 1 credit hour | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Junior or senior classification; BIMS major; BIOL 401, BIOL 402, BIOL 403, VIBS 310, or VIBS 311.
- **BIMS 484: Biomedical Science Field Experience** | Credits: 2 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **BIMS 485: Directed Studies** | Credits: 1 to 4 credit hours | Lab Requirement: Varies | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **BIMS 491: Research** | Credits: 1 to 4 credit hours | Lab Requirement: Varies | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Grade of C or better in CHEM 228 or CHEM 258; grade of C or better in PHYS 202; junior or senior classification; Approval form required before registration. Forms on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>

Biology

- **BIOL 213: Molecular Cell Biology** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring, Summer | Prerequisites: : BIOL 112 and CHEM 120 (MUST contact BIOL department for any necessary override)
- **BIOL 489-501: Biology of Neurodegenerative Diseases** | Credits: 1 credit hours | Lab Requirement: No lab required | Class Specification: N/A | Availability: Fall 2025 | Prerequisites: BIOL 213 **or** GENE 302 **or** GENE 320/BIMS 320 **or** NRSC 277/VIBS277

Communication

- **COMM 370: Health Communication** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: None

Entomology

- **ENTO 208: Veterinary Entomology** | Credits: 2 credit hours | Lab Requirement: Co-requisite with ENTO 209 | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: Co-enrollment in ENTO 209.
- **ENTO 209: Veterinary Entomology Laboratory** | Credits: 1 credit hour | Lab Requirement: Co-requisite with ENTO 208 | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: Concurrent enrollment with ENTO 208.
- **ENTO 210: Global Public Health Entomology** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring, Summer | Prerequisites: None
- **ENTO 423: Medical Entomology** | Credits: 2 credit hours | Lab Requirement: Co-requisite with ENTO 427 | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: BIOL 111; ENTO 427 or concurrent enrollment; junior or senior classification.
- **ENTO 427: Medical Entomology Laboratory** | Credits: 1 credit hour | Lab Requirement: Co-requisite with ENTO 423 | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: BIOL 111; ENTO 423 or concurrent enrollment; junior or senior classification.
- **ENTO/FIVS 431: The Science of Forensic Entomology** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Spring | Prerequisites: None

Health

- **HLTH 354: Medical Terminology for the Health Professions** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Junior or senior classification. Cross-listed with PHLT 354.

Marketing

- **MKTG 443/PHLT 426: The Business of Healthcare** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Business and Public Health majors; junior or senior classification; or approval of instructor. Cross-listed with PHLT 426.

Nutrition

- **NUTR 202: Fundamentals of Human Nutrition** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring, Summer | Prerequisites: None.
- **NUTR 222: Nutrition for Health and Health Care** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: U1/U2 | Availability: Fall, Spring (Distance Education only) | Prerequisites: None.

Urban Planning

- **URPN 370: Health Systems Planning** | Credits: 3 credit hours | Lab Requirement: No lab required | Class Specification: No restrictions | Availability: Fall, Spring, Summer | Prerequisites: None.

Veterinary Integrative Bioscience

- **VIBS 111: Biodefense, Biosecurity, and Bioterrorism** | Credits: 1 credit hour | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: None
- **VIBS 211 Twenty-first Century Biological Threats** | Credits: 1 credit hour | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall | Prerequisites: BIMS 101; BIMS 110, VIBS 111, or equivalent; freshman or sophomore classification.
- **VIBS 222: Great Poisonings of the World** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall/Spring | Prerequisites: None
- **VIBS 243: Introductory Mammalian Histology** | Credits: 2 credit hours | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: None

- **VIBS 277/NRSC 277 Essential Neuroscience - From Molecules to Nervous Systems** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U2 | Availability: Fall, Spring | Prerequisites: Sophomore classification and approval of instructor. Cross Listing: NRSC 277/VIBS 277.
- **VIBS 285 Directed Studies** | Credits: 0 to 4 credit hours | Lab Requirement: Varies on section | Class Specification: U2 | Availability: Fall, Spring | Prerequisites: Freshman or sophomore classification and approval of department head. Forms on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **VIBS 310: Biomedical Writing** | Credits: 1 credit hour | Lab Requirement: None | Class Specification: U3/U4 | Availability: Spring, Fall | Prerequisites: Grade of C or better in BIOL 112, CHEM 228, PHYS 202 and MATH 142 or 151; junior or senior classification.
- **VIBS 311: Biomedical Explorations through Narrative** | Credits: 1 credit hour | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Grade of C or better in BIOL 112, CHEM 228, PHYS 202 and MATH 142 or 151; junior or senior classification.
- **VIBS 343 Histology** | Credits: 3 credit hour | Lab Requirement: 3 Lab Hours | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: BIOL 112; CHEM 228; junior or senior classification; BIMS major with a minimum overall 2.5 Texas A&M GPA.
- **VIBS 401: Developmental Neurotoxicology** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall/Spring | Prerequisites: Must have Organic Chemistry II completed
- **VIBS 424/VTPP 424 Biomedical Neuroendocrinology and Endocrine Disorders** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Honors, junior or senior classification, or approval of instructor. Cross Listing: VTPP 424/VIBS 424.
- **VIBS 446: Functional Anatomy of Domestic Animals** | Credits: 4 Credit Hours | Lab Requirement: 2 Lab Hours | Class Specification: None | Availability: Fall, Spring | Prerequisites: BIOL 112 w/Min Grade C and CHEM 228 w/Min Grade C.
- **VIBS 450/NRSC 450 Mammalian Functional Neuroanatomy** | Credits: 4 credit hours | Lab Requirement: 2 Lab Hours | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Junior or senior classification; BIMS, biology, biochemistry, or psychology majors, or neuroscience minors with overall 3.5 Texas A&M GPA; or approval of instructor. Cross Listing: NRSC 450/VIBS 450.
- **VIBS 456 Science in Cinema and Society** | Credits: 4 credit hours | Lab Requirement: 2 Lab Hours | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: VIBS 310; majors only; junior or senior classification; approval of instructor.

- **VIBS 485 Directed Studies** | Credits: 0 to 4 credit hours | Lab Requirement: Varies on section | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: Junior or senior classification and approval of instructor.. Forms on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>

Veterinary Large Animal Clinical Science

- **VLCS 485: Directed Studies** | Credits: 1 to 4 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms found on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>

Veterinary Small Animal Clinical Science

- **VSCS 485: Directed Studies** | Credits: Variable (1 to 4 credit hours) | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms found on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>

Veterinary Pathobiology

- **VTPB 221: Great Diseases of the World** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall, Spring | Prerequisites: None
- **VTPB 285: Directed Studies** | Credits: 1 to 4 credit hours | Lab Requirement: None | Class Specification: U1/U2 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration.
- **VTPB 409: Introduction to Immunology** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: None
- **VTPB 426 Biomedical Microbiology Lab** | Credits: 1 Credit Hour | Lab Requirement: 1 Lab Hour | Class Specification: U3 | Availability: Fall, Spring | Prerequisites: None.
- **VTPB 438: Biomedical Virology** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall | Prerequisites: 3 hours of microbiology or approval of the instructor.
- **VTPB 485: Directed Studies** | Credits: Variable (1 to 4 credit hours) | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring,

Summer | Prerequisites: Approval of department head; junior or senior classification. Forms found on our website here:

<https://vetmed.tamu.edu/bims/advising/advising-forms/>

- **VTPB 487 Biomedical Parasitology** | Credits: 4 credit hours | Lab Requirement: 2 Lab Hours | Class Specification: U3/U4 | Availability: Spring | Prerequisites: BIOL 107 or BIOL 111

Veterinary Physiology and Pharmacology

- **VTPP 123: Foundations of Physiology** | Credits: 3 credit hours. | Lab Requirement: None | Class Specification: U1/U2 | Availability: TBD | Prerequisites: None
- **VTPP 208: Analysis and Evaluation of Physiology Education** | Credits: 3 credit hours. | Lab Requirement: None | Class Specification: None | Availability: TBD | Prerequisites: VTPP 207
- **VTPP 223: Design of Experiments for Physiology Research** | Credits: 3 credit hours. | Lab Requirement: 2 Lab Hours | Class Specification: None | Availability: TBD | Prerequisites: VTPP 123
- **VTPP 234: Design of Models for Physiology Research** | Credits: 3 credit hours. | Lab Requirement: None | Class Specification: None | Availability: TBD | Prerequisites: None
- **VTPP 285: Directed Studies** | Credits: 0-4 credit hours. | Lab Requirement: Varies by section | Class Specification: U1/U2 | Availability: TBD | Prerequisites: Approval form by instructor. Forms found on our website here:
<https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **VTPP 291: Research** | Credits: 0-4 credit hours. | Lab Requirement: Varies by section | Class Specification: U1/U2 | Availability: TBD | Prerequisites: Approval form by instructor. Forms found on our website here:
<https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **VTPP 425: Pharmacology** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: VTPP 423 or grade of C or better in BIOL 320; junior or senior classification or approval of instructor.
- **VTPP 427: Applied Biomedical Physiology** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring | Prerequisites: VTPP 423 or grade of D or better in BIOL 320; junior or senior classification.

- **VTPP 438 Analysis of Genomic Signals** | Credits: 3 credit hours | Lab Requirement: 2 Lab Hours | Class Specification: U3/U4 | Availability: TBD | Prerequisites: VTPP 423 or grade of C or better in BIOL 320; junior or senior classification.
- **VTPP 444: Practicum in Biomedical Research** | Credits: 3 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Spring | Prerequisites: VTPP 223 and VTPP 224, or VTPP 234 and VTPP 235, or VTPP 232 and VTPP 233, or VTPP 207 and VTPP 208; junior or senior classification; instructor approval.
- **VTPP 485: Directed Studies** | Credits: 1 to 4 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms found on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>
- **VTPP 489: Special Topics in . . .** | Credits: 1 to 4 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Not always scheduled | Prerequisites: TBD
- **VTPP 491 Research** | Credits: 1 to 4 credit hours | Lab Requirement: None | Class Specification: U3/U4 | Availability: Fall, Spring, Summer | Prerequisites: Approval form required before registration. Forms found on our website here: <https://vetmed.tamu.edu/bims/advising/advising-forms/>