DEPARTMENT OF BIOMEDICAL SCIENCES

Office in H120 Anatomy/Zoology Building
(970) 491-6187
vetmedbiosci.colostate.edu/bms/ (https://vetmedbiosci.colostate.edu/bms/)

Professor Bret Smith, Department Head

Undergraduate Majors

• Major in Biomedical Sciences (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences-major/)
  • Anatomy and Physiology Concentration (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences-major-anatomy-physiology-concentration/)
  • Environmental Public Health Concentration (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences-major-environmental-public-health-concentration/)
  • Microbiology and Infectious Disease Concentration (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/microbiology-immunology-pathology/biomedical-sciences-major-microbiology-infectious-disease-concentration/)
  • Major in Neuroscience (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/neuroscience-major/)
    • Behavioral and Cognitive Neuroscience Concentration (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/neuroscience-major-behavioral-cognitive-concentration/)
    • Cell and Molecular Neuroscience Concentration (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/neuroscience-major-cell-molecular-concentration/)

Minor

• Minor in Biomedical Sciences (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences-minor/)

Graduate

Graduate Programs in Biomedical Sciences

Graduate programs lead to the Master of Science and Doctor of Philosophy degrees in Biomedical Sciences. Students interested in graduate work should refer to the Graduate and Professional Bulletin (http://catalog.colostate.edu/general-catalog/graduate-bulletin/) or the Department of Biomedical Sciences (http://www.cvmbs.colostate.edu/bms/).

Master’s Programs

• Master of Science in Biomedical Sciences, Plan A (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/plan-a-ms-biomedical-sciences/)
• Master of Science in Biomedical Sciences, Plan B (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/plan-b-ms-biomedical-sciences-paper/)
• Master of Science in Biomedical Sciences, Plan B, Anatomical and Physiological Sciences Specialization (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/plan-b-ms-biomedical-sciences-anatomical-physiologicaliences-specialization/)
• Master of Science in Biomedical Sciences, Plan B, Reproductive Technology Specialization (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/plan-b-ms-biomedical-sciences-reproductive-technology-specialization/)

Ph.D.

• Ph.D. in Biomedical Sciences (http://catalog.colostate.edu/general-catalog/colleges/veterinary-medicine-biomedical-sciences/biomedical-sciences/biomedical-sciences-phd/)

Courses

Biomedical Sciences (BMS)

BMS 192 First Year Seminar in Biomedical Sciences Credit: 1 (0-0-1)
Course Description: The university and its resources, college survival skills, careers in the biomedical sciences; current issues in health and biotechnology.
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.
BMS 200  Concepts in Human Anatomy and Physiology  Credit: 1 (0-0-1)
Course Description: Basic concepts in the anatomy and physiology of the
human body.
Prerequisite: None.
Registration Information: Must have concurrent registration in BMS 300.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 260  Biomedical Sciences Credits: 3 (2-0-1)
Course Description: Opportunities and challenges in biomedical sciences; business
of science, ethics, model systems, cellular and systemic
physiology.
Prerequisite: None.
Registration Information: Must register for lecture and recitation.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 296  Honors--Physiological Concepts Credit: 1 (0-0-1)
Course Description: Honors breakout session integrating physiological
concepts for students in BMS 260.
Prerequisite: None.
Registration Information: Must have concurrent registration in BMS 260.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 300  Principles of Human Physiology Credits: 4 (4-0-0)
Course Description: Physiology of humans.
Prerequisite: (BZ 101 or BZ 110 or LIFE 102) and (CHEM 103 or
CHEM 107 or CHEM 111).
Registration Information: Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 301  Human Gross Anatomy Credits: 5 (3-2-1)
Course Description: Structure and function of the human body. Study of
prosected human cadavers; clinical applications; living anatomy.
Prerequisite: BZ 110 or LIFE 102.
Registration Information: Must register for lecture, laboratory, and
recitation.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: Yes.

BMS 302  Laboratory in Principles of Physiology Credits: 2 (1-3-0)
Course Description: Basic physiology lab exercises.
Prerequisite: BMS 300, may be taken concurrently or BMS 360, may be
taken concurrently.
Registration Information: Must register for lecture and laboratory. Credit
not allowed for both BMS 302 and BMS 320.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

BMS 305  Domestic Animal Gross Anatomy Credits: 4 (3-3-0)
Course Description: Comparative gross anatomy of domestic carnivores, ruminants, and horses.
Prerequisite: BZ 110 or LIFE 102.
Registration Information: Must register for lecture and laboratory. Credit
not allowed for both BMS 305 and VS 333.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 310  Anatomy for the Health Professions Credits: 4 (3-3-0)
Course Description: Gross anatomy of the human body from a regional
perspective, utilizing clinical applications as a basis for anatomical
understanding.
Prerequisite: LIFE 000 to 499 - at least 3 credits.
Registration Information: Offered as an online course only.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 320  Virtual Laboratory in Physiology Credits: 2 (0-4-0)
Course Description: Physiology lab exercises using a virtual laboratory
simulation system.
Prerequisite: BMS 300, may be taken concurrently or BMS 360, may be
taken concurrently.
Registration Information: Credit not allowed for both BMS 320 and
BMS 302. Offered as an online course only.
Terms Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 325  Cellular Neurobiology Credits: 3 (3-0-0)
Course Description: Cellular and molecular bases of nervous system
function and behavior.
Prerequisite: BMS 300 or BMS 360.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 330  Microscopic Anatomy Credits: 4 (3-3-0)
Course Description: Microscopic anatomy of mammalian tissue.
Prerequisite: BMS 300 or BMS 360.
Registration Information: Must register for lecture and laboratory. Credit
not allowed for both BMS 330 and VS 331.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 345  Functional Neuroanatomy Credits: 4 (3-2-0)
Course Description: Functional systems and circuits of the human brain
and spinal cord.
Prerequisite: BMS 300 or BMS 360.
Registration Information: Must register for lecture and laboratory.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

BMS 360  Fundamentals of Physiology Credits: 4 (4-0-0)
Course Description: Cell, tissue, and organ function related to integrated
whole body function.
Prerequisite: (BZ 110 or LIFE 102) and (CHEM 245, may be taken
concurrently or CHEM 341, may be taken concurrently).
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.
BMS 384 Supervised College Teaching Credits: Var[1-5] (0-0-0)
Course Description: Supervision by and work with graduate teaching assistants in small group learning sessions involving students enrolled in BMS 300.
Prerequisite: BMS 300 or BMS 360.
Registration Information: A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 400 Neuroanatomy Through Clinical Case Studies Credit: 1 (0-0-1)
Course Description: Neuroanatomical case studies to reinforce and apply information gained in BMS 345, Functional Neuroanatomy.
Prerequisite: BMS 345, may be taken concurrently.
Registration Information: Biomedical sciences majors only. Required field trips.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 401 Laboratory Research in Biomedical Sciences Credits: 4 (0-9-1)
Course Description: Hands-on experience in laboratory research methods for students working individually on a project which stems from a larger research project of a faculty member's laboratory. All students will work in the same facility equipped with appropriate equipment and supplies to conduct the student research proposal.
Prerequisite: BMS 300 or BMS 360.
Registration Information: Must register for laboratory and recitation.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 405 Nerve and Muscle-Toxins, Trauma and Disease Credits: 3 (3-0-0)
Course Description: Structure, composition, function of nerves and muscles, etiology of genetic and autoimmune neuromuscular diseases, alteration by toxins and nerve gas.
Prerequisite: BMS 325 or BMS 345.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 409 Human and Animal Reproductive Biology Credits: 3 (3-0-0)
Course Description: Basis for male and female reproductive function in humans and animals.
Prerequisite: BMS 300 or BMS 360.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 420 Cardiopulmonary Physiology Credits: 3 (3-0-0)
Course Description: Normal and pathophysiology of cardiovascular and pulmonary systems.
Prerequisite: BMS 300 or BMS 360.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 421 Perspectives in Cardiopulmonary Diseases Credits: 2 (1-0-1)
Course Description: Pathophysiology of cardiopulmonary diseases.
Prerequisite: BMS 420, may be taken concurrently.
Registration Information: Must register for lecture and recitation. Biomedical sciences majors only.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 425 Introduction to Systems Neurobiology Credits: 3 (3-0-0)
Course Description: Functional organization of the nervous system at the circuit level in producing simple and complex behaviors, sensations and cognition.
Prerequisite: BMS 325.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 430 Endocrinology Credits: 3 (3-0-0)
Course Description: Physiology of the glands of internal secretion.
Prerequisite: BMS 300 or BMS 360.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 450 Pharmacology Credits: 3 (3-0-0)
Course Description: Pharmacologic principles, absorption, distribution, metabolism, excretion, side effects, and actions of drugs.
Prerequisite: (BMS 300 or BMS 360) and (BC 351 or LIFE 210).
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 460 Essentials of Pathophysiology Credits: 3 (3-0-0)
Course Description: Integration of different facets of mechanisms underlying health and disease.
Prerequisite: BMS 300 or BMS 360.
Registration Information: Biomedical sciences majors only.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 461 Pathophysiology Perspectives Credits: 2 (0-0-2)
Course Description: Capstone course in pathophysiology for biomedical sciences majors.
Prerequisite: BMS 460, may be taken concurrently.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 487 Internship Credits: Var[1-6] (0-0-0)
Course Description: Work/research experience with an approved preceptor outside of a university laboratory.
Prerequisite: None.
Registration Information: Written consent of department required.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 495 Independent Study Credits: Var[1-18] (0-0-0)
Course Description: Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.
BMS 496A  Honors: Human Gross Anatomy  Credits: Var[1-3] (0-0-0)
Course Description: Honors breakout session for students in Human Gross Anatomy.
Prerequisite: BMS 301, may be taken concurrently.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 496B  Honors: Physiology Lab  Credits: Var[1-3] (0-0-0)
Course Description: Honors breakout session for students in Physiology Lab.
Prerequisite: BMS 302, may be taken concurrently.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 496C  Honors: Physiology Case Studies  Credits: Var[1-3] (0-0-0)
Course Description: Honors breakout session for students in Physiology Case Studies.
Prerequisite: BMS 360, may be taken concurrently.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 496D  Honors: Animal Gross Anatomy  Credits: Var[1-3] (0-0-0)
Course Description: Honors breakout session for students in Animal Gross Anatomy.
Prerequisite: BMS 305, may be taken concurrently.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 498  Research  Credits: Var[1-3] (0-0-0)
Course Description: Faculty-directed research in biomedical sciences.
Prerequisite: BMS 300 or BMS 360.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 500  Mammalian Physiology I  Credits: 4 (4-0-0)
Course Description: Cell physiology of nerve, skeletal, cardiac and smooth muscle with an emphasis on how cellular functions integrate into systems behavior.
Prerequisite: BMS 300 or BMS 360.
Registration Information: Credit not allowed for both BMS 500 and NB 501. Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 501  Mammalian Physiology II  Credits: 4 (4-0-0)
Course Description: Respiratory, renal, digestive, endocrine, metabolic, and reproductive function.
Prerequisite: BMS 300 or BMS 360.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 502  Readings in Cellular Neurobiology  Credit: 1 (0-0-1)
Also Offered As: NB 500.
Course Description: Faculty directed exploration of key literature in the neurosciences.
Prerequisite: (BZ 100 to 481 - at least 1 course or BIO 100 to 481 - at least 1 course or LIFE 100 to 481 - at least 1 course) and (BC 100 to 481 - at least 1 course and PH 100 to 481 - at least 1 course) and (MATH 141 or MATH 155 or MATH 160 to 161 - at least 1 course or MATH 255 or MATH 261) and (BMS 325) and (BMS 500, may be taken concurrently or NB 501, may be taken concurrently).
Restriction: Must not be a: Freshman, Sophomore, Junior.
Registration Information: Senior standing. Written consent of instructor. Credit not allowed for both BMS 502 and NB 500.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 503  Developmental Neurobiology  Credits: 3 (3-0-0)
Also Offered As: NB 503.
Course Description: Molecular mechanisms involved in development of nervous system including differentiation, growth, pathfinding, and synaptogenesis.
Prerequisite: (BIO 100 to 481 or BZ 100 to 481 or LIFE 100 to 481) and (BC 100 to 481 and PH 100 to 481) and (MATH 141 or MATH 155 or MATH 160 to 161 or MATH 255 or MATH 261).
Registration Information: Credit not allowed for both BMS 503 and NB 503.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 505  Neuronal Circuits, Systems and Behavior  Credits: 3 (3-0-0)
Also Offered As: NB 505.
Course Description: Anatomical and physiological organization of the nervous system.
Prerequisite: BMS 325 or BMS 500 or NB 501.
Registration Information: Credit not allowed for both BMS 505 or NB 505.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 521  Comparative Reproductive Physiology  Credits: 3 (3-0-0)
Course Description: A comparative overview of reproduction in vertebrates (focusing on mammals) emphasizing both conserved and species-specific aspects of physiology.
Prerequisite: BMS 305 or BMS 360.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

BMS 531  Domestic Animal Dissection  Credits: 3 (0-9-0)
Course Description: Dissection of domestic animals.
Prerequisite: BMS 305.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Grade Mode</th>
<th>Term Offered</th>
<th>Special Course Fee</th>
<th>Restriction</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>BMS 540</td>
<td>Assisted Reproductive Technologies Lab I Credits: 3 (1-6-0)</td>
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<td>Course Description: Principles and fundamental skills of assisted reproduction technologies, including sterile methods for collecting and culturing oocytes, in vitro fertilization and embryo culture.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate.</td>
<td>BMS 540.</td>
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<td>Restriction: Must be a: Graduate.</td>
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<td>Traditional</td>
<td>Spring</td>
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<tr>
<td>BMS 541</td>
<td>Assisted Reproductive Technologies Lab II Credits: 3 (1-6-0)</td>
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<td>Course Description: Principles and fundamental skills needed for assisted reproductive technologies, including advanced techniques for splitting, obtaining biopsies from and transferring embryos; as well as learning the latest industry techniques for collecting, staining, manipulating and labeling embryos.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate.</td>
<td>BMS 540.</td>
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<td>Restriction: Must be a: Graduate.</td>
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<td>Traditional</td>
<td>Spring</td>
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<td>BMS 545</td>
<td>Neuroanatomy Credits: 5 (3-4-0)</td>
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<td>Course Description: Nervous system structure and function presented from a systems perspective; applied and comparative aspects are emphasized.</td>
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<td>Traditional</td>
<td>Spring</td>
<td>Yes</td>
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<td>BMS 575</td>
<td>Human Anatomy Dissection Credits: 4 (0-8-0)</td>
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<td>Course Description: Regional approach to human gross anatomy through laboratory dissection of human cadaver.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>BMS 610A</td>
<td>Managing a Career in Science: Survival Skills for Coursework (M.S.) Credit: 1 (1-0-0)</td>
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<td>Course Description: Survival skills for professionals. How to succeed in science, including improving writing, teaching, speaking; finding the right job.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate, Professional.</td>
<td>BMS 540.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
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<td>BMS 619</td>
<td>Advanced Human Gross Anatomy Credits: 2 (0-0-2)</td>
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<td>Course Description: Clinical application of human anatomy through case-based study.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>BMS 610B</td>
<td>Managing a Career in Research: Survival Skills for Research (M.S. and Ph.D.) Credit: 1 (1-0-0)</td>
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<td>Course Description: Survival skills for professionals. How to succeed in science, including improving writing, teaching, speaking; finding the right job.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate, Professional.</td>
<td>BMS 501.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>BMS 631</td>
<td>Mechanisms of Hormone Action Credits: 2 (2-0-0)</td>
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<td>Course Description: Synthesis, secretion, and mechanisms of action of hormones.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>Must be a: Graduate, Professional.</td>
<td>BMS 430 or BMS 501.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>BMS 632</td>
<td>Metabolic Endocrinology Credits: 2 (2-0-0)</td>
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<td>Course Description: Endocrine regulation of metabolic homeostasis; effects of exercise or pregnancy.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate, Professional.</td>
<td>BMS 631.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Fall</td>
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<td>BMS 633</td>
<td>Domestic Animal Anatomy-Case Discussions Credits: 2 (0-0-2)</td>
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<td>Course Description: Clinical case discussions utilized in advanced understanding of domestic animal anatomy and physiology.</td>
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<td>Traditional</td>
<td>Spring</td>
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<td>Must be a: Graduate, Professional.</td>
<td>BMS 531.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Spring</td>
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<td>BMS 640</td>
<td>Reproductive Physiology and Endocrinology Credits: 4 (4-0-0)</td>
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<td>Course Description: Reproductive physiology and endocrinology of vertebrate animals.</td>
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<td>Traditional</td>
<td>Fall</td>
<td>No</td>
<td>Must be a: Graduate, Professional.</td>
<td>BMS 501.</td>
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<td>Restriction: Must be a: Graduate, Professional.</td>
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<td>Traditional</td>
<td>Fall</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Course Description</td>
<td>Prerequisite</td>
<td>Restriction</td>
<td>Terms Offered</td>
<td>Grade Mode</td>
<td>Special Course Fee</td>
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<tr>
<td>BMS 642</td>
<td>Research Techniques for Gametes and Embryos</td>
<td>1 (0-3-0)</td>
<td>Collection, storage, evaluation, in vitro manipulation, and replacement of sperm, oocytes, embryos, and other reproductive tissues.</td>
<td>None</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td>Traditional</td>
<td>No</td>
</tr>
<tr>
<td>BMS 643</td>
<td>Applied Andrology</td>
<td>2 (1-3-0)</td>
<td>The male side of reproduction including the development of the male reproductive tract, hormonal control of the tract and spermatogenesis, fundamentals of spermatogenesis and seminal plasma and the physiology of sperm. Current methods for collecting, analyzing, cryopreserving and preparing sperm for either artificial insemination or in vitro fertilization.</td>
<td>BMS 300 or BMS 360 or BMS 409</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Traditional</td>
<td>No</td>
</tr>
<tr>
<td>BMS 684</td>
<td>Supervised College Teaching</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Review of classic papers in the neurosciences.</td>
<td>None</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 692</td>
<td>Seminar-Classics in Neurosciences</td>
<td>1 (0-0-1)</td>
<td>Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>None</td>
<td>Fall, Spring</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695A</td>
<td>Independent Study: Developmental Anatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695B</td>
<td>Independent Study: Microscopic Anatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695C</td>
<td>Independent Study: Neuroanatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695D</td>
<td>Independent Study: Radiographic Anatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695E</td>
<td>Independent Study: Surgical Anatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 695F</td>
<td>Independent Study: Gross Anatomy</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall, Spring, Summer</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 696</td>
<td>Group Study-Neurosciences</td>
<td>Var[1-3] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall</td>
<td>Instructor Option</td>
<td>No</td>
</tr>
<tr>
<td>BMS 699</td>
<td>Thesis</td>
<td>Var[1-18] (0-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>S/U Sat/Unsat Only</td>
<td>S/U Sat/Unsat Only</td>
<td>No</td>
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<tr>
<td>BMS 742</td>
<td>Ethical Issues in Human Assisted Reproduction</td>
<td>1 (1-0-0)</td>
<td>Course Description: Current topics in neuroscience; how to evaluate scientific presentations.</td>
<td>None</td>
<td>Must be a: Graduate, Professional.</td>
<td>Fall</td>
<td>Instructor Option</td>
<td>No</td>
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</tbody>
</table>

Registration Information: Admission to Biomedical Sciences graduate program required.
BMS 784  Supervised College Teaching  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 792A  Seminar: Biomedical Sciences  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 792B  Seminar: Neurophysiology  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 792C  Seminar: Reproductive Physiology  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 795A  Independent Study: Endocrinology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 795B  Independent Study: Neurophysiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 795C  Independent Study: Cell Physiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 795D  Independent Study: Cardiopulmonary Physiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 795E  Independent Study: Reproductive Physiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 796A  Group Study: Topics in Neuroscience  Credits: Var[1-4] (0-0-0)
Also Offered As: NB 796C.
Course Description: Faculty-directed exploration of areas of special interest in neuroscience.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Written consent of instructor. May not be taken concurrently with NB 796C.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 796B  Group Study: Cardiopulmonary Physiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 796C  Group Study: Reproductive Physiology  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

BMS 799  Dissertation  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.