University of Georgia | College of Veterinary Medicine

Four-Year Plan 2022-2023

Biomedical Physiology

**FIRST YEAR**

**FALL SEMESTER**
- ENGL 1101 - English Composition I
- CHEM 1211-1211L - Freshman Chemistry I
- MATH 2250 or MATH 2400 - Calculus
- Social Science or World Language and Culture Course
- First-Year Odyssey Seminar

**SECOND YEAR**

**FALL SEMESTER**
- BIOL 1107-1107L - Principles of Biology I
- CHEM 2211-2211L - Organic Chemistry I
- Social Science or World Language and Culture Course
- Humanities and the Arts Course

**THIRD YEAR**

**FALL SEMESTER**
- VPHY 3107-3107D (or VPHY 3100 & 3101) - Physiology I
- VPHY 3107L - Physiology Lab
- PHYS 1111-1111L (or PHYS 1211-1211L) - Physics I
- Social Science or World Language and Culture Course
- Major Elective (see below)

**SPRING SEMESTER**
- PMCY 4200 - Pharmacokinetics & Pharmacodynamics
- PMCY 4000 - The War on Cancer
- PMCY 3800 - Introduction to Pharmacology
- PMCY 4100 - The War on Cancer
- PMCY 4200 - Pharmacokinetics & Pharmacodynamics

**FOURTH YEAR**

**FALL SEMESTER**
- One course from: CBIO 3000 or CBIO 3010 or VBDI 4999E or CBIO 3400 or GENE 3200-3200D or MIBO 3500 (Pre-Professional students who require two semesters of organic chemistry take CHEM 2212-2212L)
- BCMB 3100 or BCMB 4020 - Biochemistry
- Social Science or World Language and Culture Course

**SPRING SEMESTER**
- One course from: CBIO 3000 or CBIO 3010 or VBDI 4999E or CBIO 3400 or GENE 3200-3200D or MIBO 3500
- General Elective
- General Elective
- General Elective

**Major Electives:**
- ADNC 3100 - Animal Nutrition & Metabolism
- ADNC 3400 - Physiology of Reproduction in Domestic Animals
- ADNC 3420 - Physiology of Location in Farm Animals
- ADNC (POUL) 4380 - Food Animal Growth and Development
- ADNC 4700-4700L - Equine Nutrition
- ADNC 4110-4140L - Applied Reproductive Management in Cattle and Swine
- ADNC 4230-4230L - Equine Exercise Physiology
- ADNC 4520 - Animal Cognition and Behavior
- ANSU (ADNC) 4560 - Ruminant Nutrition
- ANSU (ADNC) 4570 - Monogastric Nutrition
- BCMB 3433 - Biology for Medicine
- BCMB 3433L - Biology & Molecular Biology I
- BCMB (CHEM) 4110 - Physical Biochemistry
- BCMB 4120 - Human Biochemistry & Disease
- BCMB 4130 - Human Biochemistry II
- BCMB (ENTO) (BTEC) 4200 - Biotechnology
- BOL (WILD) 3700W - Animal Behavior
- BOL 4290W - Science and Health Writing
- BOL 4300W - Scientific Research Writing
- BTEC (BCMB) (POUL) 4000L - Methods in Biotechnology
- CBIO 3000-3000L - Comparative Vertebrate Anatomy
- CBIO 3100-3100L - Gross Anatomy
- CBIO 3400 - Cell Biology
- CBIO 3600 - Developmental Biology
- CBIO 3710 - Principles of Physiology
- CBIO 3810 - Neurobiology
- CBIO (MIBO) (IDS) 4100-4100D - Immunology
- CHEM 4120 - Chemistry of Drug Design and Drug Action
- ECOL 3280 - Evolutionary Medicine
- ECOL 4000-4000L - Ichthyology
- ECOL (BIO) 4150-4150L - Population Biology of Infections
- ECOL 4200-4200L - Physiological Ecology
- ECOL 4771-4771L - Ecological Developmental Biology and Evolutionary Ecology
- EHS 4690 - Environmental Toxicology
- ENTO 3650 or ENTO 3650 - Medical Entomology
- ENTO 4000-4000L - General Entomology
- ENTO 4830 - Insect Behavior
- FDNS 4010 - Macronutrients & Energy Balance
- FDNS 4010 - Optimal Nutrition for the Life Span
- FDNS 4100 - Macronutrient Nutrition
- FDNS (KINS) 4220 - Nutrition in Physical Activity, Exercise, Sport
- FDNS 4350 - Medical Nutrition Therapy II
- FDNS 4590 - Metabolism & Physiology of Energy Balance and Obesity
- FDNS 4800 - Nutrition and Pharmacotherapy for Disease Management
- FISH 4500-4500L - Fish Physiology and Laboratory
- GENE 3200-3200D or GENE 3200H - Genetic or Honors Genetics
- GENE 4220 - Advanced Genetics
- GENE (CBIO) 4110 - Genetic Approaches to Developmental Neuroscience
- GENE 4500 - Human Genetics
- GRTN 3100E - Early Life Influences on Aging
- GRTN 3400E - Cognition and the Aging Brain
- GRTN 7008E - Pharmacology, Health, and Aging
- GRTN IDS 3100 or IDS 3100H - People, Parsons, and Pigeons
- GRTN (POUL) 3110 - Food Animal Infectious Diseases
- GRTN (POUL) 4200 - We Are What We Eat! How Your Gut Influences Your Overall Health
- KINS 3115E - Structural Kinesiology
- KINS 3400 - Wellness Practicum for People with Disabilities
- KINS 3500-3500L - Personal Training
- KINS 3500 - Applied Biomechanics
- KINS 3700 or KINS 3700E - Applied Exercise Physiology
- KINS 4600 - Measurement and Surveillance of Physical Activity
- KINS 4830 - Exercise Physiology
- KINS 4950 - Integrative Cardiovascular Physiology
- KINS 4990-4990L - Neuroimmunology
- KINS 5140 - Current Problems in Kinesiology
- KINS 5200 - Skeletal Muscle & Myotendinous Physiology
- LAMS 3000E - Foundations of Clinical Medicine I
- LAMS 3010E - Foundations of Clinical Medicine II
- LAMS 3020E - Foundations of Clinical Medicine III
- LAMS 3550 - Life in Fluids
- MIBO (BTEC) 4220 or MIBO (POUL) 4220 - Pathogenic Bacteriology
- MIBO 4700 - Medical Mycology
- PMCY 3000 or PMCY 3000E - Human Physiology
- PMCY 3200 - Introduction to Pharmacology
- PMCY 4000 - The War on Cancer
- PMCY 4200 - Pharmacokinetics & Pharmacodynamics
- PMCY 4300 - Medicinal Chemistry
- PMCY 4600 - Biological Therapeutics
- PMCY 5000 - Abused Drugs
- POL 3000-3000L - Avian Surgical Techniques
- POL 3123 - Avian Biology: Ecology, Physiology, and Behavior
- POL 3700 - Integrated Animal Nutrition
- POL (BTEC) 4000 - Reproductive Endocrinology
- POL 4175 - Avian Anatomy & Physiology
- POL 4200-4200L - Avian Anatomy & Physiology
- POL 4300 - Nutritional Immunology in Health & Production
- PSYC 4120 - Sensation & Perception
- PSYC 4130 - Physiological & Comparative Psychology
- PSYC 4140 - Cognitive Neuroscience
- PSYC 4150 - Biological Foundations of Health Psychology
- PSYC 4150 - Pharmacopsychology – Drugs and Behavior
- VBDI 4997E - Pre-Veterinary/Pre-Medical Histology
- VBDI 4999E - Principles Endocrine Physiology and Pharmacology
- VBDI 4999E - Comparative Veterinary Anatomy for Pre-Veterinary Students
- VPD 3100H - Intro to Disease
- VPD 4000 - On the Origins of Disease
- VPD 4100 - Common Diseases of Production Animals
- VPHY 4200 or VPHY 4200E - Physiological Basis of Disease
- VPHY 4300 - Endocrine Physiology
- VPHY 4600 - Physiological Toxicology
- WILD (BTEC) 4000-4000L - Reproductive WILD (BTEC) 4000-4000L - Ornithology
- WILD 4400 - Wildlife Physiology and Nutrition

*This is a sample plan and students are required to meet with an advisor to determine specific course sequencing.*