Courses commonly taken by APSC graduate students:

- AAEC 5104: Research Project Planning
- ALCE 5104: Research Applications in ALCE
- ALS 5004: Animal Nutrition Seminar
- ALS 5064 (BIOL 5064) (PPWS 5064) (BCHM 5064): Seminar in Molecular Cell Biology and Biotechnology
- ALS 5084: Advanced Ruminant Nutrition Colloquium
- ALS 5094: Effective Grant Writing
- ALS 5115: Nutrition
- ALS 5116: Nutrition
- ALS 5204: Research and Information Systems in the Life Sciences
- ALS 5304: Advanced Physiology and Anatomy of Domestic Animals
- ALS 5314: Comparative Reproductive Physiology
- ALS 5324: Research Ethics in Agriculture and Life Sciences
- ALS 5334: Professional Communication Agriculture & Life Sciences
- ALS 5405: Analysis of Animal Experiments with SAS
- ALS 5406: Analysis of Animal Experiments with SAS
- ALS 5504: Quantitative Genetics Applications of Matrix Algebra
- ALS 6314: Endocrinology
- APSC 5004: Graduate Seminar
- APSC 5104: Professional Development of Graduate Students
- APSC 5044 (PPWS 5044): Biotechnology in Agriculture & Society
- APSC 5054G: Advanced Genomics
- APSC 5444: Current Topics in Reproduction
- BCHM 5124: Biochemistry for the Life Sciences
- BCHM 5224: Protein Structure and Function
- BCHM 5344 (PPWS 5344): Molecular Biology for the Life Sciences
- BIOL 5104: Advanced Developmental Biology
- BIOL 5404: Neuroethology
- BIOL 5434: Behavioral Endocrinology
- BIOL 5884: Molecular Biology of the Cell
- BMES 5314: Introduction to Regenerative Medicine
- BVMS 5044: Veterinary Immunology
- BMVS 5574: Advanced Poultry Diseases
- BMVS 6714: Frontiers of Immunology in Health and Disease
- BSE 5624: Enzyme Engineering
- CSES 5214: Soil-Plant Relationships
- CSES 5544: Soil-Plant-Animal Interrelationships in Grasslands
- CSES 5554: Ecology of Grazing Land Systems
- GRAD 5004: GTA Workshop
- GRAD 5104: Academic Integrity and Plagiarism
- HNFE 5224: Proteins and Enzymes in Foods
- HNFE 5804: Exercise Physiology
- STAT 5044: Regression and Analysis of Variance
- STAT 5124: Linear Models Theory
- STAT 5204: Experimental Design and Analysis I
- STAT 5204G: Experimental Design: Concepts and Applications
- STAT 5605: Biometry
- STAT 5606: Biometry
- STAT 5615: Statistics in Research
- STAT 5616: Statistics in Research

We also offer special studies (APSC 5984) in topics such as:

- Advanced Bovine Reproduction Practices
- Animal Genome Biology
- Current Topics in Embryology
- Economic Breeding Programs
- Heterosis & Crossbreeding Sys
- Muscle Form and Function
- Primer to Quantitative Genetics
- Regulation Livestock Growth
- Selection Index Theory & App

Up to 6 credits of 4000-level courses may count towards degree requirements. Related courses include:

- ALS 4574 (BIOL 4574): Social Behavior of Birds and Mammals
- APSC 4004: Contemporary Issues in the Animal Sciences
- APSC 4054 (BCHM 4054): Genomics
- APSC 4064: Issues in Companion Animal Management
- APSC 4124: Equine Health and Disease
- APSC 4224: Equine Exercise Physiology
- APSC 4304 (DASC 4304): Bovine Reproduction Practices
- APSC 4324: Equine Reproduction and Neonatal Care
- APSC 4404: Commercial Poultry Enterprise Management
- APSC 4414: Beef and Sheep Production and Industry
- APSC 4424: Horse Production and Management
- APSC 4444: Swine Production
- APSC 4464: Companion and Laboratory Animal Health and Management
- APSC 4554: Advanced Livestock Enterprise Management
- APSC 4624: Topics in Equine Science
- BIOL 4704: Immunology
- CSES 4544: Forage Crop Ecology
- ENGL 4804: Grant Proposals and Reports
- FST 4504: Food Chemistry
- FST 4604 (BIOL 4604): Food Microbiology

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