

APPLIED ANIMAL SCIENCE (AAS)

Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

AAS 421 - Large Animal Behavior and Handling Techniques

Credits: 2

Introduction to domestic large animal behavior and handling techniques. Cattle, horses, swine, and sheep are used in this course. Students perform routine health-related procedures and gain valuable hands-on skills and safe animal handling techniques which can be applied to the fields of veterinary medicine, animal research, commercial agriculture, and animal control. 1 lec/1 lab.

Equivalent(s): AAS 221, ANSC 408, ANSC 508

AAS #422 - Small Animal Grooming I

Credits: 2

Introduction to pet grooming. Course covers the techniques and styles of brushing, grooming, clipping, trimming, and bathing common breeds of dogs and cats. Students perform basic grooming in lab period. Special fee for non-TSAS students. 1 lec/1 lab.

Repeat Rule: May be repeated for a maximum of 4 credits.

Equivalent(s): AAS 222

AAS 423 - Dairy Selection

Credits: 2

Selection techniques used in cattle for purchase, breeding, and genetic improvement through the use of visual evaluation, pedigrees, production, and progeny information. 1 lec/1 lab. Special Fee.

Equivalent(s): AAS 223

AAS 425 - Introduction to Dairy Herd Management

Credits: 4

The course explores economic, scientific and practical aspects of dairy herd management. The topics covered include history, cattle selection, nutrition, housing, milking, and disease prevention strategies. There are a number of field trips and weekly labs emphasizing management and hands-on experience.

Equivalent(s): AAS 244, ANSC 409, ANSC 410

AAS 428 - Anatomy and Physiology of Domestic Animals

Credits: 4

An overview course describing the anatomy (structure) and physiology (function) of domestic animals, focusing on canine, feline, equine, and bovine species. Anatomic and physiologic topics are intertwined as the course progresses through each body system. Relevant species differences are stressed. Focus is on applied concepts appropriate for animal-related careers. Special Fee.

Equivalent(s): AAS 228

AAS 428B - Anatomy and Physiology of Domestic Animals Lab for VTEC majors

Credits: 1

Reinforces material presented in AAS 428 lecture and introduces students to the animal body by hands-on study of anatomy. Anatomical relationships and concepts that are important for the medical care of animals are presented. The feline species will be the primary anatomical model used. Comparative anatomy of bovine, equine, and avian species will also be covered. Course is required of Veterinary Technology majors and is designed to be taken along with AAS 428 lecture.

Co-requisite: AAS 428

AAS 432 - Introduction to Forage and Grassland Management

Credits: 0-3

Introduction to grasslands of the world and their management. Special emphasis on the identification, production, and utilization of New England forage crops for feeding domestic farm animals. The course includes the selection of local plant species and varieties, including their management and recommended harvesting practices. The course also includes a basic introduction to soils, as well as nutrient and fertility management.

Equivalent(s): AAS 232

AAS #433 - Small Animal Grooming II

Credits: 2

Continuation of AAS #422 Small Animal Grooming I with the addition of on-line canine dermatology and topical therapy basics. Student is assigned more complex breeds to groom and develops more proficiency in scissoring, hand stripping and clipping. Must have taken AAS #422. Special fee for non-TSAS students. 2 lab.

Equivalent(s): AAS 233

AAS 434 - Equipment and Facilities Management

Credits: 0 or 3

Operation of agricultural equipment and maintenance of agricultural facilities as found in New England. Development of the essential skills and technical information needed to manage and supervise agricultural facilities and equipment. 2 lec/1 lab.

Equivalent(s): AAS 234

AAS 439 - Fundamentals of Animal Health

Credits: 2

Covers the principles of maintaining animal health by preventing and managing disease via husbandry, immunization, diagnostic testing and treatment. Focus is on domestic species; primarily dogs, cats, horses and cows. Topics include external and internal parasitology, microbiology, immunology including vaccination, and disease treatment. Course is designed to be taken along with the appropriate lab section: AAS 439A for Applied Animal Science majors or AAS 439B for VTEC majors, respectively. No credit earned if credit was received for VTEC 439.

Equivalent(s): AAS 239, VTEC 439

AAS #445 - Veterinary Assisting Techniques

Credits: 4

Course is designed to prepare students to enter veterinary practice as a veterinary assistant. Topics include veterinary pharmaceuticals; animal nursing including record keeping, patient observation, husbandry, and disease control; surgical preparation and assisting including surgical instrumentation, sterilization and patient management; laboratory sample collection and handling; and diagnostic imaging including radiography safety, patient positioning, radiographic film processing and filing, and ultrasound. Required for completion of the veterinary assisting certificate.

AAS 527 - Companion Animal Diseases

Credits: 2

Common diseases in companion animals discussed system by system; emphasis on canine, feline, equine, and ruminant species. Other species covered based on class interest. Disease pathogenesis, diagnosis, and treatment are covered. Care-based learning includes developing differential diagnosis lists and technician evaluations and interventions. AAS 428 or another Anatomy and Physiology course is strongly suggested as a pre-requisite.

Equivalent(s): AAS 227

AAS 574 - Dairy Cattle Disease Seminar

Credits: 2

Covers principles of the immune response, immunological basis for disease control, and emphasizes management practices to prevent disease and maintain optimal animal health in dairy cattle. Numerous guest lecturers, field and case studies, and emphasis on current topics of interest to the industry.

Equivalent(s): AAS 274

AAS 591 - Studies

Credits: 1-3

Students who have the ability and adequate preparation to work independently may propose a contract to design a course or research project on a topic not available through existing course offerings. The purpose of this research is to explore new areas in the student's field of study or to pursue course material in greater depth. Work is supervised by an appropriate faculty/staff member and credit varies depending on the proposed project/research. Areas may include dairy, light horses, livestock, poultry, meats, forages, management, small animals, or general animal science. Permission required.

Repeat Rule: May be repeated for a maximum of 6 credits.

Equivalent(s): AAS 291

AAS #592 - Studies

Credits: 1-3

Students who have the ability and adequate preparation to work independently may propose a contract to design a course or research project on a topic not available through existing course offerings. The purpose of this research is to explore new areas in the student's field of study or to pursue course material in greater depth. Work is supervised by an appropriate faculty/staff member and credit varies depending on the proposed project/research. Areas may include dairy, light horses, livestock, poultry, meats, forages, management, small animals, or general animal science. Permission required.

Repeat Rule: May be repeated for a maximum of 6 credits.

Equivalent(s): AAS 292

AAS 597 - Applied Animal Science Work Experience

Credits: 0

Employment (12 weeks, generally in the summer following the first year) in an approved animal-related position. Cr/F.

Equivalent(s): AAS 297