

## ANSC - Animal Science Courses

### ANSC B1 Introduction to Animal Science

3 units

**Recommended:** BC placement into reading level 06.

**Description:** Survey of the livestock industry, supply of animal products and their uses; special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the global Ag industry; analysis of the economic trends and career opportunities in animal agriculture. Nutrition, digestive systems, breeds, selection, and reproduction are included in course. Field trips may be required.

**C-ID:** AG + AS 104

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU, UC, and private colleges; BC GE B.1

### ANSC B2 Beef Production

3 units

**Description:** Defines and appraises all segments of the beef industry, focusing on production, reproduction, marketing, and processing. History and development of important breeds and their contribution to the U.S. beef industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed, and applied.

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B3 Sheep Production

3 units

**Description:** Defines and appraises all segments of the sheep industry focusing on production, reproduction, marketing, and wool. History and development of important breeds and their contributions to the U.S. sheep industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed, and applied.

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B4 Dairy Production

3 units

**Description:** Defines and appraises all segments of the dairy industry focusing on production, reproduction, marketing and milk/dairy processing. History and development of important breeds and their contribution to the U.S. dairy industry will be emphasized. Selection, nutrition, health management, handling, and processing will be defined, analyzed and applied.

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B5 Swine Production

3 units

**Description:** Application of the principles of nutrition, physiology, herd selection, breeding, and marketing to swine production and management. Structure of the industry, enterprise establishment, systems of production, production practices and herd improvement programs will be discussed. Evaluation of production responses and economic returns will be defined, analyzed, and applied.

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B6 Applied Animal Nutrition

4 units

**Description:** Covers fundamentals of feeding livestock, including feed composition, feed nutrients, and values, digestive systems of major livestock species and their utilization of feedstuffs, ration balancing, computer analysis of feed, and least cost formulation.

**Hours:** 54 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B7 Animal Diseases

3 units

**Description:** Covers major and common diseases of farm livestock, focusing on the cause, symptoms, treatment and prevention of the specific diseases. Students will learn fundamentals of the immune system and use of vaccines and pharmaceuticals. Safe use, particularly in food animals is stressed.

**Hours:** 54 lecture

**Transferable:** CSU and private colleges.

### ANSC B10 Horse Production

3 units

**Description:** Survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health, reproductive management, basic horsemanship, and stabling alternatives. Laboratory required.

**C-ID:** AG-AS 116L

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU and private colleges.

### ANSC B11 Livestock Selection and Evaluation

3 units

**Description:** Detailed analysis of visual, analytical, and physical methods of appraising beef, sheep, swine and horses concerning functional and economic value; written and oral summaries of evaluation; specific reference made to performance data and factors determining carcass value. Lab required.

**Hours:** 36 lecture, 54 lab

**Transferable:** CSU, UC, and private colleges

### ANSC B22 Animals and Society

3 units

**Description:** Deals with the human/animal bond and the positive/controversial aspects of animals in human lives. Includes topics covering the scientific and psychological implications of animals in our society. Students will encounter and analyze social and ethical issues that affect society and veterinary medicine.

**Hours:** 54 lecture

**Transferable:** CSU, UC, and private colleges

### ANSC B48WE Occupational Work Experience Education/Internship

1-8 units

**Prerequisites:** Declared major or occupational goal and evaluation of student's qualifications and objectives.

**Description:** College credit for animal science related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students

must work 75 paid hours or 60 non-paid hours per unit. Repetition allowed per Title 5 55253.

**Hours:** Non-paid 60 hours for each 1 unit (60 - 480). Paid 75 hours for each 1 unit (75 - 600).

**Transferable:** CSU and private colleges.

### **ANSC B83 Introduction to Veterinary Technology**

*4 units*

**Description:** Introductory course designed to orientate and instruct students in knowledge required for success in advanced veterinary technology courses. Topics include: anatomy and physiology of domestic animals (Integumentary, cardiovascular, respiratory, reproductive, gastrointestinal, and neurological systems), nutrition, pharmacology, basics of chemistry, biology, microbiology, (including cellular anatomy/physiology), genetics and heredity, and career opportunities. Medical terminology, regulations, office management and record keeping skills are also covered, as they pertain to working in a veterinary practice. Field trips may be required. Occupational Education.

**Note:** Formerly ANSC B80 and ANSC B82.

**Hours:** 72 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B84 Small Animal Diseases**

*1.5 units*

**Prerequisites:** Successful completion of ANSC B83 with a grade of 'C' or better.

**Description:** Presents knowledge of diseases in small domestic animals, including prevention and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis that the technician uses to assist veterinarian. Also covers animal husbandry procedures relating to disease prevention. Disease entities to be taught include: mechanical, genetic, infectious, nutritional, endocrine, and metabolic conditions.

**Hours:** 27 lecture

**Transferable:** Not transferable. Degree Applicable

### **ANSC B85 Large Animal Diseases**

*1.5 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with grades of C or better.

**Description:** Covers diseases in large animals, including diagnosis, prevention, and treatment programs. Includes instruction in physical diagnosis and discussion of tests and procedures needed for proper diagnosis. Instruction in animal nursing and husbandry procedures relating to disease prevention will also be included. Disease entities taught include infectious, nutritional, endocrine, mechanical and metabolic conditions.

**Hours:** 27 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B86 Pharmacology for Veterinary Technicians**

*1.5 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with a grade of C or better.

**Description:** Instruct students with required knowledge of pharmacological and biological agents used in veterinary medicine, including calculations, classifications, action, and methods of administration, dispensing and labeling. FDA, USDA, and DEA guidelines regarding restricted and scheduled drugs, as they relate to small animals and residue avoidance in food animals. Dosages, agents, and administration of pharmaceuticals are covered.

**Hours:** 27 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B88 Surgery, Dental, Anesthesiology for Veterinary Technicians**

*1.5 units*

**Prerequisite:** Successful completion of ANSC B83 with grade of C or better.

**Description:** Instruction in the identification and care of instruments, the importance of asepsis and sterilization techniques, surgical pack preparation, anesthetic instrumentation, induction and monitoring, surgical nursing, assisting and instrumentation, and suturing techniques used in veterinary medicine.

**Hours:** 27 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B90 Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians**

*2 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with grade of C or better.

**Description:** Provides the student with knowledge required to recognized and provide emergency and critical care to veterinary patient, including establishing a patent airway, administering oxygen, controlling hemorrhage, performing CPR, and stabilizing patient to prevent and/or treat shock.

**Hours:** 36 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B92 Clinical Pathology for Veterinary Technicians**

*2 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with grade of C or better.

**Description:** Course covers biology, microbiology, parasitological cytology, urinalysis, hematology, serology, and pathology necessary for a career as a Registered Veterinary Technician. The student will be instructed in normal and abnormal test values. Course covers the understanding, reading and application of specific test results, as well as specimen handling and necropsy techniques.

**Hours:** 36 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B94 Caged Birds, Lab, and Exotic Animal Medicine**

*2 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with grade of C or better.

**Description:** Covers anatomy, physiology, disease descriptions, and identification of caged birds, lab, and exotic animals. Instruction in restraint, physical examination, anesthesia, surgery, specimen collection, species identification, and the legal ramifications of owning exotic animals.

**Hours:** 36 lecture

**Transferable:** Not transferable. Degree applicable.

### **ANSC B96 Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology**

*1.5 units*

**Prerequisite:** Successful completion of either ANSC B83 or both ANSC B80 and ANSC B82 with grade of C or better.

**Description:** Course is intended to give the student a sound knowledge of the techniques used in physical imaging in veterinary medicine. Includes history, statutes, and regulations, positioning techniques, developing, and film and screen characteristics.

Instruction includes knowledge for preparing patient for imaging (radiograph and ultrasonography), positioning patient for imaging, safety during imaging, processing images/radiographic film, and maintenance of imaging equipment.

**Hours:** 27 lecture

**Transferable:** Not transferable. Degree applicable.