

## Equine Science Course Descriptions

### **(4) ANEQ 102 Introduction to Equine Science (F)**

Must register for lecture and laboratory. Equine physiology, production systems and management systems as it pertains to the equine industry and management.

### **(1) ANEQ 202 Safety in Horse Handling (F)**

Focus will be on haltering, leading, ground handling skills, general behavior and grooming.

### **(2) ANEQ 203 Equine Management (S)**

Prerequisite: ANEQ 102

Equine management and care techniques with hands-on experience.

### **(1) ANEQ 249 Introduction to the Trail Riding Industry (F, S)**

Prerequisite: Written consent of Instructor

Emphasis on horse care, regulations, first aid, health, training, and hosting a trail ride.

### **(1) ANEQ 292 Equine Industry Seminar (S)**

Prerequisite: ANEQ 102.

Overview of the equine industry and industry careers.

### **(1) ANEQ 300W Equine Manure Management (S)**

Prerequisite: ANEQ 101 or ANEQ 102

### **(2) ANEQ 315 Equine Behavior (S)**

Prerequisite: ANEQ 102; sophomore or higher standing.

Must register for lecture and laboratory. Equine behaviors related to training and learning.

### **(2) ANEQ 325 Exercise Physiology (S)**

Prerequisite: ANEQ 230 or BMS 300

Overview of the main aspects related to equine exercise physiology.

### **(2) ANEQ 334 Equine Genetics (S)**

Prerequisites: ANEQ 102; SOCR 330 or BZ 350 or MIP 450; STAT 301 or STAT 307 or STAT 315

Principles of breeding and genetic improvement of horses, including qualitative and quantitative traits.

### **(3) ANEQ 340 Horse Training and Sale Preparation I (F)**

Prerequisite: Written consent of instructor.

Practical training skills using a yearling or two year old in-hand, restraint, ground driving, longeing, first rides, stable management.

### **(3) ANEQ 341 Horse Training and Sale Preparation II (S)**

Prerequisite: ANEQ 340.

Skills in training for specific riding maneuvers, conditioning, fitting for sale and stable management. Additional time outside of class required on weekends.

**(4) ANEQ 344 Principles of Equine Reproduction (F)**

Prerequisite: ANEQ 102; ANEQ 230 or ANEQ 310 or BMS 300 or BMS 305 or VS 333. Must register for lecture and laboratory. Principles of reproduction and reproductive management of the mare and stallion.

**(3) ANEQ 345 Principles of Nutrition: Equine Applications (F, S)**

Prerequisite: ANEQ 102; ANEQ 230 or ANEQ 320 or BMS 300 or BMS 305 or VS 333; 3 credits 100-level chemistry; 3 credits of math.

Principles of nutrition; application in feeding horses in different physiological states to promote health and wellness.

**(3) ANEQ 346 Equine Disease Management (F)**

Prerequisite: ANEQ 230 or BMS 230 or BMS 300 or BMS 305 or VS 333.

Lameness and common diseases of horses.

**(2) ANEQ 349 Packing and Outfitting (F, S)**

Prerequisite: ANEQ 102 and written consent of instructor. Must register for lecture and laboratory. Business aspects of outfitting/packing the horse; hitches, knots, horse care; planning pack trips, setting up camp. Overnight pack trip included.

**(2) ANEQ 351 02(1-2-0) Techniques in Therapeutic Riding (F, S)**

Prerequisite: ANEQ 102

Must register for lecture and laboratory. Equine assisted activities, therapeutic horseback riding, hippotherapy, driving/vaulting, mental health treatments, and programs for youth at risk.

**(2) ANEQ 352 Introduction to Horse Judging (S)**

Prerequisite: ANEQ 102

Criteria and techniques for evaluation of horses; development of logical decision processes for establishing comparative value.

**(3) ANEQ 353 Advanced Horse Judging (F)**

Prerequisite: ANEQ 352

Advanced criteria/techniques for horse evaluation; logical decision process development to establish comparative value; intercollegiate competition.

**(2) ANEQ 358 Equine Event and Sales Management (F)**

Prerequisite: ANEQ 102

Skills necessary to produce, organize, and promote equine related events.

**(2) ANEQ 359 Equine Sales Production (S)**

Prerequisite: ANEQ 358 and written consent of the instructor

Emphasizes skills necessary to host and evaluate an equine sale.

**(1-5) ANEQ 384 Supervised College Teaching (F, S, SS)**

Prerequisite: Written consent of instructor. Maximum of 6 credits allowed in course. Maximum of 12 credits allowed for any combination of the following courses: ANEQ 350A-E, ANEQ 384, ANEQ 487, ANEQ 495, ANEQ 496.

**(2) ANEQ 386B Equine Practicum-Equine Reproductive Management (S, SS)**

Prerequisite: ANEQ 344. Must register for lecture and laboratory.

**(1) ANEQ 386C Equine Practicum-Equine Farrier Management (S)**

Prerequisite: ANEQ 102.

**(3) ANEQ 440 Equine Production and Industry (F, S)**

Prerequisite: 2 of the following: ANEQ 334, ANEQ 344, ANEQ 345, ANEQ 346. For students planning a career in the horse industry; management of facilities, production systems, personnel, marketing, and biological systems.

**(2) ANEQ 441 Integrated Equine Science (F, SS)**

Prerequisite: ANEQ 334, 344, 345 and 346. In this course, students will have the opportunity to read, evaluate and integrate scientific information in all of the scientific disciplines (genetics, reproduction, nutrition and disease). They will discuss how scientific concepts affect equine care and management during the course.

**(2) ANEQ 442 Riding Instructor Training (F, S)**

Prerequisite: ANEQ 102; written consent of instructor.

Teaching techniques; theory, handling of large mounted groups, beginner through advanced levels.

**(2) ANEQ 443 Applied Equine Nutrition (S)**

Prerequisite: ANEQ 345

Applying principles of nutrition to feeding horses in different physiological states in an effort to promote their health and well-being.

**(2) ANEQ 444 Equine Business Management (S, SS)**

Prerequisite: ANEQ 440 Students will learn the ins and outs of what it takes to manage an equine facility / business. Course will include lectures, visits to equine businesses, video conferencing with equine business owners and a capstone project.

**(2) ANEQ 445 Foaling Management (S)**

Prerequisite: ANEQ 344

Must register for lecture and laboratory. Management of the foaling mare and new born foal; monitoring techniques, preventative and emergency care procedures.

**(Var.) ANEQ 487 Internship**

Prerequisite: Written consent of instructor. Maximum of 6 credits allowed in course. Maximum of 12 credits allowed for any combination of the following courses: ANEQ 350A-E, ANEQ 384, ANEQ 487, ANEQ 495, ANEQ 496.

**(Var.) ANEQ 495 Independent Study**

Prerequisite: Written consent of instructor. Maximum of 6 credits allowed in course. Maximum of 12 credits allowed for any combination of the following courses: ANEQ 350A-E, ANEQ 384, ANEQ 487, ANEQ 495, ANEQ 496.

**(Var.) ANEQ 496 Group Study**

Prerequisite: Written consent of instructor. Maximum of 6 credits allowed in course. Maximum of 12 credits allowed for any combination of the following courses: ANEQ 350A-E, ANEQ 384, ANEQ 487, ANEQ 495, ANEQ 496.