

Equine Science Courses

EQSC 2321 - Horse Evaluation

Hours: 3

(AGRI 2321) Three semester hours (2 lecture, 2 lab). Introduction to horse judging. Establishes the critical and analytical thinking skills, judgment, and written and oral communication skills in preparation for horse judging in competitive settings.

EQSC 140 - Introduction to Horsemanship and Equitation

Hours: 3

Three semester hours (2 lec / 2 lab) Introduction to horse handling and equitation including grooming, saddling, bridling, horse care and basic riding techniques (English and Western). Emphasis on practical work and confidence building for students with little or no horse experience.

EQSC 220 - Intermediate Horsemanship and Equitation

Hours: 3

Three semester hours (2 lec / 2 lab) This course focuses on the refinement of the skills of western riders with some previous experience. The emphasis is on training or conditioning of older horses, and understanding equine behavior as it relates to riding and training horses. Prerequisites: EQSC 140 or instructor approval.

EQSC 240 - Introduction to Equine Science

Hours: 3

Three semester hours (2 lec / 2 lab) Introduction to structure and function of the horse, equine management, nutrition, conformation, biomechanics, reproduction and health. Overview of the equine industry and career choices.

EQSC 241 - Advanced Horsemanship

Hours: 3

Three semester hours (2 lec / 2 lab) Refinement of equitation and horse training principles for various disciplines. Prerequisites: EQSC 240, EQSC 345.

EQSC 297 - Special Topics

Hours: 1-4

Organized class. May be repeated when topics vary. Prerequisites: Consent of department head.

EQSC 321 - Equine Genetics and Mating Selection

Hours: 3

Principles of genetics, and application of breeding selection with emphasis on the horse. Study of genetic disorders, inheritance, and genetic improvement of horses. Prerequisites: ANS 118 or EQSC 240.

EQSC 322 - Equine Exercise Physiology

Hours: 3

Fundamentals of evidence-based equine training and exercise methods. Discussion of training programs, their assessment and effectiveness, and prevention of exercise-induced injuries. Prerequisites: ANS 1319 or EQSC 240, and EQSC 323.

EQSC 323 - Equine Anatomy and Physiology

Hours: 3

Equine structure and function with emphasis on the nervous, respiratory, digestive, cardiovascular and musculoskeletal systems.

EQSC 325 - Advanced Horse Evaluation

Hours: 3

Three semester hours (2 lec / 2 lab) Course emphasis is on equine evaluation in competition with refinement of decision making and public speaking skills. Travel to horse competitions is required. Prerequisites: EQSC 225.

EQSC 335 - Stock Horse Equitation

Hours: 3

Three semester hours (2 lec / 2 lab) This course focuses on the training and showing of horse in collegiate stock horse competition. Prerequisites: Instructor approval.

EQSC 340 - Equine Marketing and Sale Fitting

Hours: 3

Three semester hours (2 lec / 2 lab) This class is designed to help students learn the objectives for training yearling colts. The students will do ground work with the horses that is beyond halter breaking the colts. The students will work on getting horses ready for the many aspects involved in being saddle horses. The students will learn how to teach the colts to walk, trot, and lope in both directions on a longe line, load into a trailer on their own, listen to verbal commands, come up to people in the pasture for catching, stand correctly and still for purposes of show, general obedience, and future farrier needs, as well as many other aspects of training a young horse.

EQSC 341 - 2-Yr-Old Horse Training

Hours: 3

Three semester hours (2 lec / 2 lab) Habituation of the young horse to tack and work under saddle. Prerequisites: EQSC 240, EQSC 241, EQSC 345.

EQSC 342 - Equine Nutrition

Hours: 3

Nutrition of the horse according to stage of development, use and training. Discussion of ration formulation, feeding practice and digestive disorders.

Prerequisites: ANS 1319 or EQSC 240.

EQSC 343 - Equine Reproduction

Hours: 3

Anatomy and physiology of the mare and stallion including lactation, endocrinology, parturition, semen quality and behavior. Management of broodmares, stallions and foals. Prerequisites: ANS 1319 or EQSC 240.

EQSC 345 - Equine Training

Hours: 3

Three semester hours (2 lec / 2 lab) Introduction to equine perception, behavior, memory and learning. Behavior analysis in young and adult horses and application of evidence-based training principles. Introduction of corrective methods to discourage unwanted behaviors and enforce the desired behaviors. Prerequisites: EQSC 220 or instructor approval.

EQSC 346 - Equine Reproductive Techniques

Hours: 3

Three semester hours (2 lec / 2 lab) Introduction to routine reproductive techniques such as estrus detection, semen management, breeding techniques, artificial insemination, sonographic pregnancy diagnosis, and introduction to reproductive health management. Emphasis is on stallion, mare and foal examination and application of veterinary techniques related to equine reproduction. Prerequisites: ANS 1319 or EQSC 240, EQSC 343.

EQSC 350 - Equine Sales & Marketing

Hours: 3

Three semester hours (2 lec / 2 lab) This course involves discussions of the economic, structural, cultural, and political factors impacting marketing functions in equine business enterprises. Advertising and promotions for sale horses, determining prices for horses, breeding fees, how to analyze pedigrees and black type pedigrees, as well as the application of market research design and methodology in establishing equine sales related businesses. Students will also learn how to fit and prepare a young horses for sale. Prerequisites: EQSC 240 or ANS 1319.

EQSC 355 - Equine Industry Tour

Hours: 3

Three semester hours (2 lec / 2 lab) Tours of breeding, training, and competition facilities that are of importance to the equine industry. An additional course fee may be assessed to cover travel, and lodging arrangements. The student will be required to pay this course fee in advance of departure for the tour. Scholarship funds may not cover the additional expense of this course. Student will be responsible for own meals and extras. Prerequisites: EQSC 240.

EQSC 389 - Independent Study

Hours: 0-4

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Consent of department head.

EQSC 441 - Stable Management

Hours: 3

Horse and barn management principles for breeding, training or boarding facilities including horse and client safety, preventative health care, record keeping, emergency care, facility and manure management, feed and supply management, equine law and customer relations. Prerequisites: EQSC 240.

EQSC 443 - Equine Enterprise Management

Hours: 3

Application of economic principles to the equine industry in order to develop a profitable equine business. Discussion of strategies to develop a business idea or a starter business, as well as adequate pricing and marketing of equine services. Prerequisites: ANS 118 or EQSC 240.

EQSC 489 - Independent Study

Hours: 1-4

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member. May be repeated when the topic varies. Prerequisites: Consent of department head.

EQSC 490 - H Honors Thesis

Hours: 3

Honors Thesis. Three semester hours.

EQSC 491 - H Ind Honors Readings

Hours: 3

Individualized instruction/research at an advanced level in a specialized content area under the direction of a faculty member.

EQSC 497 - Special Topics

Hours: 0-4

Special Topic