MU Animal Science Division
Equine Program – Course Offerings

Horse Farm Volunteers – Available during Fall, Spring, and Summer
- Working with young stock, reproduction, and general farm mgmt
- NO EXPERIENCE NECESSARY, Great place to learn about horse care and handling!
- Responsible for feeding and caring for breeding herd, daily health assessment
- Participate in monthly demonstrations and hands-on learning of various equine topics
- Must apply at the end of the semester prior to the semester you wish to volunteer

AS 2135 (Fall): Equine Selection and Evaluation – 2 units
- Prerequisites: AS 1065 or Instructor Consent
- This course discusses selecting a horse for a particular purpose and evaluating their conformation. Topics cover anatomy, conformation, movement, overview of horse competitions, and selling / buying a horse.
- Course Objectives:
  o Demonstrate an understanding of selection terminology.
  o Identify quality horses & evaluate conformation as it relates to soundness.
  o Select a suitable horse for personal use.
  o Recognize desirable characteristics for various disciplines and breeds.
  o Present rationale for judging and ranking a group of horses.
  o List means and techniques of marketing.

AS 2195 (Fall): Equine Facility Management & Marketing – 3 units
- Prerequisites: AS 2135 (or taken concurrently), Instructor Consent (must apply ahead of time)
- You may not take this course at the same time as Equine Behavior & Training.
- Topics cover hands on barn management and care, handling young stock, taking sale photos and marketing sale horses. This class organizes and runs our MU Horse Auction Preview in November and manages the Equine Teaching Facility during the fall semester.
- Course Objectives:
  o Apply knowledge about animal handling in a real world management situation.
  o Develop an understanding of equine nutrition & care as it relates to management.
  o Demonstrate ability to safely handle a variety of horses.
  o Identify means and techniques of marketing horses.
  o Develop familiarity with bloodlines, training, and other attributes and how they relate to successful marketing.

AS 4977 (Spring): Horse Production – 3 units
- Prerequisites: AS 1065, 2175, and 3212
- Topics cover upper level equine anatomy, nutrition, reproduction, physiology, behavior and disease. Each of these topics is combined to cover equine management practices, while considering each of these topics and the science behind our management decisions.
- Course Objectives:
  o Evaluate and critique selection criteria for breeding horses.
  o Describe the anatomy of the equine hooves and legs as they relate to locomotion, soundness, and unsoundness.
  o Describe and evaluate common domestic equine reproductive methods.
  o Develop effective feeding and health programs for various classes of horses.
  o Demonstrate an understanding of equine management practices.
AS 2095 (Fall): Equine Behavior and Training – 3 units
- Prerequisites: AS 1065, Instructor Consent (must apply ahead of time)
- Preference given to upper classmen
- NO EXPERIENCE NECESSARY
- **You may not take this course at the same time as Equine Barn Mgt & Marketing.**
- Topics cover behavior as it relates to training. Each student is assigned a project horse to train for the semester. These horses are then sold in our MU Online Horse Auction in November.
- Course Objectives:
  - Describe and explain basic animal behavior modification through use of positive and negative reinforcement and shaping.
  - Develop an individual training program to enhance a horse’s value, athletic potential and inherent abilities in a natural progressive way.
  - Apply classical, practical and proven equine training techniques to a project animal for achievement of safe non-traumatic learning for the horse and trainer.
  - Critically evaluate training methods used and advocated by others in a thoughtful constructive manner.
  - Develop and maintain a professional animal training journal.
  - Present a horse to be judged or evaluated by a potential buyer.

AS 4387 (Spring): Equine Breeding Management – 5 units
- Prerequisites: AS 2175, 4314 and Instructor Consent (must apply ahead of time)
- Preference given to upper classmen
- Topics cover topics including artificial insemination, foaling, estrus detection, stallion collect, semen evaluation, and handling newborn foals. This class manages the Equine Teaching Facility breeding herd during the spring semester and is in charge of all foaling and breeding activities.
- Course Objectives:
  - Identify major anatomical features of the mare and stallion reproductive tract and relate the structure to its function.
  - Describe the major reproductive and endocrine pathways in the mare and stallion.
  - Understand the estrous cycle and its components, and how this relates to estrous manipulation.
  - Incorporate an understanding of reproductive physiology and behavior to develop management techniques for a successful breeding operation.
  - Demonstrate ability to properly tease mares, collect a stallion, process semen, and artificially inseminate mares.
  - Identify and monitor signs of impending parturition in the mare and successful care for mare and foal during the post-partum period.
  - Demonstrate ability to safely handle a variety of horses.

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http://horses.missouri.edu
www.facebook.com/MUEquine

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