

## EQUINE SCIENCE (EQS)

### Degrees offered: B.A. or B.S.

The B.A. or B.S. in Equine Science will provide an outlet of learning and exploration for those with a strong interest in the field of equitation and provide a sound and academically rigorous, yet flexible, course of study for students. Graduates will be prepared to achieve in a variety of areas: barn management, business, horse racing, therapy, and graduate study.

### Requirements for the Equine Science Major

The Major in Equine Science consists of the following 30 hours:

EQS 201	Animal Science	(3 hours)
EQS 232	Equine Management	(3 hours)
EQS 331	Equine Disease Management	(3 hours)
EQS 333	Animal Nutrition	(3 hours)
EQS 351	Equine Anatomy and Physiology	(3 hours)
EQS 400	Equine Capstone Seminar	(1 hour)
EQS 431	Small Business Management	
	Theories and Methods of Contemporary	(3 hours)
EQS 432	Natural Horsemanship	(1 hour)
EQS 471	Principles of Riding Instruction	(3 hours)
EQS	Internship	(3 hours)
BIO 400	Riding Classes	(1 hour)
	Seminar	

Equine Science majors are required to take the following as prerequisites

BUS 101	Principles of Macroeconomics	(3 hours)
BIO 103	Foundations of Biology <b><u>OR</u></b>	
BIO 104	Principles of Biology	(4 hours)
PSY 201	General Psychology	(3 hours)

### **Requirements for the Equine Science Minor**

The Minor in Equine Science consists of the following 19 hours:

EQS 201	Animal Science	(3 hours)
EQS 232	Equine Management	(3 hours)
EQS 331	Equine Disease Management	(3 hours)
EQS 333	Animal Nutrition	(3 hours)
EQS 431	Theories and Methods of Contemporary Natural Horsemanship	(3 hours)
EQS 432	Principles of Riding Instruction	(1 hour)
EQS	Riding Classes	(3 hours)

**Equine Facilitated Mental Health Emphasis:** A student interested in pursuing an Emphasis in Equine Therapy may do so as part of a Bachelor of Science degree in Psychology (B.S.) or, when available, as part of the Bachelor of Social Work (B.S.W.) degree program. Students wishing to become a Professional Association of Therapeutic Horsemanship International (PATH – previously NARHA) Registered Instructor will have the opportunity to perform volunteer work and to complete a Therapeutic Horsemanship Internship at a PATH Premier Accredited Center in the Birmingham or Montgomery area. For an emphasis in Equine Therapy, in addition to the core requirements of the student's major field of study, the following academic course work is recommended:

BIO 205	Human Anatomy	(4 hours)
HPE 214	First Aid & CPR	(2 hours)
EQS 232	Equine Management	(3 hours)
EQS 311	Animal Partnership	(3 hours)
EQS 431	Theories and Methods of Contemporary Natural Horsemanship	(3 hours)
EQS 432	Principles of Riding Instruction	(1 hour)
PSY 204	Human Growth & Development	(3 hours)
PSY 402	Exceptional Children	(3 hours)

## **Course Descriptions**

**EQS 109                    BEGINNING RIDING -- HUNT OR WESTERN SEAT I:** One hour

For those with little or no experience in hunt or western equitation. Course includes instruction in conformation, handling, grooming, tacking and the development of basic riding skills at the walk, jog and trot emphasizing rider control and safety. Fee Required.

**EQS 110                    BEGINNING RIDING -- HUNT OR WESTERN SEAT II:** One hour

A continuation of EQS 109 with emphasis on developing more advanced basic riding skills at the walk, jog and trot. Students will be taught to do simple figures such as circles, figure eights and serpentines. Students will concentrate on accomplishing the posting trot with correct diagonals. Fee Required.

**EQS 201                    ANIMAL SCIENCE:** Three hours

Students will study the importance of livestock to agriculture and to the health and nutrition of a modern society. Livestock terminology, selection, reproduction, nutrition, management, marketing, and species, characteristics of beef and dairy cattle, swine, sheep, and horses will be reviewed and discussed. Fee Required.

**EQS 209                    INTERMEDIATE RIDING -- HUNT OR WESTERN SEAT I:**  
One hour

The student will review schooling procedures learned at the beginning level. Students will review proper seat and styles of riding. Students at this level should be able to execute the posting trot on the correct diagonal. Students will be asked to perform upward and downward transitions. They will be introduced to the canter or lope. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the Instructor

**EQS 210                    INTERMEDIATE RIDING -- HUNT OR WESTERN SEAT II:**

One hour

A continuation of EQS 209 with emphasis on developing more advanced intermediate riding skills. Students will be asked to perform in the correct position at the walk, trot, and canter. Once the correct position is obtained, students will be introduced to ground poles and then progress to simple jumps or simple riding patterns. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the Instructor

**EQS 232                    EQUINE MANAGEMENT:** Three hours

A general study of the design and management of land and buildings, stable responsibilities, equine taxes and laws, equine marketing and record keeping. Topics also include an introduction to the equine industry, various breeds, conformation, selection, care and management, soundness, health, and prevention of and control of major diseases, development of herd health programs, feeding, farrier observation, restraints, general vaccinations and overall managerial duties. Fee Required.

**EQS 242H & 242W                    IHSA TEAM:** One hour

Students will focus on development of basic and applied principles and skill utilized in intercollegiate competition. The main focus will be on executing quiet hands and a confident seat. Students may choose either the hunt or western discipline but must be enrolled in classes in their discipline for IHSA competition. Students could work on reining or jumping patterns depending on the discipline. Emphasis will be placed on working with particular horses and preparing both horse and rider for show competition. Fee Required.

Prerequisite: Membership in good standing in Judson's IHSA Team.

**EQS 301                    PRINCIPLES OF THERAPEUTIC HORSEMANSHIP**

**INSTRUCTION:** Three hours

Students enrolled in this course will be introduced to theories and methods related to therapeutic riding. Students will use a number of resources during this course: text, discussion, PATH Intl. (Professional Association of Therapeutic Horsemanship, International)(formerly known as NARHA (North American Riding for Handicapped Association) manuals as well as learn to develop and utilize lesson plans suitable for PATH programs. Students will be introduced to various mounts and dismounts as well as correct supportive aids and hand holds for assisting riders with disabilities. Students will become PATH members and must take and pass both PATH examinations required to receive their Instructor in Training letter. Fee Required.

**EQS 309                    ADVANCED RIDING -- HUNT OR WESTERN SEAT I:** One hour

The student will review schooling procedures learned at the intermediate level. Students will be taught to complete complicated flat patterns in collected and extended gaits. Once simple jumps have been mastered, simple jump courses will be introduced. Western riders will be taught to complete reining patterns. Finer points required for show ring success will be introduced. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the instructor

**EQS 310                    ADVANCED RIDING -- HUNT OR WESTERN SEAT II:** One hour

A continuation of EQS 309 with emphasis on the development of more advanced riding skills. Students will be asked to perform complicated flat patterns in all three different gaits with proper transitions and execution of collected and extended gaits. Once simple jump courses have been mastered, complicated jump courses will be introduced. Western students will be taught to complete reining patterns. Students will practice finer points necessary for upper-level show ring success. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the instructor

**EQS 311                    ANIMAL PARTNERSHIP:** Three hours

This course will give attention to understanding animal partnership while incorporating this partnership into the human health care and educational

setting. Students will learn through each process that will be involved in the course – including selecting horses used for visitation, preparing horses for visitation, moving horses to nursing homes, and handling horses and residents while at nursing homes. Emphasis will be placed on safety during every aspect of the course. Students will engage in textbook learning, group discussion and participation, theory and lecture, a class journal and final presentation project. Fee Required.

**EQS 331 EQUINE DISEASE MANAGEMENT:** Three hours

The student will examine the state of normal health, preventative health, and the various disease conditions of the horse (and often other species). The course will be organized by systems and the student will be exposed to normal and abnormal function of the Respiratory, Nervous, Musculoskeletal, Dermatologic, and other equine organs systems. Preventative health protocol will also be included. Fee Required. (Cross-listed with BIO 331)

**EQS 333 ANIMAL NUTRITION:** Three hours

Basic and applied farm animal nutritional science; including comparative anatomies of different digestive systems, nutrient requirements, feedstuff types/sources/selection, principles of formulation and practical feeding programs. Judson owned horses may be used for further course expansion and observation. Fee Required. (Cross-listed with BIO 333)

**EQS 351 EQUINE ANATOMY AND PHYSIOLOGY:** Three hours

A study of the structure and function of the horse. Topics will include cell structure, anatomy and physiology of major systems of the horse, as well as the function of sensory organs as they relate to horse behavior. Emphasis will be placed on skeletal, muscular, nervous and endocrine systems, though other systems will also be studied. Specialized terminology as it relates to injury and disease will also be discussed. (Lec.2, Lab.2).

**EQS 400 EQUINE CAPSTONE SEMINAR:** One hour

Students will have the opportunity to read, evaluate, and integrate scientific information related to horses from the major scientific disciplines including genetics, reproduction, nutrition, and disease. Students will discuss scientific concepts and how they impact equine care and management. Students will choose a topic which must be approved for

their paper and do a visual presentation on their chosen area of interest.  
Fee Required.

Prerequisite: Senior Standing or Permission of Instructor

**EQS 401                    ADVANCED THERAPEUTIC HORSEMANSHIP**

**INSTRUCTION:** Three hours

Students enrolled in this course will study advanced methods necessary for therapeutic riding. Students will use a number of resources during this course: text, discussion, and PATH's (Professional Association of Therapeutic Horsemanship, International) manuals. Students will review mounts, dismounts as well as correct supportive aids and hand holds for assisting riders with disabilities. Additionally, students will meet other students seeking PATH certification and will be involved in role-playing, discussions and demonstrations. Students will gain additional mentor hours required to test for PATH Riding Instructor Level I Certification. Fee Required.

Prerequisite: EQS 301 or receipt of PATH Intl. Instructor in Training Letter

**EQS 402                    SMALL BUSINESS MANAGEMENT (CT):** Three hours

Application and interpretation of business management concepts and techniques in the formation and operation of small business enterprises. Fee Required.

Prerequisite: BUS 101 and Junior/Senior standing or consent of instructor (Cross-listed with BUS 402)

**EQS 409                    PROFESSIONAL RIDING I:** One hour

A continuation of EQS 310. Students may choose either the hunt or western seat discipline. This course involves more advanced work over flat or jumping courses. Students will work on show ring style and perfecting their skills and abilities. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the instructor

**EQS 410                    PROFESSIONAL RIDING II:** One hour

A continuation of EQS 409 with a concentration on the horse and re-schooling problem areas. Students may choose either the hunt or western seat discipline. The student will focus on accomplishing more advanced transitions, a more balanced horse and achieving more impulsion from the horse. Students at this level may be eligible to compete in the IHSA. Fee Required.

Prerequisite: Consent of the instructor

**EQS 411            SPECIAL STUDIES:** Three hours

A course for upperclassmen seeking to complete requirements in their major or minor disciplines. Subjects will be taught that do not appear in the College catalog but are of value to a student in her career objectives and/or graduate studies. Fee Required.

Prerequisite: Approval by the Department Head

**EQS 414            HORSE SHOW MANAGEMENT:** One hour

Students will learn and examine the operation of various shows, events and competitions for managers and riders. This course will include the design and operation of show courses and patterns. Students will review state and national rulebooks. Students will assist with organizing, scheduling and planning college sponsored events. Fee Required.

Prerequisite: Consent of the instructor

**EQS 431            METHODS OF CONTEMPORARY  
NATURAL HORSEMANSHIP:** Three hours

The study of theories and methods of contemporary natural horsemanship. Students will develop skills to train horses and prepare horses for exhibition and shows. Fee Required.

Prerequisite: Consent of the instructor

**EQS 432            PRINCIPLES OF RIDING INSTRUCTION:** One hour

Principles and practices of instructing students on horseback, safety for horse and rider, lesson plans and class management, evaluation of riders, and potentially teaching riders with special needs. Fee Required

Prerequisite: At least one hour of riding in EQS courses

**EQS 441            SPECIAL STUDIES:** Three hours

A course for upperclassmen seeking to complete requirements in their major or minor disciplines. Subjects will be taught that do not appear in the College catalog but are of value to a student in her career objectives and/or graduate studies. Fee Required.

Prerequisite: Approval by the Department Head

**EQS 442            SPECIAL STUDIES:** Three hours

A course for upperclassmen seeking to complete requirements in their major or minor disciplines. Subjects will be taught that do not appear in



the College catalog but are of value to a student in her career objectives and/or graduate studies. Fee Required.

Prerequisite: Approval by the Department Head

**EQS 443                    SPECIAL STUDIES:** Three hours

A course for upperclassmen seeking to complete requirements in their major or minor disciplines. Subjects will be taught that do not appear in the College catalog but are of value to a student in her career objectives and/or graduate studies. Fee Required.

Prerequisite: Approval by the Department Head

**EQS 449, 450            INDEPENDENT STUDY:** Three hours per course Tutorial courses designed to meet particular needs of the student. Fee Required.

Prerequisite: Approval of the Department Head and Academic Dean

**EQS 471                    INTERNSHIP:** Three hours

This course provides an opportunity for further study in the area of equine science through participation as an intern within the equine industry. The student will be exposed to and participate in professional activities. The College's internship guidelines and procedures will be followed. Fee Required.

Prerequisite: EQS 400, Approval of Department Head and Academic Dean