

# EQUINE SCIENCE & MANAGEMENT, A.A.S.

## Major Code: 0687

The strengths of the Equine Science and Management program are mainly twofold: first in the range of courses, which offer practical experience in handling horses. The program provides the student with the opportunity to concentrate on breeding, training, nutrition, and management specifically with horses, rather than with a generalized group of livestock. The second strength of the program is the quality of the faculty, staff and facilities available to the student. The college has two 100-foot by 200-foot indoor arenas, an 80-foot by 264-foot indoor riding arena, two 100-foot by 200-foot outdoor arenas, a half-mile racing track, three horse barns, a 34,000 square foot breeding and training facility, two hot walkers, Eurociser, paddocks, and all of the associated equipment and supplies necessary for a suitable educational experience. Additionally, there are more than 250 horses on site.

The SUNY Morrisville Equine Rehabilitation Center (SUNY MorrisvilleERC) facility includes a 22,000 square foot rehabilitation center building with classroom and administrative offices, a large rehabilitation treatment area, and ten stalls. A 31-stall barn for Equine Rehab over-flow, the Draft and Driving Horse Program, and a 140 by 300 foot indoor riding arena are also located at this facility. Therapeutic modalities available at the Equine Rehabilitation Center include aquatic therapies (underwater treadmill, cold salt water spa therapy, indoor swimming pool), therapeutic ultrasound, laser therapy (Class IIIB), cold compression therapy, solariums, and therapeutic exercises.

SUNY Morrisville employs 14 full-time faculty and staff, with a wide range of professional experience, in the Equine Science program area. The curriculum provides for the development of skills including care and training of horses, riding, driving, breeding and business and stable management. Students who major in Equine Science have varied objectives. Many intend to pursue a career in some aspect of the horse industry, while others may take technical courses from other areas of study to expand their employment base.

The career option prepares students to directly enter the industry upon graduation or to continue their equine education in one of the options in the bachelor of technology in Equine Science. The general option enables students to experience the horse industry while preparing for an allied field of employment. Both options are very flexible and can be developed based on individual interests and goals.

## Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate safe procedures, sound judgment and critical thinking skills in human and horse interactions when handling on the ground, astride or driving.
- Develop and/or recognize proper body position and effective use of seat, leg, hands and/or voice aids for ground-handling, riding or driving.
- Conduct the necessary research, analysis, evaluation, and critical thinking skills required of equine management and demonstrate the ability to develop a well organized approach to address common problems related to equine training and management.
- Demonstrate an understanding of equine behavior and how it relates to developing trained responses.

- Understand the importance of providing a balanced ration and be able to apply principles of nutrition to meet the needs of horses that is commensurate with varied uses and workloads.
- Understand the principles and techniques of modern equine reproduction and how utilization of sound breeding management practices can improve breeding efficiency.
- Utilize a systematic method of evaluating conformation and observing performance to accurately gauge individual improvement and to make qualified comparisons between horses.
- Develop and implement health management practices and skills to recognize signs of lameness and a fundamental understanding of treatment therapies.
- Develop a positive, confident outlook and a responsible work ethic that is likely to attract success as an equine professional.
- Develop sound ethical principles and judgment when dealing with employers, employees, and clients.

## Curriculum Requirements

A minimum of 64 credits is required for degree completion.

### General Option

Code	Title	Credits
<b>Major Field Requirements</b>		
AGBS 100	Agricultural Economics	3
AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
or ENSC 101	Agricultural Science	
ESCI 110	Equine Anatomy & Physiology	3
ESCI 130	Equine & Stable Management	3
ESCI 140	Equine Judging	2
ESCI 150	Farm Practicum I Equine	2
ESCI 151	Farm Practicum II (Equine)	2
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting And Marketing-Equine	1
ESCI 305	Equine Reproduction/Mgt	3
ESCI 312	Equine Health & Lameness	3
Computer Literacy Requirement		2-3
Select one of the following options:		
Option 1:		
CITA 101	Principles Computer Apps	
Option 2:		
OFFT 100	Introduction to MS Word	
OFFT 100	Introduction to MS Word	
or OFFT 109	Introduction to MS PowerPoint	
General Electives as advised		17
<b>SUNY General Education Requirements</b>		
SUNY General Education Communication Written and Oral as advised		3-6
SUNY General Education Mathematics as advised		3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Additional SUNY General Education credits as advised		3
<b>Total Credits</b>		<b>63-67</b>

**Career Option**

Code	Title	Credits
<b>Major Field Requirements</b>		
AGBS 100	Agricultural Economics	3
AGBS 240	Farm Management and Finance	4
AGRO 110	Soil Science	3
or ENSC 101	Agricultural Science	
ESCI 110	Equine Anatomy & Physiology	3
ESCI 130	Equine & Stable Management	3
ESCI 140	Equine Judging	2
ESCI 150	Farm Practicum I Equine	2
ESCI 151	Farm Practicum II (Equine)	2
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting And Marketing-Equine	1
ESCI 305	Equine Reproduction/Mgt	3
ESCI 312	Equine Health & Lameness	3
Select 17 credits of the following to replace general elective credits:		17
ERID 102	Intermediate Equitation	
or ERID 104	Advanced Equitation	
ERID 109	Intermediate Equitation Hunt Seat	
or ERID 110	Advanced Equitation Hunt Seat	
ERID 103	Inter. Western Equitation II	
or ERID 105	Adv Western Equitation II	
ERID 111	Intermediate Hunt Seat	
or ERID 112	Advanced Hunt Seat	
ERID 200	Western Riding	
ERID 250	Breaking And Training	
or ERID 240	Intro Train Hunters & Jumpers	
ERID 210	English Dressage	
or ERID 220	Western Dressage	
Select one of the following:		
ESCI 170	Draft Horse Management	
ESCI 225	Equine Artificial Insemination	
ERID 255	Intermed Breaking & Training	
ERID 260	Inter Training Hunters Jumpers	
Computer Literacy Requirement		2-3
Select one of the following options:		
Option 1:		
CITA 101	Principles Computer Apps	
Option 2:		
OFFT 110	Introduction to MS Excel	
OFFT 100	Introduction to MS Word	
or OFFT 109	Introduction to MS PowerPoint	
<b>SUNY General Education Requirements</b>		
SUNY General Education Communication Written and Oral as advised		3-6
SUNY General Education Mathematics as advised		3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
SUNY General Education as advised		3
<b>Total Credits</b>		<b>63-67</b>

**Suggested Course Sequence  
General Option**

Course	Title	Credits
<b>Year 1</b>		
<b>Fall</b>		
ESCI 130	Equine & Stable Management	3
ESCI 150	Farm Practicum I Equine	2
AGBS 100	Agricultural Economics	3
AGRO 110	Soil Science	3
or ENSC 101	or Agricultural Science	
SUNY General Education Communication Written and Oral as advised		3
General Electives as advised		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
ESCI 110	Equine Anatomy & Physiology	3
ESCI 151	Farm Practicum II (Equine)	2
ESCI 140	Equine Judging	2
SUNY General Education as advised		3
SUNY General Education Mathematics as advised		3
General Electives as advised		2
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
AGBS 240	Farm Management and Finance	4
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting And Marketing-Equine	1
CITA or OFFT Computer Literacy Credits as advised		2-3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
General Electives as advised		4
<b>Credits</b>		<b>17-18</b>
<b>Spring</b>		
ESCI 305	Equine Reproduction/Mgt	3
ESCI 312	Equine Health & Lameness	3
SUNY General Education as advised		3
General Electives as advised		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>61-62</b>

**Career Option**

Course	Title	Credits
<b>Year 1</b>		
<b>Fall</b>		
ESCI 130	Equine & Stable Management	3
ESCI 150	Farm Practicum I Equine	2
AGBS 100	Agricultural Economics	3
AGRO 110	Soil Science	3
or ENSC 101	or Agricultural Science	
SUNY General Education Communication Written and Oral as advised		3
ERID 102	Intermediate Equitation	2
or ERID 104	or Advanced Equitation	
ERID 109	Intermediate Equitation Hunt Seat	2
or ERID 110	or Advanced Equitation Hunt Seat	
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
ESCI 110	Equine Anatomy & Physiology	3
ESCI 151	Farm Practicum II (Equine)	2
ESCI 140	Equine Judging	2
SUNY General Education as advised		3
SUNY General Education Mathematics as advised		3
ERID 103	Inter. Western Equitation II	1
or ERID 105	or Adv Western Equitation II	

ERID 111 or ERID 112	Intermediate Hunt Seat or Advanced Hunt Seat	1
ESCI 170	Draft Horse Management	2
<b>Credits</b>		<b>17</b>
<b>Year 2</b>		
<b>Fall</b>		
AGBS 240	Farm Management and Finance	4
ESCI 210	Equine Nutrition	3
ESCI 235	Fitting And Marketing-Equine	1
CITA or OFFT Computer Literacy Credits as advised		2-3
SUNY General Education as advised		3
ERID 200	Western Riding	1
ERID 240 or ERID 250	Intro Train Hunters & Jumpers or Breaking And Training	3-4
<b>Credits</b>		<b>17-19</b>
<b>Spring</b>		
ESCI 305	Equine Reproduction/Mgt	3
ESCI 312	Equine Health & Lameness	3
SUNY General Education as advised		3
ERID 210 or ERID 220	English Dressage or Western Dressage	2
Select one of the following:		1-4
ERID 255	Intermed Breaking & Training	
ERID 260	Inter Training Hunters Jumpers	
ESCI 225	Equine Artificial Insemination	
<b>Credits</b>		<b>12-15</b>
<b>Total Credits</b>		<b>64-69</b>