Curriculum Standard for Animal Systems: Equine Science

Career Cluster: Agriculture, Food, and Natural Resources **

Cluster Description: The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Pathway: Animal Systems	**Effective Term:** Fall 2019 (2019*03)

Program Majors Under Pathway			
Program Major / Classification of Instruction Programs (CIP) Code		**Credential Level(s) Offered**	**Program Major Code**
Equine Business	CIP Code 01.0307	AAS/Diploma/Certificate	A15270
Equine Training	CIP Code 01.0507	AAS/Diploma/Certificate	A15290

Pathway Description:

This curriculum is designed to prepare students for positions within the horse industry. The curriculum is management oriented, preparing graduates for the widest range of available equine jobs; areas of specialization may be pursued during the internship.

Course work includes farm management, breeding, nutrition, selection/judging, and health. Training, teaching, and riding are also included. Students are assigned a horse and practice day-to-day management at an equine facility.

Graduates should qualify for jobs with many different types of equine operations: grooms to assistant managers; private to recreational and racing barns; breed to discipline-oriented farms.

*Program Major Description: Choose one of the following 4ᵗʰ paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each **Program Major:***

Equine Business: A program that prepares individuals to manage the selection, breeding, care, and maintenance of work, athletic, show and/or therapeutic horses; and to manage horse farms, stables, tracks, or equine assisted-activity therapeutic centers, and related equipment and operations. Potential course work includes instruction in applicable principles of animal science, care, and health; stable and track management; design and operation of facilities and equipment; and related issues such as regulations, business management; and logistics.

Equine Training: A program that focuses on the horse, horsemanship, and related subjects and prepares individuals to care for horses and horse equipment; ride and drive horses for leisure, sport, show, and professional purposes; and manage the training of horses and riders. Potential course work includes instruction in horse breeding, nutrition, health, and safety; history of the horse and horsemanship; horse development and training; riding and equestrian technique; stable, paddock, and track management; and equipment maintenance and repair.

I. General Education Academic Core [*Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10*]: *Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.*			

Animal Systems: Equine Science			
Recommended General Education Academic Core	**AAS**	**Diploma**	**Certificate**
Minimum General Education Hours Required:	**15 SHC**	**6 SHC**	**0 SHC**

Courses listed below are recommended general education courses for this curriculum standard. Colleges may choose to include additional or alternative general education courses to meet local curriculum needs.*Recommended certificate and diploma level curriculum courses. These courses may <u>not</u> be included in associate degree programs.

Communication:

				AAS	Diploma	Certificate
*COM	101	Workplace Communication	3 SHC			
COM	110	Introduction to Communication	3 SHC	**6 SHC**	**3-6 SHC**	**Optional**
COM	120	Intro Interpersonal Com	3 SHC			
COM	231	Public Speaking	3 SHC			
*ENG	101	Applied Communications I	3 SHC			
*ENG	102	Applied Communications II	3 SHC			
ENG	110	Freshman Composition	3 SHC			
ENG	111	Expository Writing	3 SHC			
ENG	112	Argument-Based Research	3 SHC			
ENG	114	Prof Research & Reporting	3 SHC			
ENG	115	Oral Communication	3 SHC			
ENG	116	Technical Report Writing	3 SHC			

Humanities/Fine Arts:

				AAS	Diploma	Certificate
*HUM	101	Values in the Workplace	2 SHC			
HUM	110	Technology and Society	3 SHC			
HUM	115	Critical Thinking	3 SHC	**3 SHC**	**0-3 SHC**	**Optional**
HUM	230	Leadership Development	3 SHC			
PHI	230	Introduction to Logic	3 SHC			
PHI	240	Introduction to Ethics	3 SHC			

Social /Behavioral Sciences:

				AAS	Diploma	Certificate
ECO	151	Survey of Economics	3 SHC			
ECO	251	Prin of Microeconomics	3 SHC			
GEO	110	Introduction to Geography	3 SHC	**3 SHC**	**0-3 SHC**	**Optional**
GEO	111	World Regional Geography	3 SHC			
*PSY	101	Applied Psychology	3 SHC			
*PSY	102	Human Relations	2 SHC			
PSY	118	Interpersonal Psychology	3 SHC			
PSY	135	Group Processes	3 SHC			
PSY	150	General Psychology	3 SHC			
*SOC	105	Social Relationships	3 SHC			
SOC	210	Introduction to Sociology	3 SHC			
SOC	215	Group Processes	3 SHC			

Natural Sciences/Mathematics:

				AAS	Diploma	Certificate
BIO	140	Environmental Biology	3 SHC			
BIO	160	Introductory Life Science	3 SHC			
MAT	110	Math Measurement & Literacy	3 SHC	**3 SHC**	**0-3 SHC**	**Optional**
MAT	121	Algebra/Trigonometry I	3 SHC			
MAT	143	Quantitative Literacy	3 SHC			
MAT	152	Statistical Methods I	4 SHC			
MAT	171	Precalculus Algebra	4 SHC			
PHY	110	Conceptual Physics	3 SHC			
PHY	121	Applied Physics I	4 SHC			

II. Major Hours. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. Below is a description of each section under Major Hours.

  A. Technical Core. The technical core is comprised of specific courses which are required for all Program Majors under this Curriculum Standard. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the curriculum core courses or core subject area of the AAS program.

  B. Program Major(s). The Program Major must include a minimum of 12 semester hours credit from required subjects and/or courses. The Program Major is in addition to the technical core.

  C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from each prefix listed, with the exception of prefixes listed in the core or other Major Areas.

Animal Systems: Equine Science	AAS	Diploma	Certificate
Minimum Major Hours Required:	**49 SHC**	**30 SHC**	**12 SHC**
A. Technical Core:	**34 SHC**	**12 SHC**	

*Courses required for the Equine Diploma are designated with ***

*	EQU 111	Horse Science I	5 SHC
*	EQU 112	Horse Science II	5 SHC
	EQU 120	Horsemanship I	3 SHC
*	EQU 150	Equine Nutrition	2 SHC
	EQU 211	Horse Farm Management I	6 SHC
	EQU 270	Equine Business Law	1 SHC

B. Program Major(s):

Equine Business

MKT 120 Principles of Marketing 3 SHC

Choose one:
AGR 212 Farm Business Management 3 SHC *or*
BUS 230 Small Business Management 3 SHC

Choose one:
BUS 135 Principles of Supervision 3 SHC *or*
BUS 137 Principles of Management 3 SHC

Select additional courses from the AGR, ANS, BUS, EQU, or MKT prefix for a minimum of 12 SHC for the Equine Business AAS program.

Equine Training

EQU 121 Horsemanship II 2 SHC
EQU 220 Horse Training I 2 SHC
EQU 221 Horse Training II 2 SHC
EQU 260 Basic Colt Training 2 SHC

Select additional courses from the EQU prefix for a minimum of 12 SHC for the Equine Training AAS program.

C.	**Other Major Hours.**		

C. **Other Major Hours.**

To be selected from the following prefixes:

AGR, ANS, BUS, CIS, CSC, EQU, ETR, MKT, and WBL

Up to two semester hour credits may be selected from ACA.

Three semester hour credits may be selected from PTE.

Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS, and SPA.

III. Other Required Hours *A college may include courses to meet graduation or local employer requirements in a certificate (0-1 SHC), diploma (0-4 SHC), or an associate in applied science (0-7 SHC) program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.*

IV. Employability Competencies Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- **A.** **Interpersonal Skills and Teamwork** – The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks.
- **B.** **Communication** – The ability to effectively exchange ideas and information with others through oral, written, or visual means.
- **C.** **Integrity and Professionalism –** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor.
- **D.** **Problem-solving** – The ability to identify problems and potential causes while developing and implementing practical action plans for solutions.
- **E.** **Initiative and Dependability** – Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability.
- **F.** **Information processing** – The ability to acquire, evaluate, organize, manage, and interpret information.
- **G.** **Adaptability and Lifelong Learning –** The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices.
- **H.** **Entrepreneurship –** The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner.

*An **Employability Skills Resource Toolkit** has been developed by NC-NET for the competencies listed above. Additional information is located at: http://www.nc-net.info/employability.php*

**The *North Carolina Career Clusters Guide* was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at: http://www.nc-net.info/NC_career_clusters_guide.php or http://www.careertech.org.*

Summary of Required Semester Hour Credits (SHC) for each credential:

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	**64-76**	**36-48**	**12-18**