



### **Equine Science Certificate**

The certificate program offered by the Modesto Junior College Agriculture and Environmental Science Department has been in the process of development for many years. The program is written for students pursuing careers in the equine industry. This program is designed to give students the hands on experience as well as educational background that they will need to be successful in the equine industry. As this industry changes and evolves, the students that graduate will have the same flexibility. By instilling a solid foundation of knowledge and work place skills, students will have the ability to perform in under a variety of scenarios and job place changes.

The equine industry has seen many changes over the past few years. The industry has become much more specialized in its career offerings. No longer do graduates go back to the farm and simply raise their own horses. Graduates now obtain positions in nutrition development, reproduction, veterinary care, and barn management as a career. This certificate program prepares students for the wide breadth of skills needed for the equine industry. The classes that are required for the program cover the bases of knowledge that will be essential to our graduates upon entering the work force.



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Criteria 2: Catalog Descriptions

### **Equine Science Certificate**

This program will develop entry-level jobs skills in equine husbandry and housing. Training and skill set development include; practical handling and safety skills, equipment handling and care, equine anatomy and nutrition, as well as breeding and reproduction skills. The program is designed for students that wish to develop practical skills in the area of equine science.



**Program Requirements – Equine Science Certificate**

**Equine Science Certificate**

**Certificate of Achievement: Equine Science**

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**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this program, the student should be prepared to:

1. design and implement a complete nutritional program for equines in various life stages.
2. demonstrate advanced equine handling skills.
3. describe current trends in equine reproduction, mare and foal care.
4. demonstrate competent riding skills in various situations using various disciplines.
5. using current equine industry standards, demonstrate management skills in the operation of an equine facility.
6. describe ideal equine conformation and subsequent ailments associated with deviations from such conformation.

**PROGRAM REQUIREMENTS**

To earn a Certificate of Achievement in Equine Science, the student must complete a minimum of 16 units of course work. Each course must be completed with a "C" or better.

<b>Required Courses: Complete 14 units</b>		<b>Units</b>
ANSC 207	[ 1 ] Equine Science	3
ANSC 209	[ 2 ] Equine Breeding & Reproduction	3
ANSC 243	[ 2 ] Equine Fitting and Showing	2
ANSC 258	[ 1 ] Beginning Horsemanship	3
ANSC 265	[ 1 ] Introduction to Colt Training	3
 <b>Elective Courses - Choose one course</b>		 <b>Units</b>
ANSC 200	[ 1 ] Introduction to Animal Science	3
	<b>or</b>	
ANSC 259	[ 2 ] Pack Animal - Walk/Ride	2
	<b>or</b>	
ANSC 260	[ 2 ] Advanced Horsemanship	3
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Total Units		16 - 17

Certificate of Achievement: Equine Science				
Requirement	Dept. Name	Name	Units	Sequence
Required Core: Complete 14 units	ANSC 207	Equine Science	3	Yr 1 Fall
	ANSC 209	Equine Breeding & Reproduction	3	Yr 1 Spring
	ANSC 243	Equine Fitting & Showing	2	Yr 1 Fall
	ANSC 258	Beginning Horsemanship	3	Yr 2 Fall
	ANSC 265	Introduction to Colt Training	3	Yr 2 Fall
Elective Courses: Choose (1) course	ANSC 200	Introduction to Animal Science	3	Yr 1, Spring
	ANSC 259	Pack Animal - Walk and Ride	3	Yr 2 Spring
	ANSC 260	Advanced Horsemanship	3	Yr 2 Spring

Required Core Total: 14 units

TOTAL UNITS: 16-17

Proposed Sequence:

Year 1, Fall = 5 units

Year 1, Spring = 6 units

Year 2, Fall = 6 units

Year 2, Spring = 6 units

TOTAL UNITS: 16-17 units



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### Criteria 4: Master Planning

Equine science courses have always been a part of the Animal Science curriculum program at Modesto Junior College. In the beginning, they served the community on a community service level. The typical student was a community member looking to improve their knowledge for the benefit of their own horse ownership. In the last several years we have seen a shift in the students and now the majority are mainstream agriculture students looking to complete their associate's degree and transfer onto to a university. This certificate will complement those students perfectly.

As a major agriculture industry, equine studies in general are fulfilling a need in the agriculture job market. The purpose of developing a certificate in equine science is to not only expand our offerings in this area but also give the students a tangible recognition of their completion of their equine courses within the program. The community has shown overwhelming support for the development and implementation of this certificate. As demonstrated recently by the generous donations of over \$25,000 in equipment and monetary funds that were received after the program was vandalized.

The objectives of this certificate are to improve the skills and knowledge of our graduates in areas of equine science that will directly benefit not only the student but the industry they are entering. By encouraging students to develop the foundation of classroom knowledge along with the hands-on experience of our laboratory settings, this certificate will graduate well qualified job applicants into the equine industry.



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Criteria 5: Enrollment and Completer Projections

It's difficult to derive a solid number of completers for this program because it is believed that enrollment will significantly increase with the implementation of the certificate. Currently there are roughly 30-50 students enrolled in any one of the Equine Science courses at any time. The majority of these students are majoring in Animal Science, or Agriculture Business as their AS degree concentrations. In addition to these students, the individuals who currently take Equine classes either as electives for their degree or for skill development will also qualify as a certificate completer increasing the number by 10 or more students. Currently it looks as though we could have 25 – 35 completers per year.

Certificate of Achievement: Equine Science	Dept. Name	Course Title	Year 1		Year 2	
			Annual Sections	Annual Enrollment	Annual Sections	Annual Enrollment
	ANSC 207	Equine Science	1	30-40	1	30-40
	ANSC 209	Equine Breeding & Reproduction	1	25-30	1	25-30
	ANSC 243	Equine Fitting & Showing	1(2008)	25-30	1(2009)	25-30
	ANSC 258	Beginning Horsemanship	1(2009)	20-25	1(2009)	20-25
	ANSC 265	Introduction to Colt Training	1	25-30	1	25-30
	ANSC 200	Introduction to Animal Science	4	40-50	4	40-50
	ANSC 259	Pack Animal - Walk and Ride	1(2009)	20-25	1(2009)	20-25
	ANSC 260	Advanced Horsemanship	1(2009)	20-25	1(2009)	20-25

Please note;

Several of our courses have not been offered in recent years due to budget restrictions. All of the courses however are updated and current in the Modesto Junior College course catalog. In addition, these courses are scheduled to be offered Summer, Fall and Spring of 2014-2015.



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Criteria 6: Place of Program in Curriculum/Similar Programs

- a) Do any active inventory records need to be made inactive or changed in connection with the approval of the proposed program?

No

- b) Does the program replace any existing program(s) on the college's inventory? Provide relevant details if this program is related to the termination or scaling down of another program(s).

No

- c) What related programs are offered by the college?

There are several programs that are related or intertwined with the proposed Equine Science Certificate. One of the largest programs would be the Animal Science Department in the Agriculture Division. This program is a degree program designed to help students achieve an associate's degree and also transfer on to a university. All of our certificate courses would act as electives to this degree.



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Item 7: Similar Programs at Other Colleges in Service Area

None of our immediate neighboring community colleges (Merced and Delta) have “Equine Science” certificate programs. Santa Rosa Junior College does offer an AS degree in Equine Science, but not a certificate. Because of this it generally takes the average student at least two years to finish the degree program at this institution. The program MJC is proposing is one that will allow students pursuing a degree to also gain a certificate in Equine Studies by taking courses that would meet both criteria for our certificate as well a variety of AS/AA degrees within our Agriculture Program. The student can then move onto a career if he/she chooses or continue on in their education.