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| For Academic Affairs and Research Use Only | |
| CIP Code: |  |
| Degree Code: |  |

**New Course Proposal Form**

**[ X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **[X ] New Course or []Experimental Course (1-time offering) (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Donald Kennedy 3/29/2018 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| J Kim Pittcock 3/29/2018 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Timothy Burcham 3/29/2018 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

1. Contact Person (Name, Email Address, Phone Number)

**William J. McGuire,** [wmcguire@astate.edu](mailto:wmcguire@astate.edu), **(870)972-2686**

2. Proposed Starting Term and Bulletin Year

**Spring 2019**

3. Proposed Course Prefix and Number (Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

**ANSC 4653**

4. Course Title – if title is more than 30 characters (including spaces), provide short title to be used on transcripts. Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis). Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

**Equine Reproduction and Management, short title Equine Repro and Mgmt.**

5. Brief course description (40 words or fewer) as it should appear in the bulletin.

**Concepts and practices in equine reproduction, including male and female reproductive anatomy, estrous cycles, sperm production, gestation, parturition, and breeding systems.**

6. Prerequisites and major restrictions. (Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes** Are there any prerequisites?
   1. If yes, which ones?

**ANSC 1613**

* 1. Why or why not?

**Insures basic understanding of animal husbandry**

1. No Is this course restricted to a specific major?
   1. If yes, which major? Enter text...

7. Course frequency(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.*

**Spring**

8. Will this course be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.

**Lecture and Lab**

9. What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

**Standard letter grade**

10. **Yes** Is this course dual listed (undergraduate/graduate)?

11. **No** Is this course cross listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross listed course.)*

**11.1** – If yes, please list the prefix and course number of cross listed course.

Enter text...

**11.2** – **Yes / No** Are these courses offered for equivalent credit?

Please explain. Enter text...

12. No Is this course in support of a new program?

a. If yes, what program?

Enter text...

13. No Does this course replace a course being deleted?

a. If yes, what course?

Enter text...

14. **No** Will this course be equivalent to a deleted course?

a. If yes, which course?

Enter text...

15. **Yes** Has it been confirmed that this course number is available for use?

*If no: Contact Registrar’s Office for assistance.*

16**. No** Does this course affect another program?

If yes, provide confirmation of acceptance/approval of changes from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

**Course Details**

17. Outline (The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Equine Reproduction and Management

Course Outline

Week One:   
                       Equine Reproduction: Terms and Facts  
                       Anatomy and Physiology of the Stallion  
  
 Week Two and Three:  
                       Reproductive Anatomy and Physiology of the Mare  
  
Week Four and Five:  
                        Manipulation of Estrus in the Mare  
  
Week Six:  
                        Broodmare Management  
  
Week Seven:  
                        Estrus Detection and Teasing

Week Eight and Nine:

Breeding systems: Live cover, AI, and Safety  
  
Week Ten:  
              Pregnancy Diagnosis and Management of the Pregnant Mare  
  
Week Eleven:  
              Fetal Development, Abortion, Induced Parturition and Dystocia in the Mare  
  
 Week Twelve:  
              Neonatal Management and Common Neonatal Diseases  
              Orphan Foal Management   
              Foal Management During the First Six Months  
  
Week Thirteen:  
              Weaning and Weanling Management  
  
Week Fourteen:  
              Breeding Records and Reports

18. Special features (e.g. labs, exhibits, site visitations, etc.)

Labs

19. Department staffing and classroom/lab resources

1. Will this require additional faculty, supplies, etc.?

**No**

20. **No** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Course Justification**

21. Justification for course being included in program. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

**Students will gain knowledge of the equine estrous cycle, breeding, gestation, and parturition. They will learn how to safely live cover breed mares, collect stallions for artificial insemination, and artificially inseminate a mare. These skills and knowledge will assist the student in finding employment in the equine industry**.

b. How does the course fit with the mission established by the department for the curriculum? If course is mandated by an accrediting or certifying agency, include the directive.

**It will help to prepare young men and women for entry and career advancement in the food, fiber and natural resources industry. Many good jobs exist in the equine industry that require knowledge of reproduction, breeding, foal and yearling management. Students will conduct problem-solving research related to equine production, natural resource management, and marketing and advertising with private and other public sector entities. The course will provide educational opportunities and experiences for transfer of knowledge in classrooms and adult continuing education, all within environmentally sound and sustainable systems.**

c. Student population served.

**Equine emphasis students, animal science students, and the general student population.**

d. Rationale for the level of the course (lower, upper, or graduate).

**A more in depth understanding of physiology and endocrinology is required for successful completion of this course than could be expected of lower grade level students**.

**Assessment**

**University Outcomes**

22. Please indicate the university-level student learning outcomes for which this new course will contribute. Check all that apply.

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| * 1. **[ ]** Global Awareness | * 1. **[ X]** Thinking Critically | * 1. **[ X]** Information Literacy |

**Relationship with Current Program-Level Assessment Process**

23. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

St**udents will demonstrate knowledge of fundamental concepts in animal science.**

24. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #23)** | **Students will demonstrate knowledge of fundamental concepts in animal science.** |
| Assessment Measure | **Laboratory demonstration of skills** |
| Assessment  Timetable | Spring, every two years |
| Who is responsible for assessing and reporting on the results? | Equine Instructor |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

25. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | The students will understand equine reproduction and breeding systems |
| Which learning activities are responsible for this outcome? | Recording the mares’ estrous cycles, breeding, and pregnancy determination. |
| Assessment Measure | Hands on laboratory demonstrations with rubric grading |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

**Animal Science (ANSC)**

**ANSC 1522 Beginning English Equitation** Introduction to English equitation and the care and management of riding horses. Fall.

**ANSC 1602. Equitation** Two hour laboratory course in the selection and care of tack, horsemanship, etiquette, grooming, and equitation. Fall, Spring.

**ANSC 1612. Intermediate Western Equitation** Refinement of experienced riders skill in the area of western riding. Includes retraining or conditioning older horses, and understanding equine behavior as it relates to riding and training. Four hours of lab per week. Prerequisite, ANSC 1602 or permission of instructor. Fall, Spring.

**ANSC 1613. Introduction to Animal Science** A study of animals that provide food, fiber, and companionship to mankind, including the history and scope of animal agriculture, products produced from animals, reproduction, breeding and genetics, nutrients and digestion, lactation, behavior, and an overview of production systems. Fall, Spring.

**ANSC 1621. Introduction to Animal Science Laboratory** Students will gain hands on work experience with managing livestock. Fall, Spring.420

*The bulletin can be accessed at http://www.astate.edu/a/registrar/students/*

**ANSC 1622. Intermediate Huntseat Equitation and Jumping** Refinement of the experienced riders skills in the area of huntseat riding and jumping. Includes flat work and jumping exercises to build skills and condition the horses and riders for jumping. Four hours of lab per week. Prerequisite, ANSC 1602 or permission of instructor. Fall, Spring.

**ANSC 2012. Stock Horse Equitation** Hands-on study of the basic maneuvers involved in training and showing the versatile Stock Horse. Prerequisites, ANSC 1602 or ANSC 1612. Spring.

**ANSC 2623. Equine Health and Management** Course covers aspects of equine health, diseases, soundness, first aid, preventative maintenance, and management of horses in domestic situations. Three hours of lecture per week. Fall.

**ANSC 3003. Companion Animal Nutrition** Fundamental concepts of nutrition applied to companion animals including dogs, cats, and other common pets. Prerequisite, ANSC 1613 or BIO 2013. Summer, even.

**ANSC 3013. Advanced Western Equitation** Advanced techniques and principles of horsemanship associated with Western riding. Daily riding to implement techniques and develop skills in a logical progression for both the rider’s ability and the horse’s training. Prerequisites, ANSC 1612 or ANSC 2012, and permission of instructor. Summer.

**ANSC 3203. Companion Animal Care and Management** Science and practice of raising and keeping small animals as pets or companion animals. Topics related to nutrition and feeding, training, reproduction, breeding, grooming, housing and equipment, preventative medicine, and common diseases will be covered. Prerequisites, ANSC 1613 or BIOL 1003 or BIO 2013. Fall, even.

**ANSC 3613. Nutritional Management of Animals** Principles of animal nutrition, composition of feedstuffs, diet formulation, and nutritional management of cattle, horses, sheep, swine, poultry, dogs and cats. Two hours lecture, two hours laboratory per week. Prerequisite, ANSC 1613. Fall.

**ANSC 3633. Veterinary Anatomy and Physiology** Structure and function of the body in farm animals. Includes lectures on cardiac, renal, respiratory and muscle physiology, neurology, histology, bone development and endocrine control of the above systems. Prerequisite, ANSC 1613. Fall.

**ANSC 3653. Meat Science and Processing** Study of meat science and meat processing. Properties of fresh and processed meats. Instruction in the preservation of meat and meat products, including hands on experience in processed meat manufacturing, curing, and barbecuing. Fall.

**ANSC 3663. Small Ruminant Production** Methods of management in producing sheep and goats. Lecture two hours, laboratory two hours per week. Prerequisite, ANSC 1613. Spring, even.

**ANSC 3703. Poultry Production** Management of laying and brooding flocks, raising of replacements, study of all economic factors relating to efficient production and marketing. Lecture two hours, laboratory two hours per week. Spring.

**ANSC 4613. Horse Production** Selection, breeding, feeding, management, marketing of horses, and equitation. Lecture two hours, laboratory two hours per week. Prerequisite, ANSC 1613. Spring.

**ANSC 4623. Beef Cattle Production** Management practices of commercial and purebred herds. Lecture two hours, laboratory two hours per week

**ANSC 4633. Diseases of Farm Animals** Prevention, treatment, and control of common diseases, including problems of hygiene and sanitation. Prerequisite, ANSC 3633. Summer, even.

***ANSC 4653.*** *Covers concepts and practices in equine reproduction, including male and female reproductive anatomy, estrous cycles, sperm production, gestation, parturition, and breeding systems. Prerequisite, ANSC 1613. Spring.*

**ANSC 4663. Principles of Breeding** Basic application of genetic principles to the improvement of farm animals. Fall.

**ANSC 4673. Digestive Physiology and Nutrition of Domestic Animals** The role of nutrients and physiological and metabolic mechanisms involved in nutrient utilization by domestic animals. Emphasis on food producing animals, horses, dogs, cats, and catfish. Prerequisite, ANSC 1613, and CHEM 1013 or CHEM 1043. Spring.