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

**New Course Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[X ] 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* 10/31/2018 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Steven Green 10/31/2018 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| *Timothy Burcham* 3/8/2019 **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 2020**

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 5653**

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.*

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 students 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 other interested agriculture students.**

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 would 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?

**Students will demonstrate depth in a concentration area to support their professional goals.**

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 depth in a concentration area to support their professional goals. |
| Assessment Measure | Successful development (Pass in a Pass/Fail class) of a work plan related to the student’s professional goals and interests with input and review by major advisor and instructor |
| Assessment  Timetable | Fall semesters of even years |
| Who is responsible for assessing and reporting on the results? | Instructor; review by CoAT Graduate Committee and CoAT Assessment Committee |

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| **Program-Level Outcome 2 (from question #23)** | Students will demonstrate both verbal and written communication skills. |
| Assessment Measure | Successful completion of written work plan with approval by major advisor and instructor; Successful (Pass) slideshow presentation of work plan or thesis to faculty and students in a seminar setting. |
| Assessment  Timetable | Spring semesters of even years |
| Who is responsible for assessing and reporting on the results? | Instructors; review by CoAT Graduate Committee and CoAT Assessment Committee |

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| **Program-Level Outcome 3 (from question #23)** | Students will develop advanced skills in critical thinking and analysis applied to solve relevant problems. |
| Assessment Measure | Successful completion of the Comprehensive/Final Defense Exam in front of graduate advisory committee |
| Assessment  Timetable | Spring semesters of odd years |
| Who is responsible for assessing and reporting on the results? | Major advisors; review by CoAT Graduate Committee and CoAT Assessment Committee |

*(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 (***a***)  *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 5633. Diseases of Farm Animals** The prevention, treatment, and control of common diseases, including problems of hygiene and sanitation. Prerequisite: ANSC 3633.

*ANSC 5653* **Equine Reproduction and Management** *Concepts and practices in equine reproduction, including male and female reproductive anatomy, estrous cycles, sperm production, gestation, parturition, and breeding systems.*

**ANSC 5663. Principles of Breeding** The basic principles underlying reproduction and the application of genetic principles to the improvement of farm animals with emphasis on selection, crossbreeding, linebreeding, and inbreeding.

**ANSC 5673. Digestive Physiology and Nutrition of Domestic Animals** A discussion of the role of nutrients and physiological and metabolic mechanisms involved in nutrient utilization by domestic animals. Emphasis will be placed on food-producing animals, horses, dogs, cats, and catfish. Prerequisite: ANSC 1613.

**ANSC 5683. Reproductive Physiology** A course that teaches the anatomy, physiology, endocrinology, and biochemistry of reproduction in farm animals. This course also introduces students to methods of manipulating reproduction within livestock systems. Management topics include artificial insemination, estrus synchronization, induction of parturition, embryo transfer and reproductive disease prevention.

**ANSC 5691. Laboratory for Advanced Animal Nutrition** This laboratory is designed to provide students with theories and skills associated with nutrition-related laboratory analyses.

**ANSC 5693. Integrated Poultry Management** Production principles and problem solving strategies used by vertically-integrated poultry companies. Prerequisite: ANSC 2703 or permission of professor.

**ANSC 5712. Advanced Animal Nutrition** Emphasis will be placed on computer-aided formulation of diets and supplements for domestic animals (livestock, poultry, pets, exotics and catfish). Class discussions will focus on industrial feed formulation problems, regulatory policies, and biotechnology in the feed industry. Prerequisite: ANSC 3613.

**ANSC 5733. Endocrinology of Farm Animals** A study of the endocrinology system and its role in lactation, reproduction, digestion and metabolism.

**ANSC 5743. Equine Nutrition** Principles of nutrition and their application to feeding horses will be taught. Digestive physiology, sources of nutrients, feeding and grazing programs for various classes of horses and interactions of nutrition, diseases, and environment will be discussed.

**ANSC 6003. Current Issues in Animal Agriculture** A discussion of current issues affecting production and human use of animal products for food, fiber, and medicine (D).

**ANSC 679V. Thesis**

**Agriculture (AGRI)**

**AGRI 5233. Experimental Agricultural Statistics** Fundamental concepts of experimental and statistical methods as applied to agricultural research.

**AGRI 5523. Applied Modern Biotechnology** An introduction to the principles and the applications of modern Biotechnology with emphasis on the applications of recombinant DNA technology to solve environmental and human health problems. The review of major biotechnology companies and bio-products is also included.