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

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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

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

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Donald Kennedy 9/20/2021 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| J Kim Pittcock 9/20/2021  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Mickey A. Latour 9/20/2021 **College Dean** | Alan Utter 10/11/2021  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Jerica Rich, jerich@astate.edu, 870-972-3392

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall 2022 – Bulletin 2022-23

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **ANSC** | **n/a** |
| **Number\*** | **4663** | **n/a** |
| **Title** | **Principles of Breeding** | **Animal Breeding and Genetics** |
| **Description\*\*** | **Basic application of genetic principles to improvement of farm animals** | **Basic application of genetic principles to the improvement of animals** |

***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? YES]**

(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?

AGRI 2213 or BIO 3013

* 1. Why or why not?

Students must have a fundamental understanding of genetics to be able to apply those to specific material taught in ANSC 4663 pertaining to breeding strategies and the resulting offspring.

1. **NO** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? NO]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Enter text...

1. **Proposed course type [Modification requested? NO]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Enter text...

1. **Proposed grade type [Modification requested? NO]**

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

Enter text...

1. **YES** Is this course dual-listed (undergraduate/graduate)?
2. **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.)*

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

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. **NO** Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. **NO** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? No]**

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

Enter text...

1. **Proposed special features** **[Modification requested? No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

Enter text...

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

Enter text...

1. **Yes / 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.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

Course name change to encompass the scope of the class and the content being taught. The addition of the AGRI 2213 or BIO 3013 is to ensure students have the foundational genetics knowledge necessary to be able to succeed in the class for discussions of breeding management in animals.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

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

Enter text...

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

Enter text...

c. Student population served.

Enter text...

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

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **No** Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. 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?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), 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 #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

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

**Course-Level Outcomes**

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

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| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(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. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*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.** |

### Major in Animal Science

Bachelor of Science in Agriculture Emphasis in Production and Management

A complete 8-semester degree plan is available at [https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 47) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| AGRI 1213, Making Connections in Agriculture | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 84)  **Students with this major must take the following:**  *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory* ***OR***  *CHEM 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Laboratory ECON 2313, Principles of Macroeconomics* ***OR***  *ECON 2333, Economic issues and Concepts*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **18** |
| **Major Requirements:** | **Sem. Hrs.** |
| AGRI 2213, Genetic Improvement of Plants and Animals **OR**  BIO 3013, Genetics | 3 |
| ANSC 1621, Introduction to Animal Science Laboratory | 1 |
| ANSC 3613, Nutritional Management of Domestic Animals | 3 |
| ANSC 3633, Veterinary Anatomy and Physiology | 3 |
| ANSC 4003, Current Issues in Animal Agriculture | 3 |
| BIO 2103 **AND** 2101, Microbiology for Nursing and Allied Health and Laboratory | 4 |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry **OR**  CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 2 or 4 |
| COMS 2243, Principles of Argumentation OR  COMS 2373, Introduction to Interpersonal Communication OR COMS 3203, Business and Professional Communication OR COMS 3243, Principles of Persuasion OR  COMS 4263, Organizational Communication | 3 |
| Animal Science (ANSC) Upper-level Electives | 12 |
| **Sub-total** | **34-36** |
| **Emphasis Area (Production and Management):** | **Sem. Hrs.** |
| AGEC 4073, Agricultural Business Management | 3 |
| ANSC 3703, Poultry Flock Management | 3 |
| ANSC 4663, ~~Principles of Breeding~~ Animal Breeding and Genetics | 3 |
| ANSC 4673, Digestive Physiology and Nutrition of Animals | 3 |
| ANSC 4683, Reproductive Physiology | 3 |
| **Sub-total** | **15** |
| **Additional Support Courses:** | **Sem. Hrs.** |
| Upper-level Support Courses (AGEC, AGED, ANSC, BIO, CHEM, PSSC) | **6** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **7-9** |
| **Total Required Hours:** | **120** |

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

**ANSC 4653. Equine Reproduction and Management** Concepts and practices in equine re- production, including male and female reproductive anatomy, estrous cycles, sperm production, gestation, parturition, and breeding systems. Dual listed as ANSC 5653. Prerequisite, ANSC 1613. Spring.

**ANSC 4663. Animal Breeding and Genetics** Basic application of genetic principles to the improvement of

animals. Prerequisite, AGRI 2213 or BIO 3013. 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.

**ANSC 4683. Reproductive Physiology** Anatomy, physiology, endocrinology, and biochemistry of reproduction in farm animals. Management topics include artificial insemination, estrus synchronization, induction of parturition, embryo transfer, and reproductive disease prevention. Prerequisite, ANSC 1613. Spring.