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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 for inclusion in curriculum committee agenda.

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| David Newman 4/8/2020**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| NA Enter date…**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Head of Unit (If applicable)**   |
| David Newman 4/8/2020**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| Bud Kennedy 4/8/2020**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**General Education Committee Chair (If applicable)**   | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

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

**GwanSeon Kim,** **gkim@astate.edu****, 870-972-2087**

2. Proposed Starting Term and Bulletin Year

**Fall 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*. )

**AGEC 6053**

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).

**Advanced Production Economics**

**Adv Production Econ**

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

**Advanced treatment and theory of production economics as related to agricultural production with emphasis on production functions, cost functions, profit maximization, cost minimization.**

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. **NO** Are there any prerequisites?
	1. If yes, which ones?

Enter text...

* 1. Why or why not?

 Enter text...

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.*

Enter text...

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 Only**

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

Standard Letter

10. **NO** 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.)

**The following table outlines the semester requirements for the course. Emphasis will be given on employing the detailed graphics and differential calculus to understand the concepts of production economics.**

**Reading Notation:** DD – David L. Debertin (2012): **Agricultural Production Economics**

**Deliverables:** Quizzes and/or Homework and/or Term-Paper = “Q/H/P”

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| **Week/Date** | **Topic** | **Reading\*** | **Deliverables** |
| **Week 1** | Introduction | DD Ch. 1 | Discussion Board; Q/H  |
| **Week 2** | Production with One Variable Input | DD Ch. 2 | Discussion Board; Q/H |
| **Week 3** | Profit Maximization with One input and One Output | DD Ch. 3 | Discussion Board; Q/H |
| **Week 4** | Cost, Returns and Profits on the Output Side | DD Ch. 4 | Discussion Board; Q/H |
| **Week 5** | Production with Two inputs | DD Ch. 5 | Discussion Board; Q/H |
| **Week 6** | **Proposal Due and Proposal Presentation** | **Research Proposal** | **Written Report and Presentation** |
| **Week 7** | **Mid-Term Exam** | **ONLINE** | **Mid-Term Exam** |
| **Week 8** | Maximization in the Two-Input Case | DD Ch. 6 | Discussion Board; Q/H |
| **Week 9** | Maximization Subject to Budget Constraints | DD Ch. 7 | Discussion Board; Q/H |
| **Week 10** | Returns to Scale, Homogeneous Function | DD Ch. 9 | Discussion Board; Q/H |
| **Week 11** | The Cobb-Douglas Production Function | DD Ch. 10 | Discussion Board; Q/H |
| **Week 12** | The Elasticity of Substitution | DD Ch. 12 | Discussion Board; Q/H |
| **Week 13** | The Demand for Inputs to the Production Process | DD Ch. 13 | Discussion Board; Q/H |
| **Week 14** | Guest Lecture and Review for Final Exam |  |  |
| **Week 15** | **Research Presentation and Paper** | **Research Paper** | **Written Report and Presentation** |
| **Week 16** | **Final Exam** | **ONLINE** | **Final Exam** |

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

Enter text...

19. Department staffing and classroom/lab resources

Conventional classroom

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

 Enter text...

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)

 **Masters-level information on production economics is very important for MS students in Agriculture with an emphasis in Agribusiness and Economics. The theory, methods, and conceptual information is foundational to agribusiness and economics curriculum, adding invaluable content for our students. Students from this course can expect to gain a deep understanding of production economics, focused on costs, benefits, efficiencies, input/output analysis, profit maximization, cost minimization, etc.**

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.

 **The course provides high-level theoretical knowledge of production economics, which is not offered in detail in other masters-level courses currently available under AGEC.**

c. Student population served.

**This course will serve masters students planning to conduct thesis research in agribusiness and applied economics fields.**

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

**Currently the MS in Agriculture with Agribusiness and Economics emphasis lacks a production economics course at the graduate level. This course fills a critical gap in our curriculum and contributes to the modernization of our graduate program.**

**Assessment**

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

22. 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?

**The course contributes to intended program-level learning outcomes on file for the MS in Agriculture Agribusiness concentration. Specifically, the course will fulfill PLO-3, “Students will develop advanced skills in critical thinking and analysis applied to solve relevant problems.”**

23. 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 develop advanced skills in critical thinking and analysis applied to solve relevant problems.** |
| Assessment Measure | **Oral Exit Exam OR Thesis** |
| Assessment Timetable | **In the final semester of the student’s MS coursework.** |
| Who is responsible for assessing and reporting on the results? | **Course instructors and Major Adviser** |

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

 **Course-Level Outcomes**

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

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| **Outcome 1** | **Demonstrate advanced critical thinking skills applied to production economics** |
| Which learning activities are responsible for this outcome? | **Lectures, videos, homework assignments, and reading.** |
| Assessment Measure  | **Course Project and Final Exam** |

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| **Outcome 2** | **Understand and analyze production functions in agricultural contexts** |
| Which learning activities are responsible for this outcome? | **Lectures, videos, homework assignments, and reading.** |
| Assessment Measure  | **Course Project and Final Exam** |

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| **Outcome 3** | **Apply profit maximization procedures to agricultural production problems** |
| Which learning activities are responsible for this outcome? | **Lectures, videos, homework assignments, and reading.** |
| Assessment Measure  | **Course Project and Final Exam** |

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| **Outcome 4** | **Illustrate and manipulate input demand and output supply curves for production systems** |
| Which learning activities are responsible for this outcome? | **Lectures, videos, homework assignments, and reading.** |
| Assessment Measure  | **Course Project and Final Exam** |

**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.* |

**On page 289 of the 2019-2020 Graduate Bulletin:**

**AGEC 6033. Strategic Agribusiness and Food Management Practical application of operational and strategic decision-making tools to agribusiness; emphasis on problem recognition and economic analysis to production, marketing, and financial decisions facing agribusiness and food marketing firms. It includes applied strategic concepts, analysis, and problem solving skills to manage agribusiness and food marketing firms.**

**AGEC 6043. Advanced Agribusiness Management Agribusiness organization and management. Budgeting, input-output relationships, and enterprise analysis in decision making. Application of economics and management principles to manage agribusinesses. Prerequisite: AGEC 1003 or AGEC 4073 or ECON 2313 or ECON 2323 or ACCT 2023 OR ACCT 2033 or MGMT 3123.**

AGEC 6053. Advanced Production Economics Theory and applications of production economics. Emphasis will be given on employing detailed graphical and mathematical analysis to understand the concepts of production economics.

**AGEC 619V. Thesis**