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

**New or Modified Course Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[X] 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 2/25/2021 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| GwanSeon Kim 2/22/2021  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | GwanSeon Kim 1/20/2021  **Graduate Curriculum Committee Chair** |
| Mickey Latour 2/25/2021 **College Dean** | Alan Utter 4/2/2021  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

John Nowlin, [jnowlin@astate.edu](mailto:jnowlin@astate.edu), 336-907-6592

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

Fall 2021

**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** | AGST |  |
| **Number\*** | 5511 |  |
| **Title** | Unmanned Aircraft Systems |  |
| **Description\*\*** | Software and mobile applications for designing  flight missions, collecting data, and analyzing/interpreting imagery for agricultural practices. Intended to prepare students for the Federal Aviation Administration (FAA) remote pilot license exam. Dual listed with AGST 4511. Prerequisites, AGST 5763 or AGST 4543 AND AGST 5773 or AGST 4773. | Software and mobile applications for designing flight missions~~,~~ and collecting data using unmanned aircraft systems~~, and~~ ~~analyzing/interpreting imagery for agricultural practices~~. Intended to prepare students for the Federal Aviation Administration ~~(FAA)~~ remote pilot license exam. Dual listed with AGST 4511. Prerequisites AGST 5~~76~~543 or AGST 4543 or AGST 3543~~AND, AGST 5773 or AGST 4773.~~ |

***\**** (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?   
      Prerequisites AGST 5543 or AGST 4543 or AGST 3543

Why or why not?

To ensure they have GIS and irrigation background

1. **Yes / No** Is this course restricted to a specific major?
   1. If yes, which major? No
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)? **AGST 4511**
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?

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. **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)

This course modification updates the course description and prerequsites for AGST 5511 to make the course more accessible. This modification is being submitted along with mirrored undergraduate course modifications.

**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.** |

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**Agricultural Systems Technologies (AGST)**

**AGST 5003. Modern Irrigation Systems** Methods, equipment, current issues and future directions of irrigation, irrigation design and scheduling, drainage systems, irrigation measurements, performance evaluation, and impact on productive and sustainable agriculture. Prerequisite, MATH 1033 and PSSC 2813. Dual listed as AGST 4003.

**AGST 501V. Special Topics Graduate Seminar** Contemporary topics in Agricultural Systems Technology.

**~~AGST 5022. Irrigation Technology Tools~~** ~~Technical tools and software related to irrigation system hydraulic design and management. Dual listed with AGST 4022. Prerequisites, AGST 5003 or AGST 4003 AND AGST 5763 or AGST 4543~~

**AGST 550~~1~~3.** **Agricultural Decision Tools and Analysis** Hands-on experience with cloud/desktop software, spatial algorithms and tools for irrigation system design/management as well as ~~image~~ processing/analyzing/interpreting of georeferenced agricultural data obtained from diverse sources such as human scouts, ground and equipment sensors, and unmanned aerial systems. Dual listed with AGST 450~~1~~3. ~~Prerequisite, AGST 5763 or AGST 4543~~Prerequisite or Corequisite: AGST 5511

**AGST 5511. Unmanned Aircraft Systems** Software and mobile applications for designing flight missions~~,~~ and collecting data using unmanned aircraft systems~~, and~~ ~~analyzing/interpreting imagery for agricultural practices~~. Intended to prepare students for the Federal Aviation Administration ~~(FAA)~~ remote pilot license exam. Dual listed with AGST 4511. Prerequisites AGST 5~~76~~543 or AGST 4543 or AGST 3543~~AND, AGST 5773 or AGST 4773.~~

**AGST 5~~76~~543. Understanding Geographic Information Systems** Methods, concepts, software, analysis and modeling of geospatial data using raster and vector data models for human- environment interactions using geographic information systems (GIS). Dual listed with AGST 4543.

**AGST 5773. Remote Sensing** Passive and active means of aerial and satellite image acquisition, processing, analysis, and interpretation for research and decision making in agricultural, environmental, and natural resource applications. Dual listed with AGST 4473.

**AGST 6543. Geospatial Data and Models** Geospatial data frameworks and methods including site suitability and hydrological modeling. Prerequisite, AGST 5~~76~~543 or AGST 4543.

**AGST 6843. Applied Geospatial Research Design** and execute applied geospatial research into Human-Environment Interactions. Prerequisites, AGST 5773 or AGST 4773 or; AGST 6543, or instructor permission

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