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

 **Course Deletion Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[x] Graduate Council**

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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**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Donald Kennedy | 2/25/2021 |

**Department Chair** |

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**Head of Unit (if applicable)**   |
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| GwanSeon Kim | 2/25/2021 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Mickey Latour | 2/25/2021 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (if applicable)**   |

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| Alan Utter | 4/2/2021 |

**Vice Chancellor for Academic Affairs** |

1. **Course Title, Prefix and Number**

AGST 5022 Irrigation Technology Tools

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

John Nowlin

1. **Justification**

This AGST 5022 course deletion is being done because the material for this course is being combined with 5501 into one course, AGST 5503 Agricultural Decision Tools and Analysis. This change simplifies the two courses with one and two credits into a single three credit course which will fit easier into student’s schedules. This modification is being submitted along with mirrored undergraduate course modifications.

1. **Last semester course will be offered**

Fall 2021

1. **No Does this course appear in your curriculum? (if yes, and this deletion changes the curriculum, a Program Modification Form is required)**

Program Modification Attached

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

AGST 4022, But, the dual listed undergraduate course is being deleted as well.

1. **No Is this course cross-listed with a course in another department?**

If yes, which course(s)?

 Enter text...

1. **No Is there currently a course listed in the Bulletin or Banner which is a one-to-one equivalent to this course (please check with the Registrar’s Office if unsure)?**

If yes, which course?

**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.**  |

This AGST 5022 course deletion is being done because the material for this course is being combined with 5501 into one course, AGST 5503 Agricultural Decision Tools and Analysis. This change simplifies the two courses with one and two credits into a single three credit course which will fit easier into student’s schedules. This modification is being submitted along with mirrored graduate course modifications.

pg 299 – 300

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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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