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

**Bulletin / Banner Change Transmittal Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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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**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| J. Kim Pittcock | 2/27/2020 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Donald Kennedy | 2/27/2020 |

**College Dean** |

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

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**Vice Chancellor for Academic Affairs** |

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

John Nowlin, jnowlin@astate.edu, (870) 972-3468

**2.Proposed Change**

These bulletin changes are occurring in order to make slight adjustments to the major realignment, completed Spring 2019.

1. Instead of limiting students to taking MATH 1033 Plane Trigonometry, we are allowing for other Math options including MATH 1054 Pre-Calculus, or any MATH course where MATH 1023 or MATH 1054 are prerequsites.
2. The remaining sub specializations of Agriculture plus Geography are added as elective options.
3. Change prerequisites of AGST 3503 - Geospatial Data Applications to AGST 2003 **or CE 2223** ~~PSSC 2813~~

**3.Effective Date**

Fall 2020

**4.Justification –** *Please provide details as to why this change is necessary.*

Note: Multiple bulletin changes associated with an AGST program realignment are being submitted. Justification are supplied along with the changed described above in the Proposed Changes field.

**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.* |

The following changes occur on pages 108 & 109, They are attached below.

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...Highlights in yellow are misspellings in the current Bulletin.

**Major in Agricultural Studies
Bachelor of Science in Agriculture Emphasis in Agricultural Systems Technology**

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. 42) |  |
| **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. 78)**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 CHEM 1041, Fundamental Concepts of Chemistry and Laboratory**BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory**COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **24** |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. |  |
| **Emphasis Area (Agricultural Systems Technology):** | **Sem. Hrs** |
| *Select one of the following:*AGEC 3013, Agricultural RecordsAGST 3503, Geospatial Data Applications | 3 |
| AGRI 4223, Agriculture and the Environment | 3 |
| AGST 3543, Fundamentals of GIS/GPS | 3 |
| AGST 4003, Modern Irrigation Systems | 3 |
| AGST 4022, Irrigation Technology Tools | 2 |
| AGST 4543, ~~Advanced Geographic Information Systems~~ **Understanding Geographic Information Systems** | 3 |
| *Select one of the following:*AGST 4501, Agricultural Decision Analysis **OR**AGST 4511, Unmanned Aircraft Sytems | 1 |
| AGST 4773, Remote Sensing | 3 |
| AGST 4843, Agricultural Systems Technology Capstone | 3 |
| *Select one of the following:*BIO 3023, Principles of Ecology **OR**GEOG 3723, Introduction to Physical Geograph, Weather, and Climate **OR**GEOG 4113, Water Resources Planning **OR**GEOG 4633, Climatology | 3 |
| *Select one of the following:*BIO 1503 AND 1501, Biology of Plants and Laboratory **OR**GEOL 1003 AND 1001, Environmental Geology and Laboratory **OR**PHSC 1014, Energy and the Environment **OR**PHSC 1203 AND 1201, Physical Science and Laboratory **OR**PHYS 1103 AND 1101, Introduction to Space Science and Laboratory **OR**PHYS 2054, General Physics I | 4 |

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| *Select one of the following:*CIT 1503, Microcomputer Applications **OR**CS 1013, Introduction to Computers | 3 |
| GEOG 2613, Introduction to Geography | 3 |
| MATH 1033, Plane Trigonometry **OR** **MATH 1054, Precalculus Mathematics OR** **any MATH course that requires MATH 1023 or MATH 1054 as a prerequisite** | 3 |
| *Select two of the following:*PSSC 3313, Plant Disease Management **OR**PSSC 3323, Weeds and Weed Control **OR**PSSC 4713, Soil Quality Assessment and Interpretation **OR**PSSC 4804, Principles of Crop Production **OR**PSSC 4813, Soil Fertility | 6-7 |
| TECH 3803, Electrical Systems | 3 |
| Upper-level elective in **AGEC, AGED,** AGST, AGRI, **GEOG, HORT,** PSSC | 8-9 |
| **Sub-total** | **58** |
| **Total Required Hours:** | **120** |
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 **Pg 422**

**AGST 3503. Geospatial Data Applications** Basic understanding and utilization of software applications to manage geospatial and tabular data, including text editors, spreadsheets, databases and geodatabases for data: collection, cleaning, joining, filtering, summarization, visualization and unit conversion. Prerequisite: AGST 2003 **or CE 2223** ~~PSSC 2813~~. Fall, Spring.