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

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [ ]Other** |

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 | 2/26/2021 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | J Kim Pittcock | 2/26/2021 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Director of Assessment** *(only for changes impacting assessment)* | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | Mickey A. Latour | 2/26/2021 |   **College Dean** | |  |  | | --- | --- | | Alan Utter 3/15/21 | Enter date |   **Vice Chancellor for Academic Affairs** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** |  |

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

J Kim Pittcock

**Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

Deletion of 2 courses (AGRI 3813 and AGRI 3823) from the College Core (hours reduced from 24-18). This required every major and emphasis area to adjust their program to add 6 hours into the major areas or elective areas.

Major in Agricultural Business

(no emphasis) – adjusted Program Elective hours and some approved Prefixes.

Emphasis in Ag Econ & Fin- increased elective hours.

Emphasis in Ag Market & Mgmt – increased elective hours.

Major in Agricultural Studies

Emphasis in Ag Sc. – added COMS courses, increased elective hours and deleted 1 prefix.

Emphasis in Ag Comm – added COMS courses, and increased Agri elective hours.

Emphasis in Ag Edu – increased elective hours in Agri electives, deleted 1 prefix.

Emphasis in Ag Syst Tech – added GEOG 2613 to Gen Edu (moved from Emphasis area),

(\*changes also shown for AGST proposals), added COMS requirement, added ENG

requirement.

Major in Animal Science

Emphasis in Eq Mgmt – added COMS courses, added 3 hours to elective hours.

Emphasis in Prod & Mgmt - added COMS courses, added 3 hours to elective hours.

Emphasis in Pre-vet - added COMS courses, added 3 hours to elective hours.

Major in Plant and Soil Science

Emphasis in Agro – increase emphasis hours in Agro area.

Emphasis in Env Hort – increased emphasis areas in Envir Hort area.

**Effective Date**

Fall 2021

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

The college faculty voted to delete 2 courses from the College Core. This required every major and emphasis area to adjust their program to add 6 hours into the respective major areas or elective areas.

**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.** |

Pgs. 99 - 113

**AGRICULTURE CORE COURSES**

|  |  |
| --- | --- |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| *Select four of the following:*  AGEC 1003, Introduction to Agricultural Business AGST 2003, Introduction to Ag Systems Technology ANSC 1613, Introduction to Animal Science  PSSC 1303, Introduction to Plant Science PSSC 2813, Soils | 12 |
| *ect one of the following:*  AGRI 3233, Applied Agricultural Statistics STAT 3233, Applied Statistics I  TECH 3773, Statistics | 3 |
| ~~AGRI 3813, Agricultural Biosystems I~~ | ~~3~~ |
| ~~AGRI 3823, Agricultural Biosystems II~~ | ~~3~~ |
| *Select one of the following:*  AGRI 4723, Ag Connections: Technical Interpretation and Professional Applications AGRI 420V, Internships in Agriculture | 3 |
| **Total Required Hours:** | **~~24~~** 18 |

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 ECON 2313, Principles of Macroeconomics*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| ACCT 2033, Introduction to Financial Accounting | 3 |
| ACCT 2133, Introduction to Managerial Accounting | 3 |
| AGEC 3053, Commodity Futures Markets | 3 |
| AGEC 4033, Agricultural Law **OR**  LAW 2023, Legal Environment of Business | 3 |
| AGEC 4053, Agricultural Finance **OR**  FIN 3713, Business Finance | 3 |
| AGEC 4073, Agricultural Business Management | 3 |
| AGEC 4083, Agricultural Policy and Current Issues | 3 |
| CIT 1503, Microcomputer Applications **OR**  CS 1013, Introduction to Computers | 3 |
| ECON 2323, Principles of Microeconomics | 3 |
| MGMT 3123 Principles of Management **OR**  MGMT 3153, Organizational Behavior | 3 |
| MKTG 3013, Marketing | 3 |
| **Sub-total** | **33** |
| **Program Electives:**  Students who do not select an emphasis area must work with an advisor to design a program to meet  their educational and career goals. | **Sem. Hrs.** |
| *Choose 9 hours from the following approved Prefix*: AGEC | 9 |
| *Choose ~~18~~ 15 hours from the following approved Prefixes*:  AGEC, ACCT, AD, AGEC, AGED, AGRI, AGST, ANSC, BCOM, CIT, CMAC, COMS, ECON, ENG, FIN, HORT, IB, LAW, MATH, MDIA, MGMT, MKTG, POSC, PR, PSSC, REI, ~~RET, SCOM~~, STAT, and STCM~~, and TECH~~ | ~~18~~ 15 |
| **Sub-total** | **~~18~~ 24** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **7** |
| **Total Required Hours:** | **120** |

**Emphasis in Agricultural Economics and Finance**

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 ECON 2313, Principles of Macroeconomics*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| ACCT 2033, Introduction to Financial Accounting | 3 |
| ACCT 2133, Introduction to Managerial Accounting | 3 |
| AGEC 3053, Commodity Futures Markets | 3 |
| AGEC 4033, Agricultural Law **OR**  LAW 2023, Legal Environment of Business | 3 |
| AGEC 4053, Agricultural Finance | 3 |
| AGEC 4073, Agricultural Business Management | 3 |
| AGEC 4083, Agricultural Policy and Current Issues | 3 |
| CIT 1503, Microcomputer Applications **OR**  CS 1013, Introduction to Computers | 3 |
| ECON 2323, Principles of Microeconomics | 3 |
| MGMT 3123 Principles of Management **OR**  MGMT 3153, Organizational Behavior | 3 |
| MKTG 3013, Marketing | 3 |
| **Sub-total** | **33** |
| **Emphasis Area (Agricultural Economics and Finance):** | **Sem. Hrs.** |
| CIT 3523, Operations Management | 3 |
| ECON 3313, Microeconomic Analysis | 3 |
| ECON 3323, Money and Banking | 3 |
| ECON 3353, Macroeconomic Analysis | 3 |
| FIN 3713, Business Finance | 3 |
| FIN 3763, Financial Institutions and Markets | 3 |
| MATH 2143, Business Calculus | 3 |
| **Sub-total** | **21** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **~~4~~  10** |
| **Total Required Hours:** | **120** |

**Emphasis in Agricultural Marketing 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. 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 ECON 2313, Principles of Macroeconomics*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| ACCT 2033, Introduction to Financial Accounting | 3 |
| ACCT 2133, Introduction to Managerial Accounting | 3 |
| AGEC 3053, Commodity Futures Markets | 3 |
| AGEC 4033, Agricultural Law **OR**  LAW 2023, Legal Environment of Business | 3 |
| AGEC 4053, Agricultural Finance **OR**  FIN 3713, Business Finance | 3 |
| AGEC 4073, Agricultural Business Management | 3 |
| AGEC 4083, Agricultural Policy and Current Issues | 3 |
| CIT 1503, Microcomputer Applications **OR**  CS 1013, Introduction to Computers | 3 |
| ECON 2323, Principles of Microeconomics | 3 |
| MGMT 3123 Principles of Management **OR**  MGMT 3153, Organizational Behavior | 3 |
| MKTG 3013, Marketing | 3 |
| **Sub-total** | **33** |
| **Emphasis Area (Agricultural Marketing and Management):** | **Sem. Hrs.** |
| AGEC 3003, Agricultural Marketing | 3 |
| AGEC 3013, Decision Tools for Agribusiness | 3 |
| AGEC 3063, Agricultural Sales and Services | 3 |
| AGEC 4023, Grain Merchandising and Commodity Marketing | 3 |
| AGEC 4113, Livestock and Poultry Economics | 3 |
| AGEC 4123, Land Economics and Farm Appraisal | 3 |
| **Sub-total** | **18** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **~~7~~ 13** |
| **Total Required Hours:** | **120** |

**Emphasis in Agricultural Science**

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 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~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. |  |
| **Emphasis Area (Agricultural Science):** | **Sem. Hrs** |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry | 2 |
| 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 |
| Electives from AGEC, AGED, AGST, ANSC, AGRI, PSSC/HORT~~, TECH~~  *No more than 12 hours in one area.* | ~~38~~ 41 |
| **Sub-total** | **~~40~~  46** |
| **Minor:** | **Sem. Hrs** |
| Minor must be approved by advisor and should not include courses taken to fulfill general education  requirements. | **18** |
| **Total Required Hours:** | **120** |

**Emphasis in Agricultural Communications**

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 BIOL 1003* ***AND*** *BIOL 1001, Biological Science and Laboratory*  *CHEM 1013,* ***AND*** *CHEM 1011, General Chemistry I and Laboratory* ***OR***  *CHEM 1043* ***AND*** *CHEM 1041, Fundamental Concepts of Chemistry and Laboratory CMAC 1003, Mass Communications in Modern Society*  *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) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. | **-** |
| **Emphasis Area (Agricultural Communications:)** | **Sem. Hrs** |
| STCM 3023, Principles of Advertising **OR**  STCM 3003, Principles of Public Relations | 3 |
| AGEC 3063, Agricultural Sales and Services | 3 |
| AGEC 4083, Agricultural Policy and Current Issues | 3 |
| AGED 1411, Introduction to Agricultural and Extension Education | 1 |
| AGED 3443, Leadership in Agriculture | 3 |
| AGED 445V, Practicum in Agricultural Communications | 3 |
| AGED 4462, Agricultural Youth Organizations | 2 |
| AGRI 420V, Internships in Agriculture | 3 |
| AGRI 4433, Organic Agricultural Production | 3 |
| AGRI 4223, Agriculture and the Environment | 3 |
| AGST 3503, Geospatial Data Applications | 3 |
| AGST 4003, Modern Irrigation Systems | 3 |
| CMAC 1001, Media Grammar and Style | 1 |
| 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 |
| ENG 3043, Technical Writing **OR**  MDIA 4053, Civic Reporting | 3 |
| MDIA 3013, Multimedia Reporting | 3 |
| MDIA 2053, Introduction to Visual Communications | 3 |
| MDIA 2313, Multimedia Production | 3 |
| MDIA 2323, Reporting Words | 3 |

**Major in Agricultural Studies (cont.)**

**Bachelor of Science in Agriculture Emphasis in Agricultural Communications**

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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| MDIA 3313, Audio and Video Production | 3 |
| STCM 4213, Social Media in Strategic Communications **OR**  GCOM 3673, Desktop Publishing | 3 |
| AGEC, AGED, AGRI, AGST, ANSC, HORT, PSSC or VOED electives | ~~3~~ 6 |
| **Sub-total** | **~~55~~ 64** |
| **Total Required Hours:** | **120** |

**Emphasis in Agricultural Education**

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*** *CHEM 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~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. |  |
| **Emphasis Area (Agricultural Education):** | **Sem. Hrs** |
| ANSC 1621, Introduction to Animal Science Laboratory | 1 |
| PSSC 2811, Soils Lab | 1 |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry | 2 |
| AGED 2433, Principles of Agricultural Power: Electricity and Internal Combustion Engines | 3 |
| AGED 2453, Applications of Welding Technologies to Agriculture | 3 |
| AGED 3453, Agricultural Structural Systems | 3 |
| Electives in AGRI, AGEC, AGED, AGST, ANSC, HORT, PSSC~~, or TECH~~  *(12 hours must be upper-level and all electives must be approved by advisor)* | ~~15~~ 21 |
| **Sub-total** | **~~28~~ 34** |
| **Professional Education Requirements:**  Grade of “C” or better required for all Professional Education Requirements.  Courses denoted below with an asterisk (\*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Secondary Majors in the College of Education and Behavioral Science section. | **Sem. Hrs** |
| AGED 1403, Basic Agricultural Mechanics | 3 |
| AGED 1411, Introduction to Agricultural and Extension Education | 1 |
| AGED 4433, Methods of Teaching Agricultural Mechanics | 3 |
| AGED 4462, Agricultural Youth Organizations | 2 |
| SCED 2513 Introduction to Secondary Teaching | 3 |
| PSY 3703, Educational Psychology | 3 |
| \*EDAG 4623, Special methods for Teaching Agricultural Education | 3 |
| \*TIAG 4826, Teaching Internship in the Secondary School | 12 |
| **Sub-total** | **30** |
| **Total Required Hours:** | **120** |

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:**  *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)*  *GEOG 2613, Introduction to Geography* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. |  |
| **Emphasis Area (Agricultural Systems Technology):** | **Sem. Hrs** |
| *Select one of the following:*  AGEC 3013, Decision Tools for Agribusiness AGST 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 4503, Agricultural Decision Tools and Analysis | 3 |
| AGST 4511, Unmanned Aircraft Systems | 1 |
| AGST 4543, 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 Geography, 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 |

Agricultural Systems Technology

|  |  |
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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~~*  *Select one of the following:*  COMS 2243. Principles of Argumentation **OR**  COMS 2373. Introduction to Interpersonal Communication **OR**  COMS 3243. Principles of Persuasion **OR**  COMS 3203. Business and Professional Communication **OR**  COMS 4263. Organizational Communication | 3 |
| *Select one of the following:*  ENG 3003. Advanced Composition **OR**  ENG 3013. Practical Writing **OR**  ENG 3043. Technical Writing **OR**  ENG 3053. Introduction to Digital Writing **OR**  ENG 4703. Persuasive Writing | 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, or PSSC | ~~8-9~~ 10-11 |
| **Sub-total** | **~~58~~ 64** |
| **Total Required Hours:** | **120** |

**Emphasis in Equine 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. 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*** *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) | **~~24~~** 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** | **~~31-33~~ 34-36** |
| **Emphasis Area (Equine Management):** | **Sem. Hrs.** |
| AGEC 4073, Agricultural Business Management | 3 |
| ANSC 1522, Beginning English Equitation | 2 |
| ANSC 1602, Equitation | 2 |
| ANSC 1612, Intermediate Western Equitation | 2 |
| ANSC 2623, Equine Care and Management | 3 |
| ANSC 4613 Horse Production | 3 |
| ANSC 4743, Equine Nutrition | 3 |
| **Sub-total** | **18** |
| **Additional Support Courses:** | **Sem. Hrs.** |
| Upper-level Support Courses (AGEC, AGED, ANSC, BIO, CHEM, PSSC) | **6** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **~~1-3~~ 4-6** |
| **Total Required Hours:** | **120** |

**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. 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*** *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) | **~~24~~** 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** | **~~31-33~~ 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 | 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 | **~~4-6~~**  **7-9** |
| **Total Required Hours:** | **120** |

**Emphasis in Pre-veterinary**

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*  *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) | **~~24~~** 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 **OR**  BIO 4104, Microbiology | 4 |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 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 | 6 |
| **Sub-total** | **~~27~~ 30** |
| **Emphasis Area (Pre-veterinary):** | **Sem. Hrs.** |
| ANSC 4673, Digestive Physiology and Nutrition of Animals | 3 |
| ANSC 4683, Reproductive Physiology | 3 |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory | 4 |
| CHEM 4243, Biochemistry | 3 |
| MATH 1033, Plane Trigonometry **OR**  MATH 1054, Precalculus | 3-4 |
| PHYS 2054, General Physics I | 4 |
| PHYS 2064, General Physics II | 4 |
| **Sub-total** | **28-29** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **~~2-3~~**  **5-6** |
| **Total Required Hours:** | **120** |

**Emphasis in Agronomy**

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 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Lab*  *BIOL 1003* ***AND*** *1001, Biological Sciences and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| AGEC 3013, Decision Tools for Agribusiness **OR**  CIT 1503, Microcomputer Applications | 3 |
| AGRI 2213, Genetic Improvement of Plants and Animals | 3 |
| AGRI 4223, Agriculture and the Environment | 3 |
| BIO 3303 **AND** 3301, General Entomology and Laboratory **OR**  BIO 3313 **AND** 3311, Economic Entomology and Laboratory | 4 |
| PSSC 3313, Plant Disease Management | 3 |
| PSSC 2811, Soils Laboratory | 1 |
| PSSC 1301, Plant Science Laboratory | 1 |
| PSSC 4313, Plant Growth and Development | 3 |
| **Sub-total** | **21** |
| **Emphasis Area (Agronomy):** | **Sem. Hrs.** |
| AGST 3503, Geospatial Data Applications OR AGST 4003, Modern Irrigation Systems | 3 |
| AGST 3543, Fundamentals of GIS/GPS | 3 |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry | 2 |
| PSSC 3323, Weeds and Weed Control | 3 |
| PSSC 4804, Principles of Crop Production | 4 |
| PSSC 4813, Soil Fertility | 3 |
| AGRI, AGST, HORT or PSSC electives, or BIO 1503, Biology of Plants, or related area | ~~14~~ 20 |
| **Sub-total** | **~~32~~ 38** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **5** |
| **Total Required Hours:** | **120** |

**Emphasis in Environmental Horticulture**

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 1043* ***AND*** *1041, Fundamental Concepts of Chemistry and Lab*  *BIOL 1003* ***AND*** *1001, Biological Sciences and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Agriculture Core Courses:** | **Sem. Hrs.** |
| (See Beginning of Agriculture Section) | **~~24~~** 18 |
| **Major Requirements:** | **Sem. Hrs.** |
| AGEC 3013, Decision Tools for Agribusiness **OR**  CIT 1503, Microcomputer Applications | 3 |
| AGRI 2213, Genetic Improvement of Plants and Animals | 3 |
| AGRI 4223, Agriculture and the Environment | 3 |
| BIO 3303 **AND** 3301, General Entomology and Laboratory **OR**  BIO 3313 **AND** 3311, Economic Entomology and Laboratory | 4 |
| PSSC 3313, Plant Disease Management | 3 |
| PSSC 2811, Soils Laboratory | 1 |
| PSSC 1301, Plant Science Laboratory | 1 |
| PSSC 4313, Plant Growth and Development | 3 |
| **Sub-total** | **21** |
| **Emphasis Area (Environmental Horticulture):** | **Sem. Hrs.** |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry | 2 |
| HORT 3293, Landscape Plant Materials | 3 |
| HORT 4333, Greenhouse and Nursery Production | 3 |
| PSSC 3323, Weeds and Weed Control | 3 |
| AGRI, ~~or~~ AGST, PSSC electives, or BIO 1503, Biology of Plants, or related area | 3-~~9~~ 9-15 |
| HORT electives | 12-18 |
| **Sub-total** | **~~32~~ 38** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **5** |
| **Total Required Hours:** | **120** |