AGRICULTURAL SYSTEMS TECHNOLOGY, BSAG

Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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American History & Government

Select one of the following:

- HIST 1103 Survey of American History
- HIST 1483 American History to 1865 (H)
- HIST 1493 American History Since 1865 (DH)
- POLS 1113 American Government

Analytical & Quantitative Thought (A)

Select one of the following:

- MATH 2123 Calculus for Technology Programs I (A)
- or MATH 2103 Business Calculus (A)
- STAT 2013 Elementary Statistics (A)
- or STAT 2023 Elementary Statistics for Business and Economics (A)

**Hours Subtotal:** 40

Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan

Select at least one Diversity (D) course

Select at least one International Dimension (I) course

**Hours Subtotal:** 40

Additional General Education

Courses designated (A), (H), (N), or (S)

**Hours Subtotal:** 7

Agricultural Sciences and Natural Resources

AG 1011 First Year Seminar
SOIL 2124 Fundamentals of Soil Science (N)
Select one of the following:

- PLNT 1213 Introduction to Plant and Soil Systems
- ENVR 1113 Elements of Environmental Science (N)
- FDSC 1133 Fundamentals of Food Science
- AGEC 1113 Introduction to Agricultural Economics (S)
- or ECON 2103 Introduction to Microeconomics (S)

Written and Oral Communications

Select one of the following:

- AGCM 3103 Written Communications in Agricultural Sciences and Natural Resources
- BCOM 3113 Written Communication
- ENGL 3323 Technical Writing
- CHEM 1314 Chemistry I (LN)

**Hours Subtotal:** 18

Major Requirements

Core Courses

- AST 1413 Introduction to Engineering in Agriculture
- AST 2313 Surveying
- AST 3102 Principles of Agricultural Electrification
- AST 4101 Ag Electrification
- AST 4213 Safety and Health in Agriculture
- AST 4203 Agricultural Water Management
- AST 4303 Automation, Sensors and Controls for Agricultural Systems
- AST 4013 Capstone for Agricultural Systems Technology
- AGEC 3213 Quantitative Methods in Agricultural Economics
- AGEC 3423 Farm and Agribusiness Management
- or MGMT 3013 Fundamentals of Management (S)
- Select from one of the following pairs of courses:
  - ACCT 2103 Financial Accounting
  - ACCT 2203 Managerial Accounting

Technical Agriculture Electives

Select 21 hours from the following:

- ANSI 1124 Introduction to the Animal Sciences
- ANSI 2112 Live Animal Evaluation
- ANSI 2123 Livestock Feeding
- ANSI 2253 Meat Animal and Carcass Evaluation
- ANSI 3333 Meat Science
- ANSI 3423 Animal Genetics
- ENTO 2003 Insects and Society (N)
- ENTO 2143 Global Agricultural Biosecurity and Forensics
- ENTO 2223 Insects in Global Public Health (N)
- ENTO 2993 Introduction to Entomology (LN)
- ENTO 3003 Livestock Entomology

**Hours Subtotal:** 21
ENTO 3021  Postharvest, Structural, and Urban Arthropod Pests
ENTO 3331  Insect Pests of Agronomic Crops
ENTO 3421  Horticultural Insects
ENTO 3461  Insects in Forest Ecosystems
FDSC 3113  Quality Control
FDSC 3123  HACCP in the Food Industry
FDSC 3154  Food Microbiology
FDSC 3133  Plant Sanitation for Food Processing Operations
FDSC 3373  Food Chemistry I
FDSC 4123  Principles of Food Engineering
FDSC 4143  Food Safety Modernization Act
FDSC 4233  Food Safety Audit Schemes
HORT 1013  Principles of Horticultural Science (LN)
HORT 2513  Herbaceous Plant Materials
HORT 2613  Woody Plant Materials
HORT 3084  Plant Propagation
HORT 3113  Greenhouse Management
HORT 3153  Turf Management
HORT 3213  Fruit and Nut Production
HORT 3433  Commercial Vegetable Production
NREM 2083  Geospatial Technologies for Natural Resources
NREM 3613  Principles of Rangeland Management
NREM 3063  Natural Resource Biometrics
PLNT 2013  Applied Plant Science
PLNT 3554  Plant Genetics and Biotechnology
PLNT 4013  Principles of Weed Science
SOIL 4234  Soil Nutrient Management
SOIL 4213  Precision Agriculture
SOIL 4363  Environmental Soil Science
SOIL 4463  Soil and Water Conservation
SOIL 4483  Soil Microbiology

**Hours Subtotal** 54

**Electives**
Select 8 hours or hours to complete required total for degree 8

**Hours Subtotal** 8

**Total Hours** 120

**Other Requirements**
- A minimum of 40 semester credit hours and 100 grade points earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

**Additional State/OSU Requirements**
- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2028.