AGRICULTURE (AGR) 502
125 Ropp Agriculture Building
Phone: (309) 438-5654, Fax: (309) 438-5653
https://Agriculture.IllinoisState.edu
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Chairperson: Robert Rhykerd

Honors in Agriculture
Departmental Honors in Agriculture is available to qualified juniors and seniors. The student completing the Honors Program graduation requirements will graduate “with Honors in Agriculture,” which will be indicated on the student’s official transcript and diploma.

Admission to the Honors Program in Agriculture requires a minimum of sixty (60) semester hours of post-secondary courses with a cumulative grade point average of 3.50 or higher on a 4.00 scale. In order to graduate as an Honors Graduate in Agriculture, a student must fulfill the general requirements for participation in the University Honors Program. Students must also have a cumulative grade point average of 3.50 or higher; a cumulative grade point of 3.70 or higher for all courses taken in the Department of Agriculture; successfully completed two in-course honors in 200-level or higher courses in the student’s technical area; successfully completed one in-course honors course in a 200-level or higher course offered outside the Department of Agriculture; and successfully completed a minimum of three credit hours of AGR 299, Independent Study. The Department of Agriculture offers in-course honors work in all its courses for students enrolled in the University Honors Program or in any departmental honors program. In-course work is offered at the discretion of the instructor. Further details about the University Honors program are available at Honors.IllinoisState.edu.

Agriculture (AGR) Program
Degree Offered: B.S.

Major in Agriculture (AGR)
Agribusiness Sequence
Agriculture Communication and Leadership Sequence
Agronomy Management Sequence
Animal Industry Management Sequence
Animal Science Sequence
Crop and Soil Science Sequence
Food Industry Management Sequence
Horticulture and Landscape Management Sequence
Pre-Veterinary Medicine Sequence
Agriculture Teacher Education Sequence

In meeting program requirements in the Department of Agriculture, the student should note that the courses are considered in areas, as follows:

General courses:
AGR 109, 198, 201, 203, 205, 302, 303, 398

Agribusiness:
AGR 110, 213, 214, 215, 216, 311, 312, 313, 314, 315, 317, 318, 319, 320, 324

Agricultural Education:
AGR 190, 295, 394, 395

Agricultural:
AGR 130, 225, 231, 232, 234, 235, 304, 340, 383

Agronomy:
AGR 150, 157, 272, 304, 305, 306, 352, 355, 357, 363

Animal Science:

Horticulture and Landscape Management:
AGR 120, 150, 157, 252, 253, 254, 255, 256, 257, 260, 262, 352, 353, 355, 356

Clinical Experiences in Teacher Education
A variety of clinical (pre-student teaching) experiences, as well as student teaching, are included in the teacher candidates professional preparation. Observations, small and large group instruction, tutoring, field experiences, and student teaching are included in the Clinical Experiences Program. The experiences offered prior to student teaching are integral parts of specific college courses. Clinical experiences are provided in off-campus professional development schools, local schools, campus laboratory schools, agencies and other approved non-school settings. The Cecilia J. Lauby Teacher Education Center monitors and documents all clinical experiences. Teacher candidates will show verification of having completed clinical experiences commensurate with attaining local, state, and national standards. Teacher candidates must provide their own transportation to clinical experiences sites.

Candidates are required to provide documentation of meeting all State of Illinois, district, and university requirements in regard to criminal background checks BEFORE beginning any clinical experiences. Criminal background checks must remain current as of the last day of the clinical experience. Candidates should consult with clinical course faculty and the Cecilia J. Lauby Teacher Education Center well in advance of clinical experiences to determine specific requirements needed each semester. The approximate number of clinical hours associated with each course offering can be found with the appropriate course description. The following legend relates to the type and kind of activity related to a specific course.

Clinical Experiences Legend
- Observation (including field trips)
- Tutoring one-on-one contact
- Non-instructional assisting
- Small group instruction
- Whole class instruction
- Work with clinic client(s)
- Graduate practicum
- Professional meeting

Minor in Agriculture (AGR)
- 24 hours in Agriculture required
- Required courses:
  - AGR 109
  - Two 100-level Agriculture courses

Agriculture Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

All Courses: https://coursefinder.illinoisstate.edu/directory/
**MAJOR IN AGRICULTURE (B.S.)**

**AGRIBUSINESS SEQUENCE**

### General Education Program (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

### Communication and Composition (2 courses required)
- 3 COM 110 Communication as Critical Inquiry
- 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

### Mathematics (1 course required)
- 4 MAT 120 Finite Mathematics

### Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.

### United States Traditions (1 course required)

### Individuals & Civic Life (1 course required)

### Fine Arts (1 course/3 credit hours required)***

### Humanities (1 course required)***

### Language in the Humanities (1 course required)***

### Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture majors

### Science, Math, & Technology (1 course required)
See major requirements for science, math, & technology options

### Social Sciences (1 course required)***

### Additional Graduation Requirements
- /120 minimum total credit hours
- /42 minimum senior college hours

### AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

### B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

### Major (min. 62 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 AGR 109</td>
<td>Introduction to the Agriculture Industry</td>
</tr>
<tr>
<td>3 AGR 110</td>
<td>Introductory Agricultural Economics</td>
</tr>
<tr>
<td>3 ACC 131</td>
<td>Financial Accounting (P: 12+ earned hours)</td>
</tr>
<tr>
<td>4 ECO 105</td>
<td>Principles of Economics</td>
</tr>
<tr>
<td>4 MAT 120</td>
<td>Finite Mathematics (P: C or better in MAT 119 or placement)</td>
</tr>
</tbody>
</table>

### Take 1 of the following courses:
- 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory
- 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

### Take 4 (12-14 credit hours) of the following courses:
- 3 AGR 120 Introductory Horticulture
- 3 AGR 130 Introduction to Agricultural Engineering Technology
- 4 AGR 150 Principles of Agronomy
- 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)
- 3 AGR 170 Introduction to Animal Science
- 3 AGR 205 Microcomputer Applications in Agriculture

### Take 6 (18 credit hours) additional Agriculture electives:
At least 4 (12 credit hours) courses must be Agribusiness courses selected from: AGR 213, 214, 215, 216, 311, 312, 313, 314, 315, 317, 318, 319, 320, 324

### Agribusiness electives:

### Agriculture electives:

### Take 4 (12 credit hours) additional electives from the College of Business and/or the Department of Economics:

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- Non-business majors who desire to elect more than 30 hours of their coursework in business must meet all College of Business requirements for graduation. These students should register for additional courses only in person and with the written permission of the College of Business advisor.

### Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

### Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
AGRIBUSINESS SEQUENCE

Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
_____ 3 C2 900 COM 110 Communication as Critical Inquiry
_____ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
_____ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
_____ 4 M1 906 MAT 120 Finite Math

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
_____ 4 P1 902 and P1 902L CHE 110/112 Fundamentals of Chemistry or P1 902L CHE 140 General Chemistry

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented
_____ 3 S3 901 Macroeconomics
_____ 3 S3 902 Microeconomics

Additional Graduation Requirements
_____ /120 minimum total credit hours
_____ /42 minimum senior college hours

AMALI requirement (1 course required)
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

Major (min. 62 credit hours)
_____ 3 AGR 109 Introduction to the Agriculture Industry
_____ 3 AGR 110 Introductory Agricultural Economics
_____ 3 ACC 131 Financial Accounting (P: 12+ earned hours)
_____ 4 ECO 105 Principles of Economics
_____ 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)

Take 1 of the following courses:
_____ 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory
_____ 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Take 4 (12-14 credit hours) of the following courses:
_____ 3 AGR 120 Introductory Horticulture
_____ 3 AGR 130 Introduction to Agricultural Engineering Technology
_____ 4 AGR 150 Principles of Agronomy
_____ 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)
_____ 3 AGR 170 Introduction to Animal Science
_____ 3 AGR 205 Microcomputer Applications in Agriculture

Take 6 (18 credit hours) additional Agriculture electives:
At least 4 (12 credit hours) courses must be Agribusiness courses selected from: AGR 213, 214, 215, 216, 311, 312, 313, 314, 315, 317, 318, 319, 320, 324

Agribusiness electives:

Agriculture electives:

Take 4 (12 credit hours) additional electives from the College of Business and/or the Department of Economics:

- AGR 295, 394, and 395 do not count toward this major
- Non-business majors who desire to elect more than 30 hours of their coursework in business must meet all College of Business requirements for graduation. These students should register for additional courses only in person and with the written permission of the College of Business advisor.

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Agriculture Communication and Leadership Sequence

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
___  3  COM 110  Communication as Critical Inquiry
___  3  ENG 101 or ENG 101A10  Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture Communication & Leadership majors

Science, Math, & Technology (1 course required)
See major requirements for science, math, & technology options

Social Sciences (1 course required)***

Additional Graduation Requirements
___/120 minimum total credit hours
___/42 minimum senior college hours

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

Major (min. 55 credit hours)
___  3  AGR 109  Introduction to the Agriculture Industry
___  3  AGR 110  Introductory Agricultural Economics
___  3  AGR 120  Introductory Horticulture
___  3  AGR 130  Introduction to Agricultural Engineering Technology
___  4  AGR 150  Principles of Agronomy
___  3  AGR 170  Introduction to Animal Science
___  2  AGR 190  Introduction to Agricultural Education (P: conc. reg. in AGR 191 or 192)
___  1  AGR 192  Introduction to Agricultural Communication & Leadership (P: AGR 190 or conc. reg.)
___  3  AGR 205  Microcomputer Applications in Agriculture
___  3  COM 111  Introduction to Communication Theories
___  3  COM 297  Communication Research Methods (P: COM 111)

Take 3 credit hours from the following courses:
___  3  AGR 295  Summer Internship in Agricultural Education†
___  1-6 AGR 398  Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

Take 1 (2-3 credit hours) of the following courses:
___  3  AGR 319  Agriculture Programs & Programs (P: AGR 110)
___  3  EAF 228  Social Foundations (P: 45+ earned hours)
___  3  EAF 231  Introduction to Philosophy of Education (P: 45+ earned hours)
___  3  EAF 235  Historical Foundations (P: 45+ earned hours)
___  2  TCH 212  Issues in Secondary Education

Take 2 or 3 (6-9 credit hours) additional Agriculture electives: Refer to the AGR section of the catalog for elective course options or consult your academic advisor.

Take 4 (12 credit hours) additional electives from the School of Communication:

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Agriculture Communication and Leadership Sequence

Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
______ 3  C2 900  COM 110  Communication as Critical Inquiry
______ 3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
______ 3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
______ 4  M1 906  MAT 120  Finite Math

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
______ 4  P1 902 and P1 902L  CHE 110/112  Fundamentals of Chemistry or P1 902L  CHE 140  General Chemistry I

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented
______ 3  S3 901  Macroeconomics
______ 3  S3 902  Microeconomics

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours

AMALI requirement (1 course required)
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

Major (min. 55 credit hours)
______ 3  AGR 109  Introduction to the Agriculture Industry
______ 3  AGR 110  Introductory Agricultural Economics
______ 3  AGR 120  Introductory Horticulture
______ 3  AGR 130  Introduction to Agricultural Engineering Technology
______ 4  AGR 150  Principles of Agronomy
______ 3  AGR 170  Introduction to Animal Science
______ 2  AGR 190  Introduction to Agricultural Education (P: conc. reg. in AGR 191 or 192)
______ 1  AGR 192  Introduction to Agricultural Communication & Leadership (P: AGR 190 or conc. reg.)
______ 3  AGR 205  Microcomputer Applications in Agriculture
______ 3  COM 111  Introduction to Communication Theories
______ 3  COM 297  Communication Research Methods (P: COM 111)

Take 3 credit hours from the following courses:
______ 3  AGR 295  Summer Internship in Agricultural Education†
______ 1-6  AGR 398  Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

Take 1 (2-3 credit hours) of the following courses:
______ 3  AGR 319  Agriculture Programs & Programs (P: AGR 110)
______ 3  EAF 228  Social Foundations (P: 45+ earned hours)
______ 3  EAF 231  Introduction to Philosophy of Education (P: 45+ earned hours)
______ 3  EAF 235  Historical Foundations (P: 45+ earned hours)
______ 2  TCH 212  Issues in Secondary Education

Take 2 or 3 (6-9 credit hours) additional Agriculture electives: Refer to the AGR section of the catalog for elective course options or consult your academic advisor.

Take 4 (12 credit hours) additional electives from the School of Communication:

† Admission to Professional Studies required

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
AGRonomy MANAGEMENT SEQUENCE

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
   ____  3  COM 110  Communication as Critical Inquiry
   ____  3  ENG 101 or ENG 101A10  Composition as Critical Inquiry

Mathematics (1 course required)
   ____  4  MAT 120  Finite Mathematics

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture Majors

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)***

Additional Graduation Requirements
   ____/120 minimum total credit hours
   ____/42 minimum senior college hours

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
   ____  4  AGR 157  Soil Science

Major 55 hours in Agriculture Required
   ____  3  AGR 109  Introduction to the Agriculture Industry
   ____  3  AGR 110  Introductory Agricultural Economics
   ____  3  AGR 120  Introductory Horticulture
   ____  4  AGR 150  Principles of Agronomy
   ____  4  AGR 157  Soil Science (P: CHE 102 or 110 or 140)
   ____  3  AGR 203  Agriculture And the Environment
   ____  3  AGR 234  Soil & Water Conservation
   ____  3  AGR 272  Agricultural Genetics
   ____  4  AGR 305  Crop Growth & Development
   ____  4  AGR 357  Soil Fertility & Fertilizers (P: AGR 157)

Take 12 credit hours additional senior level Agribusiness electives:
Please consult your catalog for course options and/or academic advisor.

Take 6 credit hours additional senior level Agronomy electives:
Please consult your catalog for course options and/or academic advisor.

Take a 3 hour senior level Horticulture course:
Please consult your catalog for course options and/or academic advisor.

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
AGRONY SEQUENCE
Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

___ 3  C2 900  COM 110  Communication as Critical Inquiry
___ 3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
___ 3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
___ 4  M1 906  MAT 120  Finite Math

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

___ 3  S3 901  Macroeconomics
___ 3  S3 902  Microeconomics
___

Additional Graduation Requirements
______/120 minimum total credit hours
______/42 minimum senior college hours

AMALI requirement (1 course required)
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
___ 4  AGR 157  Soil Science

Major 55 hours in Agriculture Required
___ 3  AGR 109  Introduction to the Agriculture Industry
___ 3  AGR 110  Introductory Agricultural Economics
___ 3  AGR 120  Introductory Horticulture
___ 4  AGR 150  Principles of Agronomy
___ 4  AGR 157  Soil Science (P: CHE 102 or 110 or 140)
___ 3  AGR 203  Agriculture And the Environment
___ 3  AGR 234  Soil & Water Conservation
___ 3  AGR 272  Agricultural Genetics
___ 4  AGR 305  Crop Growth & Development
___ 4  AGR 357  Soil Fertility & Fertilizers (P: AGR 157)

Take 12 credit hours additional senior level Agribusiness electives:
Please consult your catalog for course options and/or academic advisor.

Take 6 credit hours additional senior level Agronomy electives:
Please consult your catalog for course options and/or academic advisor.

Take a 3 hour senior level Horticulture course:
Please consult your catalog for course options and/or academic advisor.

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Animal Industry Management Sequence

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
___ 3 COM 110 Communication as Critical Inquiry
___ 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)
___ 4 MAT 120 Finite Mathematics

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning for B.S. (1 course required)
Exempt for Agribusiness majors

Science, Math, & Technology (1 course required)
See major requirements for science, math, & technology options

Social Sciences (1 course required)***

Additional Graduation Requirements
___/120 minimum total credit hours
___/42 minimum senior college hours

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.
MAJOR IN AGRICULTURE (B.S.)
ANIMAL INDUSTRY MANAGEMENT SEQUENCE

Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
____ 3  C2 900  COM 110  Communication as Critical Inquiry
____ 3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
____ 3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
____ 3  P1 903L CHE 102 Chemistry and Society or P1 902 and P1 902L CHE 110/112 Fundamentals of Chemistry or P1 902L CHE 140 General Chemistry I
____ 3 or 4  L1 900L BSC 101 Fund Concepts in Biology or L1 910L BSC 196 Biological Diversity or BSC 197 Molecular/Cellular Basis of Life

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

Additional Graduation Requirements
____/120 minimum total credit hours
____/42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

Major (min. 61 credit hours)
____ 3  AGR 109  Introduction to the Agriculture Industry
____ 3  AGR 170  Introduction to Animal Science
____ 2  AGR 173  Working With Domestic Animals (P: AGR 170 or conc. reg.)
____ 3  AGR 272  Agricultural Genetics
____ 4  AGR 275  Introduction to Animal Nutrition (P: AGR 170)
____ 3  AGR 282  Anatomy & Physiology of Livestock & Companion Animals I (P: AGR 170 and BSC 196 or 197)
____ 3  AGR 283  Reproductive Physiology of Livestock
____ 3  AGR 286  Behavior of Domestic Animals
____ 3  AGR 380  Current Issues in the Livestock Industry (P: AGR 170, 173, 272, 275, 282, 283, 286; 75+ earned or in progress hours)

Take 1 of the following courses:
____ 3  AGR 110  Introductory Agricultural Economics
____ 3  AGR 120  Introductory Horticulture
____ 3  AGR 130  Introduction to Agricultural Engineering Technology
____ 4  AGR 150  Principles of Agronomy
____ 4  AGR 157  Soil Science (P: CHE 102 or 110 or 140)

Choose 1 of the following options:
____ 2  AGR 381A01  Livestock Industry: Beef Cattle (P: AGR 170, 173, 272, 275, 282, 283, 286, 380 or conc. reg.)
____ 2  AGR 381A03  Livestock Industry: Swine (P: AGR 170, 173, 272, 275, 282, 283, 286, 380 or conc. reg.)
____ 2  AGR 398  Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

Choose 1 of the following options:
____ 3  CHE 102  Chemistry & Society
____ 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory
____ 4/4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.) AND CHE 141 General Chemistry II (P: CHE 140)

Choose 1 of the following options:
____ 3  BSC 101  Fundamental Concepts in Biology
____ 4/4 BSC 196 Biological Diversity AND BSC 197 Molecular & Cellular Basis of Life

Take 5 (15 credit hours) additional Agribusiness electives:
Please consult your academic advisor.

Take 8 credit hours of additional Animal Science electives:
Please consult your academic advisor.

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)

ANIMAL SCIENCE SEQUENCE

General Education Program (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

   Mathematics (1 course required)
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

   Natural Science/Natural Science Alternatives (2 courses required)
   Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
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United States Traditions (1 course required)
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

Individuals & Civic Life (1 course required)
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Fine Arts (1 course/3 credit hours required)***
   ___  ___  ___________________________________________
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   Humanities (1 course required)***
   ___  ___  ___________________________________________
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   Language in the Humanities (1 course required)***
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Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture majors
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

Science, Math, & Technology (1 course required)
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
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Social Sciences (1 course required)***
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
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Additional Graduation Requirements
   ___ /120 minimum total credit hours
   ___ /42 minimum senior college hours

   AMALI requirement
   ***Certain courses in General Education fulfill the AMALI requirement.
   See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.
   ___  ___  ___________________________________________
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Major (min. 56 credit hours)
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________
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   Take 1 of the following courses:
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   Choose 1 of the following options:
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   Choose 1 of the following options:
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   Take 1 of the following courses:
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   Take 1 of the following courses:
   ___  ___  ___________________________________________
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   Take 4 credit hours of additional Animal Science electives:
   Please consult your academic advisor.
   ___  ___  ___________________________________________
   ___  ___  ___________________________________________

   Agriculture (AGR) Courses:
   https://coursefinder.illinoisstate.edu/directory/agr/

   Directory of all courses:
   https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)

ANIMAL SCIENCE SEQUENCE

Transfer Students

ILLINOIS ARTICULATION INITIATIVE (MIN. 37 CREDIT HOURS)

To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)

A grade of C or better required in ENG 101 and 145 or equivalents

____ 3 C2 900 COM 110 Communication as Critical Inquiry

____ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry

____ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)

Please see major requirements for mathematics options

____ 4 M1 906 MAT 120 Finite Mathematics

OR M1 900-1 MAT 145 Calculus I

Physical & Life Sciences (2 courses/7-8 hours required)

Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

____ 4 P1 902L CHE 110 Fundamentals of Chemistry

and P1 902L CHE 112 Fundamentals of Chemistry Lab

or P1 902L CHE 140 General Chemistry I and CHE 141 General Chemistry II

____ 4 L1 910L BSC 196 Biological Diversity

or L1 910L BSC 197 Molecular/Cellular Basis of Life

Humanities & Fine Arts (3 courses required)

At least 1 humanities and 1 fine arts course required

____ ______________________________

____ ______________________________

____ ______________________________

Social & Behavioral Sciences (3 courses required)

1 different disciplines must be represented

____ ______________________________

____ ______________________________

____ ______________________________

ADDITIONAL GRADUATION REQUIREMENTS

____ /120 minimum total credit hours

____ /42 minimum senior college hours

AMALI REQUIREMENT

See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)

See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

____ 3 AGR 282 Anatomy & Physiology of Livestock & Companion Animals I

MAJOR (MIN. 56 CREDIT HOURS)

____ 3 AGR 109 Introduction to the Agriculture Industry

____ 3 AGR 170 Introduction to Animal Science

____ 2 AGR 173 Working With Domestic Animals (P: AGR 170 or conc. reg.)

____ 3 AGR 272 Agricultural Genetics

____ 4 AGR 275 Introduction to Animal Nutrition (P: AGR 170)

____ 3 AGR 282 Anatomy & Physiology of Livestock & Companion Animals I (P: AGR 170 and BSC 196 or 197)

____ 3 AGR 283 Reproductive Physiology of Livestock

____ 3 AGR 286 Behavior of Domestic Animals

____ 3 AGR 380 Current Issues in the Livestock Industry (P: AGR 170, 173, 272, 275, 282, 283, 286; 75+ earned or in progress hours)

TAKE 1 OF THE FOLLOWING COURSES:

____ 3 AGR 110 Introductory Agricultural Economics

____ 3 AGR 120 Introductory Horticulture

____ 3 AGR 130 Introduction to Agricultural Engineering Technology

____ 4 AGR 150 Principles of Agronomy

____ 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)

CHOOSE 1 OF THE FOLLOWING OPTIONS:

____ 2 AGR 381A01 Livestock Industry: Beef Cattle (P: AGR 170, 173, 272, 275, 282, 283, 286, 380 or conc. reg.)

____ 2 AGR 381A03 Livestock Industry: Swine (P: AGR 170, 173, 272, 275, 282, 283, 286, 380 or conc. reg.)

____ 2 AGR 398 Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

CHOOSE 1 OF THE FOLLOWING OPTIONS:

____ 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory

____ 4/4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.) AND CHE 141 General Chemistry II (P: CHE 140)

CHOOSE 1 OF THE FOLLOWING OPTIONS:

____ 5 CHE 220 Elementary Organic Chemistry (P: CHE 112 or 141)

____ 3/1 CHE 230 Organic Chemistry I (P: CHE 141) AND CHE 231 Organic Chemistry Laboratory (P: CHE 141; conc. reg. in CHE 230)

TAKE 1 OF THE FOLLOWING COURSES:

____ 3 CHE 242 Basic Biochemistry (P: 1 semester of organic chemistry)

____ 3 CHE 342 General Biochemistry I (P: C or better in CHE 232 or 1 year of organic chemistry)

TAKE 1 OF THE FOLLOWING COURSES:

____ 4 BSC 196 Biological Diversity

____ 4 BSC 197 Molecular & Cellular Basis of Life

TAKE 1 OF THE FOLLOWING COURSES:

____ 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)

____ 4 MAT 144 Precalculus (P: C or better in MAT 119 & 108 or placement)

____ 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

TAKE 4 CREDIT HOURS OF ADDITIONAL ANIMAL SCIENCE ELECTIVES:

Please consult your academic advisor.

AGRICULTURE (AGR) COURSES:

https://coursefinder.illinoisstate.edu/directory/agr/

DIRECTORY OF ALL COURSES:

https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
CROP AND SOIL SEQUENCE

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
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Mathematics (1 course required)
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Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.

United States Traditions (1 course required)
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Individuals & Civic Life (1 course required)
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Fine Arts (1 course/3 credit hours required)***
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Humanities (1 course required)***
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Language in the Humanities (1 course required)***
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Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture majors

Science, Math, & Technology (1 course required)
See major requirements for science, math, & technology options

Social Sciences (1 course required)***
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Additional Graduation Requirements
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Major (min. of 61 hours)

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Choose 1 of the following options:

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Take 1 of the following courses:

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Take 3 credit hours additional Agronomy electives:
Please consult your academic advisor.

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Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
### MAJOR IN AGRICULTURE (B.S.)

#### CROP AND SOIL SEQUENCE

#### Transfer Students

**Illinois Articulation Initiative (min. 37 credit hours)**
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

**Communication and Composition (3 courses required)**
A grade of C or better required in ENG 101 and 145 or equivalents

- 3 C2 900 COM 110 Communication as Critical Inquiry
- 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
- 3 C1 901 ENG 145 Writing in the Academic Disciplines

**Mathematics (1 course required)**

- 4 M1 906 MAT 120 Finite Math

**Physical & Life Sciences (2 courses/7-8 hours required)**
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

- 4 P1 902 and P1 902L CHE 110/112 Fundamentals of Chemistry or P1 902L CHE 140 General Chemistry I

**Humanities & Fine Arts (3 courses required)**
At least 1 humanities and 1 fine arts course required

**Social & Behavioral Sciences (3 courses required)**
2 different disciplines must be represented

- 3 S3 901 Macroeconomics
- 3 S3 902 Microeconomics

**Additional Graduation Requirements**

- /120 minimum total credit hours
- /42 minimum senior college hours

**AMALI requirement (1 course required)**
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

**B.S. Science, Math, & Technology (1 course required)**
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

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**Major (min. of 61 hours)**

- 3 AGR 109 Introduction to the Agriculture Industry
- 3 AGR 110 Introductory Agricultural Economics
- 3 AGR 120 Introductory Horticulture
- 4 AGR 150 Principles of Agronomy
- 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)
- 3 AGR 203 Agriculture And the Environment
- 3 AGR 234 Soil & Water Conservation
- 3 AGR 272 Agricultural Genetics
- 4 AGR 305 Crop Growth & Development
- 4 AGR 357 Soil Fertility & Fertilizers (P: AGR 157)
- 5 CHE 220 Elementary Organic Chemistry (P: CHE 112 or 141)
- 3 CHE 242 Basic Biochemistry (P: 1 semester of organic chemistry)
- 3 GEO 102 Principles of Geology
- 4 PHY 105 Fundamentals of Physics

**Choose 1 of the following options:**

- 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory
- 4/4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.) AND CHE 141 General Chemistry II (P: CHE 140)

**Take 1 of the following courses:**

- 4 MAT 120 Finite Mathematics (P: C or better in MAT 119 or placement)
- 4 MAT 144 Precalculus (P: C or better in MAT 119 & 108 or placement)
- 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

**Take 3 credit hours additional Agronomy electives:**
Please consult your academic advisor.

**Agriculture (AGR) Courses:**
https://coursefinder.illinoisstate.edu/directory/agr/

**Directory of all courses:**
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Food Industry Management Sequence

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
  _____  3  COM 110  Communication as Critical Inquiry
  _____  3  ENG 101 or ENG 101A10  Composition as Critical Inquiry

Mathematics (1 course required)
  _____  4  MAT 120  Finite Mathematics

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for natural science options.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning for B.S. (1 course required)
Exempt for Agriculture majors

Science, Math, & Technology (1 course required)
See major requirements for science, math, & technology options

Social Sciences (1 course required)***

Additional Graduation Requirements
  ____/120 minimum total credit hours
  ____/42 minimum senior college hours

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S. — SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.
  _____  3  AGR 271  Foods of Animal Origin

Major (min. 60 credit hours)
  _____  3  AGR 109  Introduction to the Agriculture Industry
  _____  3  AGR 110  Introductory Agricultural Economics
  _____  3  AGR 271  Foods of Animal Origin (P: CHE 110 & 112; or CHE 140 & 141)
  _____  3  AGR 315  Financial Management & Analysis of the Agribusiness Firm (P: AGR 215; MAT 120; AGR 216 or ACC 131)
  _____  3  AGR 317  Food Industry Marketing & Strategic Management (P: AGR 215)
  _____  3  ACC 131  Financial Accounting (P: 12+ earned hours)
  _____  4  ECO 105  Principles of Economics
  _____  3  FIL 185  Legal, Ethical, & Social Environment of Business (P: 15+ earned hours; ECO 103 or 105)
  _____  3  MKT 230  Introduction to Marketing Management (P: ECO 103 or 105; 60+ earned hours)
  _____  4  MAT 120  Finite Mathematics (P: C or better in MAT 119 or placement)

Choose 1 of the following options:
  4/1  CHE 110/112  Fundamentals of Chemistry & Laboratory
  _____  4  CHE 140  General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Take 1 of the following courses:
  _____  3  AGR 120  Introductory Horticulture
  _____  3  AGR 130  Introduction to Agricultural Engineering Technology
  _____  4  AGR 150  Principles of Agronomy
  _____  3  AGR 170  Introduction to Animal Science

Take 1 of the following courses:
  _____  3  AGR 205  Microcomputer Applications in Agriculture
  _____  3  IT 150  Using Microcomputer Productivity Tools

Take 1 of the following courses:
  _____  3  ECO 138  Economic Reasoning Using Statistics (P: MAT 120 or 130 or 145)
  _____  3  MQM 100  Statistical Reasoning (P: MAT 120 or 121 or 144 or 145)

Take 5 (15 credit hours) additional Food Industry Management electives:
(AGR 214, 215, 257, 285, 314, 319, 324, 340; FCS 102, 113, 213, 316, 319, 332)

Take 1 additional elective from the College of Business and/or the Department of Economics:

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)

FOOD INDUSTRY MANAGEMENT SEQUENCE

Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

- 3   C2 900  COM 110  Communication as Critical Inquiry
- 3   C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
- 3   C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
- 4   M1 906 MAT 120  Finite Math

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

- 4-5 P1 902  CHE 110 Fundamentals of Chemistry and CHE 112 Lab or P1 902L  CHE 140 General Chemistry I

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

- 3   S3 901  Macroeconomics
- 3   S3 902  Microeconomics

Additional Graduation Requirements

- 120 minimum total credit hours
- 42 minimum senior college hours

AMALI requirement (1 course required)
***certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

- 3   AGR 271  Foods of Animal Origin

Major (min. 60 credit hours)

- 3   AGR 109  Introduction to the Agriculture Industry
- 3   AGR 110  Introductory Agricultural Economics
- 3   AGR 271  Foods of Animal Origin (P: CHE 110 & 112; or CHE 140 & 141)
- 3   AGR 315  Financial Management & Analysis of the Agribusiness Firm (P: AGR 215; MAT 120; AGR 216 or ACC 131)
- 3   AGR 317  Food Industry Marketing & Strategic Management (P: AGR 215)
- 3   ACC 131  Financial Accounting (P: 12+ earned hours)
- 4   ECO 105  Principles of Economics
- 3   FIL 185  Legal, Ethical, & Social Environment of Business (P: 15+ earned hours; ECO 103 or 105)
- 3   MKT 230  Introduction to Marketing Management (P: ECO 103 or 105; 60+ earned hours)
- 4   MAT 120  Finite Mathematics (P: C or better in MAT 119 or placement)

Choose 1 of the following options:

- 4/1   CHE 110/112  Fundamentals of Chemistry & Laboratory
- 4   CHE 140  General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Take 1 of the following courses:

- 3   AGR 120  Introductory Horticulture
- 3   AGR 130  Introduction to Agricultural Engineering Technology
- 4   AGR 150  Principles of Agronomy
- 3   AGR 170  Introduction to Animal Science

Take 1 of the following courses:

- 3   AGR 205  Microcomputer Applications in Agriculture
- 3   IT 150  Using Microcomputer Productivity Tools

Take 1 of the following courses:

- 3   ECO 138  Economic Reasoning Using Statistics (P: MAT 120 or 130 or 145)
- 3   MQM 100  Statistical Reasoning (P: MAT 120 or 121 or 144 or 145)

Take 5 (15 credit hours) additional Food Industry Management electives:
(AGR 214, 215, 257, 285, 314, 319, 324, 340; FCS 102, 113, 213, 316, 319, 332)

- 3   AGR 257
- 3   FCS 102
- 3   FCS 113
- 3   FCS 213
- 3   FCS 316
- 3   FCS 319
- 3   FCS 324
- 3   FCS 332

Take 1 additional elective from the College of Business and/or the Department of Economics:

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Horticulture and Landscape Management Sequence

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
____  3  COM 110  Communication as Critical Inquiry
____  3  ENG 101 or ENG 101A10  Composition as Critical Inquiry

Mathematics (1 course required)
____  4  MAT 120  Finite Mathematics

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for science options.

United States Traditions (1 course required)
____  ___  ______________________________________________

Individuals & Civic Life (1 course required)
____  ___  ______________________________________________

Fine Arts (1 course/3 credit hours required)***
____  ___  ______________________________________________

Humanities (1 course required)***
____  ___  ______________________________________________

Language in the Humanities (1 course required)***
____  ___  ______________________________________________

Quantitative Reasoning for B.S. or LAN 115 for B.A. (1 course required)
Exempt for Horticulture & Landscape Management majors

Science, Math, & Technology (1 course required)
____  ___  ______________________________________________

Social Sciences (1 course required)***
____  ___  ______________________________________________

Additional Graduation Requirements
____/120 minimum total credit hours
____/42 minimum senior college hours

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S. — SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.
____  4  AGR 157  Soil Science

Major (min. 59 credit hours)
____  3  AGR 109  Introduction to the Agriculture Industry
____  3  AGR 110  Introductory Agricultural Economics
____  3  AGR 120  Introductory Horticulture
____  3  AGR 130  Introduction to Agricultural Engineering Technology
____  4  AGR 157  Soil Science (P: CHE 102 or 110 or 140)
____  3  ACC 131  Financial Accounting (P: 12+ earned hours)
____  4  ECO 105  Principles of Economics
____  3  FIL 185  Legal, Ethical, & Social Environment of Business (P: 15+ earned hours; ECO 103 or 105)
____  4  MAT 120  Finite Mathematics (P: C or better in MAT 119 or placement)

Choose 1 of the following options:
____  4/1  CHE 110/112  Fundamentals of Chemistry & Laboratory
____  4  CHE 140  General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Take 1 of the following courses; AGR 150 preferred:
____  4  AGR 150  Principles of Agronomy
____  4  BSC 196  Biological Diversity
____  4  BSC 197 Molecular & Cellular Basis of Life

Take 4 (12 credit hours) additional Agriculture electives:
(AGR 252, 253, 254, 255, 256, 260, 262, 352, 353, 355, 356)
____  ___  ______________________________________________
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Take 3 (9 credit hours) additional electives from the College of Business and/or the Department of Economics:
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Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Horticulture and Landscape Management Sequence
Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulate to an IAI core requirement.
Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
___ 3  C2 900  COM 110  Communication as Critical Inquiry
___ 3  C1 900  ENG 101 or ENG 101A10  Composition as Critical Inquiry
___ 3  C1 901  ENG 145  Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options
___ 4  M1 906  MAT 120 Finite Math

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
___ 4-5  P1 902  CHE 110 Fundamentals of Chemistry and CHE 112 Lab
or P1 902L  CHE 140 General Chemistry I
___ 4  L1 910L  BSC 196 Biological Diversity or BSC 197 Molecular/Cellular Basis of Life

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required
___  ___  ______________________________________________
___  ___  ______________________________________________
___  ___  ______________________________________________

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented
___ 3  S3 901  Principles of Macroeconomics
___ 3  S3 902  Principles of Microeconomics
___  ___  ______________________________________________

Additional Graduation Requirements
____/120 minimum total credit hours
____/42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.
___ 4  AGR 157  Soil Science

Major (min. 59 credit hours)
___ 3  AGR 109  Introduction to the Agriculture Industry
___ 3  AGR 110  Introductory Agricultural Economics
___ 3  AGR 120  Introductory Horticulture
___ 3  AGR 130  Introduction to Agricultural Engineering Technology
___ 4  AGR 157  Soil Science (P: CHE 102 or 110 or 140)
___ 3  ACC 131  Financial Accounting (P: 12+ earned hours)
___ 4  ECO 105  Principles of Economics
___ 3  FIL 185  Legal, Ethical, & Social Environment of Business (P: 15+ earned hours; ECO 103 or 105)
___ 4  MAT 120  Finite Mathematics (P: C or better in MAT 119 or placement)

Choose 1 of the following options:
___ 4/1  CHE 110/112  Fundamentals of Chemistry & Laboratory
___ 4  CHE 140  General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Take 1 of the following courses; AGR 150 preferred:
___ 4  AGR 150  Principles of Agronomy
___ 4  BSC 196  Biological Diversity
___ 4  BSC 197 Molecular & Cellular Basis of Life

Take 4 (12 credit hours) additional Agriculture electives:
(AGR 252, 253, 254, 255, 256, 257, 260, 262, 352, 353, 355, 356)
___  ___  ______________________________________________
___  ___  ______________________________________________
___  ___  ______________________________________________

Take 3 (9 credit hours) additional electives from the College of Business and/or the Department of Economics:
___  ___  ______________________________________________
___  ___  ______________________________________________
___  ___  ______________________________________________

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
**MAJOR IN AGRICULTURE (B.S.)**

**Pre-Veterinary Medicine Sequence**

**General Education (39 credit hours)**
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

**Communication and Composition (2 courses required)**
- 3 COM 110 Communication as Critical Inquiry
- 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

**Mathematics (1 course required)**
Please see major requirements for math options

**Natural Science/Natural Science Alternatives (2 courses required)**
Students must complete 1 course from 2 different sciences. Please see major requirements for science options.
- 4 BSC 196 Biological Diversity
- 4 CHE 140 General Chemistry I

**United States Traditions (1 course required)**

**Individuals & Civic Life (1 course required)**

**Fine Arts (1 course/3 credit hours required)***

**Humanities (1 course required)***

**Language in the Humanities (1 course required)***

**Quantitative Reasoning for B.S. or LAN 115 for B.A. (1 course required)**
Exempt for Agriculture majors

**Science, Math, & Technology (1 course required)**

**Social Sciences (1 course required)***

**Additional Graduation Requirements**
- \( 120 \text{ minimum total credit hours} \)
- \( 42 \text{ minimum senior college hours} \)

**AMALI requirement**
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

**B.S. Science, Math, & Technology (1 course required)**
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

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**Major (min. 71 credit hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR 109</td>
<td>Introduction to the Agriculture Industry</td>
</tr>
<tr>
<td>AGR 170</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>AGR 173</td>
<td>Working With Domestic Animals (P: AGR 170 or conc. reg.)</td>
</tr>
<tr>
<td>AGR 272</td>
<td>Agricultural Genetics</td>
</tr>
<tr>
<td>AGR 275</td>
<td>Introduction to Animal Nutrition (P: AGR 170)</td>
</tr>
<tr>
<td>AGR 282</td>
<td>Anatomy &amp; Physiology of Livestock &amp; Companion Animals I (P: AGR 170 and BSC 196 or 197)</td>
</tr>
<tr>
<td>AGR 283</td>
<td>Reproductive Physiology of Livestock</td>
</tr>
<tr>
<td>AGR 286</td>
<td>Behavior of Domestic Animals</td>
</tr>
<tr>
<td>AGR 380</td>
<td>Current Issues in the Livestock Industry (P: AGR 170, 173, 272, 275, 282, 283, 286; 75+ earned or in progress hours)</td>
</tr>
<tr>
<td>BSC 196</td>
<td>Biological Diversity</td>
</tr>
<tr>
<td>BSC 197</td>
<td>Molecular &amp; Cellular Basis of Life</td>
</tr>
<tr>
<td>CHE 140</td>
<td>General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)</td>
</tr>
<tr>
<td>CHE 141</td>
<td>General Chemistry II (P: CHE 140)</td>
</tr>
<tr>
<td>CHE 230</td>
<td>Organic Chemistry I (P: CHE 141)</td>
</tr>
<tr>
<td>CHE 231</td>
<td>Organic Chemistry Laboratory (P: CHE 141; conc. reg. in CHE 230)</td>
</tr>
</tbody>
</table>

**Take 1 of the following courses:**
- 3 AGR 110 Introductory Agricultural Economics
- 3 AGR 120 Introductory Horticulture
- 3 AGR 130 Introduction to Agricultural Engineering Technology
- 4 AGR 150 Principles of Agronomy
- 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)

**Choose 1 of the following options:**
- 2 AGR 381A01 Livestock Industry: Beef Cattle (P: AGR 170, 173, 272, 275, 282, 283, 386 or conc. reg.)
- 2 AGR 381A03 Livestock Industry: Swine (P: AGR 170, 173, 272, 275, 282, 283, 386 or conc. reg.)
- 2 AGR 398 Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

**Take 1 of the following courses:**
- 3 CHE 242 Basic Biochemistry (P: 1 semester of organic chemistry)
- 3 CHE 342 General Biochemistry I (P: C or better in CHE 232 or 1 year of organic chemistry)

**Take 1 of the following courses:**
- 4 BSC 196 Biological Diversity
- 4 BSC 197 Molecular & Cellular Basis of Life

**Choose 1 of the following options:**
- 5/5 PHY 108 College Physics I AND PHY 109 College Physics II (P: PHY 108 or 110)
- 4/4 PHY 110 Physics for Science & Engineering I (P: MAT 145 or conc. reg.) AND PHY 111 Physics for Science & Engineering II (P: PHY 110 and MAT 146 or conc. reg.)

**Take 1 of the following courses:**
- 4 MAT 144 Precalculus (P: C or better in MAT 119 & 108 or placement)
- 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

**Take 4 credit hours of additional Animal Science electives:**
Please consult your academic advisor.

**Agriculture (AGR) Courses:**
[https://coursefinder.illinoisstate.edu/directory/agr/](https://coursefinder.illinoisstate.edu/directory/agr/)

**Directory of all courses:**
[https://coursefinder.illinoisstate.edu/directory/](https://coursefinder.illinoisstate.edu/directory/)
MAJOR IN AGRICULTURE (B.S.)

PRE-VETERINARY MEDICINE SEQUENCE

Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

- 3 C2 900 COM 110 Communication as Critical Inquiry
- 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
- 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options

- 4 M1 900-1 MAT 145 Calculus I (College-level Calculus I)

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

- 4 P1 902L CHE 140 General Chemistry I
- 4 L1 910L BSC 196 Biological Diversity and
  BSC 197 Molecular & Cellular Basis of Life

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required

- — —
- — —
- — —

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented

- — —
- — —
- — —

Additional Graduation Requirements

- —

- 120 minimum total credit hours
- 42 minimum senior college hours

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

- — —

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

- — —

Major (min. 71 credit hours)

- 3 AGR 109 Introduction to the Agriculture Industry
- 3 AGR 170 Introduction to Animal Science
- 2 AGR 173 Working With Domestic Animals (P: AGR 170 or conc. reg.)
- 3 AGR 272 Agricultural Genetics
- 4 AGR 275 Introduction to Animal Nutrition (P: AGR 170)
- 3 AGR 282 Anatomy & Physiology of Livestock & Companion Animals I (P: AGR 170 and BSC 196 or 197)
- 3 AGR 283 Reproductive Physiology of Livestock
- 3 AGR 286 Behavior of Domestic Animals
- 3 AGR 380 Current Issues in the Livestock Industry (P: AGR 170, 173, 272, 283, 286; 75+ earned or in progress hours)
- 4 BSC 196 Biological Diversity
- 4 BSC 197 Molecular & Cellular Basis of Life
- 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or conc. reg.)
- 4 CHE 141 General Chemistry II (P: CHE 140)
- 3 CHE 230 Organic Chemistry I (P: CHE 141)
- 1 CHE 231 Organic Chemistry Laboratory (P: CHE 141; conc. reg. in CHE 230)

Take 1 of the following courses:

- 3 AGR 110 Introductory Agricultural Economics
- 3 AGR 120 Introductory Horticulture
- 3 AGR 130 Introduction to Agricultural Engineering Technology
- 4 AGR 150 Principles of Agronomy
- 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)

Choose 1 of the following options:

- 2 AGR 381A01 Livestock Industry: Beef Cattle (P: AGR 170, 173, 272, 275, 283, 286, 380 or conc. reg.)
- 2 AGR 381A03 Livestock Industry: Swine (P: AGR 170, 173, 272, 275, 282, 283, 380 or conc. reg.)
- 2 AGR 398 Professional Practice: Internship in Agriculture (P: 2.5 GPA; 8 hours of course work in intern area; approved application)

Take 1 of the following courses:

- 3 CHE 242 Basic Biochemistry (P: 1 semester of organic chemistry)
- 3 CHE 342 General Biochemistry I (P: C or better in CHE 232 or 1 year of organic chemistry)

Take 1 of the following courses:

- 4 BSC 196 Biological Diversity
- 4 BSC 197 Molecular & Cellular Basis of Life

Choose 1 of the following options:

- 5/5 PHY 108 College Physics I AND PHY 109 College Physics II (P: PHY 108 or 110)
- 4/4 PHY 110 Physics for Science & Engineering I (P: MAT 145 or conc. reg.) AND PHY 111 Physics for Science & Engineering II (P: PHY 110 and MAT 146 or conc. reg.)

Take 1 of the following courses:

- 4 MAT 144 Precalculus (P: C or better in MAT 119 & 108 or placement)
- 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)

Take 4 credit hours of additional Animal Science electives:
Please consult your academic advisor.

Agriulture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN AGRICULTURE (B.S.)
Agriculture Teacher Education Sequence

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
- 3 COM 110 Communication as Critical Inquiry
- 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences. Please see major requirements for science options.

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning for B.S. or LAN 115 for B.A. (1 course required)
Exempt for Agriculture majors

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)***
- 3 PSY 110 Fundamentals of Psychology

Additional Graduation Requirements

Major (min. 74 credit hours)
AGR requirements (42 credit hours)

- 3 AGR 109 Introduction to the Agriculture Industry
- 3 AGR 110 Introductory Agricultural Economics
- 3 AGR 120 Introductory Horticulture
- 3 AGR 130 Introduction to Agricultural Engineering Technology
- 4 AGR 150 Principles of Agronomy
- 4 AGR 157 Soil Science (P: CHE 102 or 110 or 140)
- 3 AGR 170 Introduction to Animal Science
- 2 AGR 173 Working with Domestic Animals (P: AGR 170 or conc. reg.)
- 2 AGR 190 Introduction to Agricultural Education (P: conc. reg. in AGR 191 or 192)
- 1 AGR 191 Introduction to Agricultural Education Teacher Licensure (P: AGR 190 or conc. reg.)
- 3 AGR 205 Microcomputer Applications in Agriculture
- 3 AGR 231 Managing & Teaching in Agricultural & Technology Laboratories (P: AGR 130)
- 3 AGR 295 Summer Internship in Agricultural Education†
- 3 AGR 394 Methods & Procedures in Agricultural Education†
- 2 AGR 395 Professional Seminar in Agricultural Education† (P: STT 399A01 or conc. reg.)

Required courses outside of AGR

Take one of the following courses (BSC 196 preferred):
- 4 BSC 196 Biological Diversity
- 4 BSC 197 Molecular & Cellular Basis of Life

Take one of the following options:
- 4/1 CHE 110/112 Fundamentals of Chemistry & Laboratory
- 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or better in MAT 120 or 144 or 145 or conc. reg.)

Professional Education requirements (24 credit hours)

- 3 PSY 215 Educational Psychology (P: PSY 110 or 111)
- 2 TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major & cum. GPA; ENG 101, COM 110)
- 3 TCH 216 Principles & Practices for Teaching & Learning in Secondary Schools (P: TCH 212; 2.5 major & cum. GPA)
- 3 TCH 219 Integrating Multiple Literacies & Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major & cum. GPA)
- 10 STT 399A01 Student Teaching in Agriculture

Take one of the following courses (P: 45+ earned hours):
- 3 EAF 228 Social Foundations
- 3 EAF 231 Introduction to Philosophy of Education
- 3 EAF 235 Historical Foundations

† Admission to Professional Studies required

Agriculture (AGR) Courses:
https://coursefinder.illinoisstate.edu/directory/agr/

Directory of all courses:
https://coursefinder.illinoisstate.edu/directory/
**MAJOR IN AGRICULTURE (B.S.)**

**AGRICULTURE TEACHER EDUCATION SEQUENCE**

**Transfer Students**

**Illinois Articulation Initiative (min. 37 credit hours)**

To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement.

Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

**Communication and Composition (3 courses required)**

A grade of C or better required in ENG 101 and 145 or equivalents

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<tr>
<td>C2 900 COM 110</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 900 ENG 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 901 ENG 145</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics (1 course required)**

Please see major requirements for mathematics options

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</table>

**Physical & Life Sciences (2 courses/7-8 hours required)**

Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

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<tbody>
<tr>
<td>P1 902 and P1 902L CHE 110/112</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>L1 910L BSC 196 Biological Diversity</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Humanities & Fine Arts (3 courses required)**

At least 1 humanities and 1 fine arts course required

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**Social & Behavioral Sciences (3 courses required)**

2 different disciplines must be represented

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**Additional Graduation Requirements**

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**AMALI requirement**

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**B.S. Science, Math, & Technology (1 course required)**

See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses. See major requirements for course options.

| Course               | Credits | Notes                        |

**Major (min. 74 credit hours)**

**AGR requirements (42 credit hours)**

| Course               | Credits | Notes                        |

**Required courses outside of AGR**

**Take one of the following courses (BCS 196 preferred):**

| Course               | Credits | Notes                        |

**Take one of the following options:**

| Course               | Credits | Notes                        |

**Professional Education requirements (24 credit hours)**

| Course               | Credits | Notes                        |

**Take one of the following courses (P: 45+ earned hours):**

| Course               | Credits | Notes                        |

† Admission to Professional Studies required

**Agriculture (AGR) Courses:**

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