AGRICULTURAL SCIENCES (OSU TRANSFER) EMPHASIS - ASSOCIATE OF SCIENCE (AS)

Description
The Agricultural Sciences (OSU Transfer) Emphasis Associate of Science fulfills many of the lower-division requirements of the Bachelor of Science in Agricultural Sciences at Oregon State University. Course requirements for other agricultural majors at OSU and other universities will differ. Students are strongly encouraged to check current degree requirements for changes.

Statewide General Education Student Learning Outcomes
Upon successful completion of general education courses, students will be able to:

Arts & Letters
1. Interpret and engage in the arts & letters, making use of the creative process to enrich the quality of life; and
2. Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.

Cultural Literacy
1. Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Health
1. Explain the relationship between human behavior and health.

Mathematics
1. Use appropriate mathematics to solve problems; and
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

Science or Computer Science
1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models and solutions and generate further questions;
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science
1. Apply analytical skills to social phenomena in order to understand human behavior; and
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

Speech/Oral Communication
1. Engage in ethical communication processes that accomplish goals;
2. Respond to the needs of diverse audiences and contexts; and
3. Build and manage relationships.

Writing and Information Literacy
1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences;
2. Recognize and articulate the need for information, and then locate, evaluate, and ethically utilize that information to communicate effectively; and
3. Demonstrate appropriate reasoning in response to complex issues.

Entrance Requirements
While this program has no formal entrance requirement, individual courses may have prerequisites which must be met before enrollment.

Course Requirements
(See the baccalaureate core list or use the links below to locate courses.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WR 121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Fundamentals of Public Speaking</td>
<td>3-4</td>
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<tr>
<td>or COMM 114</td>
<td>Argumentation and Critical Discourse</td>
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<tr>
<td>BI 101</td>
<td>General Biology: Cells &amp; Genes</td>
<td>4-5</td>
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<tr>
<td>or BI 211</td>
<td>Principles of Biology</td>
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<tr>
<td>BI 102</td>
<td>General Biology: Evolution</td>
<td>4-5</td>
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<tr>
<td>or BI 212</td>
<td>Principles of Biology</td>
<td></td>
</tr>
<tr>
<td>BI 103</td>
<td>General Biology: Ecology</td>
<td>4-5</td>
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</tbody>
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Perspectives Courses
1. Choose one course from each of the following categories:
   - Physical Science: Met by Program Requirements
   - Biological Science: Met by Program Requirements
   - Physical or Biological Science: Met by Program Requirements
   - Western Culture: 3-4
   - Cultural Diversity: 4
   - Literature and the Arts: 3-4
   - Social Processes and Institutions: Met by Program Requirements

Program Requirements
- Accounting Fundamentals
- General Biology: Cells & Genes
- Principles of Biology
or BI 213 Principles of Biology
CH 104 Introduction to Chemistry I 3 5
or CH 221 General Chemistry I
CH 105 Introduction to Chemistry II 3 5
or CH 222 General Chemistry II
CIS 120 Computer Concepts 4
EC 201 Microeconomics 4
FOR 208 Soils: Sustainable Ecosystems 4
MTH 105 Math in Society (or higher) 4
Recommend: MTH 111
WR 227 Technical Writing 4

Electives
Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend: BA 226, CH 106, CH 223, FOR 260, MFG 100, MFG 103, MTH 111, MTH 112, MTH 241, MTH 251, SPAN 101, SPAN 102

Total Credits 90-96

1 Select from the appropriate category in the OSU Baccalaureate Core course list.
2 No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.
3 Recommend: BI 211 Principles of Biology, BI 212 Principles of Biology and BI 213 Principles of Biology and CH 221 General Chemistry I, CH 222 General Chemistry II and CH 223 General Chemistry III.

Advising Notes
Transferrable from OSU E-Campus

• AG 242 Personal Leadership Development 3
• ANS 121 Introduction to Animal Science 4
• AREC 221 Marketing in Agriculture 3
• AREC 250 Introduction to Environmental Economics and Policy 3
• HORT 111 Introduction to Horticultural Crop Production 2
• HORT 112 Intro. to Horticultural Systems, Practices and Careers 2

Students are encouraged to take BI 211 Principles of Biology, BI 213 Principles of Biology, and BI 212 Principles of Biology in that sequence with CH 221 General Chemistry I taken before or concurrently with BI 211 Principles of Biology. Students are also encouraged to take MTH 241 Calculus for Management/Social Science or MTH 251 Calculus I. The FOR 208 Soils: Sustainable Ecosystems is a Spring term course that may be occasionally offered during Fall term.

Performance Standards

• Academic Requirements:
  • Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

Sample Plan

First Term
CIS 120 Computer Concepts 4
Elective 4
MTH 111 College Algebra 4
WR 121 Academic Composition 4

Credits 16

Second Term
COMM 111 or COMM 114 Fundamentals of Public Speaking 3-4
Elective 4
Western Culture: Argumentation and Critical Discourse 3-4
WR 227 Technical Writing 4

Credits 14-16

Third Term
BA 217 Accounting Fundamentals 4
EC 201 Microeconomics 4
Elective 4
HHP 295 Health and Fitness 3

Credits 15

Fourth Term
BI 211 Principles of Biology 5
CH 221 General Chemistry I 5

Credits 14

Fifth Term
BI 213 Principles of Biology 5
CH 222 General Chemistry II 5
Elective 4

Literature and the Arts: 3-4

Credits 17-18

Sixth Term
BI 212 Principles of Biology 5
FOR 208 Soils: Sustainable Ecosystems 4
Elective 4

Credits 17

Total Credits 93-96