# Agricultural Sciences Undergraduate Major (BS, HBS)

Also available at LaGrande and via Ecampus.

Major Code: 259

- Demonstrate professional skills/competencies and ability to adapt to diverse audiences and diverse work environments.
- Demonstrate an ability to apply scientific, and computer literacy knowledge.
- Analyze and communicate effectively how agricultural sciences integrate with contemporary, social, economic, political, and environmental issues.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AEC 211</td>
<td>AGRICULTURAL AND FOOD MANAGEMENT</td>
<td>4</td>
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<tr>
<td>AG 111</td>
<td>INFORMATION TECHNOLOGY IN AGRICULTURE</td>
<td>3</td>
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<tr>
<td>AG 421</td>
<td>*WRITING IN AGRICULTURE</td>
<td>3</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>SOIL 205</td>
<td>SOIL SCIENCE and *SOIL SCIENCE LABORATORY FOR SOIL 205 (Corvallis)</td>
<td>4</td>
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<tr>
<td>CSS 205</td>
<td>*SOIL SCIENCE (Ecampus)</td>
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<tr>
<td>CSS 305</td>
<td>PRINCIPLES OF SOIL SCIENCE (EOU)</td>
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Select 9-12 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AED 235</td>
<td>INTRODUCTION TO AGRICULTURAL EDUCATION</td>
<td>9-12</td>
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<tr>
<td>AED 313</td>
<td>THEORY AND PRACTICUM III: FIELD</td>
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<td>AED 325</td>
<td>PLANNING AND DELIVERING NON-FORMAL AGRICULTURAL EDUCATION</td>
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<tr>
<td>AG 199</td>
<td>SPECIAL STUDIES (Orientation to Agricultural Sciences Major)</td>
<td></td>
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<tr>
<td>AG 221</td>
<td>METALS AND WELDING</td>
<td></td>
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<tr>
<td>AG 230</td>
<td>INTRODUCTION TO EXTENSION AND ENGAGEMENT</td>
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<td>AG 301</td>
<td>*ECOSYSTEM SCIENCE OF PACIFIC NW INDIANS</td>
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<tr>
<td>AG 311</td>
<td>NATIVE AMERICAN AGRICULTURE</td>
<td></td>
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<td>AG 312</td>
<td>ENGINE THEORY AND OPERATION</td>
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<tr>
<td>AG 318</td>
<td>ACCESSING INFORMATION FOR AGRICULTURAL RESEARCH</td>
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<tr>
<td>AG 351</td>
<td>*COMMUNICATING AGRICULTURE TO THE PUBLIC</td>
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<td>AG 391</td>
<td>FARM IMPLEMENTS</td>
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<tr>
<td>AG 410</td>
<td>INTERNSHIP</td>
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<tr>
<td>AG 412</td>
<td>AG SAFETY AND HEALTH</td>
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<tr>
<td>AG 435</td>
<td>PROFESSIONAL PRESENTATIONS IN AGRICULTURE</td>
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<tr>
<td>AG 445</td>
<td>*SOCIAL MEDIA ADVOCACY IN AGRI SCIENCES &amp; NATURAL RESOURCES</td>
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<tr>
<td>AG 455</td>
<td>*RISK AND CRISIS COMMUNICATIONS IN AG SCI &amp; NATURAL RESOURCES</td>
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<tr>
<td>AG 492</td>
<td>TECHNOLOGY TRANSFER IN AGRICULTURE</td>
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<tr>
<td>AG 499</td>
<td>SPECIAL TOPICS</td>
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<tr>
<td>AGRI 399</td>
<td>SPECIAL TOPICS (Navigating Global Experiences)</td>
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</table>

Select 60 credits of Agricultural electives (may include above, 24 of which must be upper division):

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<tbody>
<tr>
<td>AEC 253</td>
<td>*ENVIRONMENTAL LAW, POLICY, AND ECONOMICS</td>
<td>4</td>
</tr>
<tr>
<td>AEC 388</td>
<td>AGRICULTURAL LAW</td>
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<tr>
<td>BA 315</td>
<td>ACCOUNTING FOR DECISION MAKING</td>
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<tr>
<td>BA 330</td>
<td>LEGAL ENVIRONMENT OF BUSINESS</td>
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## Communication

Select one course from the following:

- AG 351 *COMMUNICATING AGRICULTURE TO THE PUBLIC
- AG 435 PROFESSIONAL PRESENTATIONS IN AGRICULTURE
- AG 445 *SOCIAL MEDIA ADVOCACY IN AGRI SCIENCES & NATURAL RESOURCES
- AG 455 *RISK AND CRISIS COMMUNICATIONS IN AG SCI & NATURAL RESOURCES

Any COMM/WR course (if WR, must be above WR 115)

## Humanities, Arts and Social Sciences

Select one course from the following:

- AEC 250 *INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY
- AEC 251 *INTRODUCTION TO AGRICULTURAL AND FOOD ECONOMICS
- ECON 201 *INTRODUCTION TO MICROECONOMICS

## Sciences - Physical and Biological

### Physical Science - Chemistry

- CH 121 GENERAL CHEMISTRY 5
- CH 122 *GENERAL CHEMISTRY 5

### Biological Sciences – One-Year Series

Select one of the following series:

- BI 221 & BI 222 & BI 223 *PRINCIPLES OF BIOLOGY: CELLS
- BI 221 & BI 222 & BI 223 *PRINCIPLES OF BIOLOGY: ORGANISMS
- BI 221 & BI 222 & BI 223 *PRINCIPLES OF BIOLOGY: POPULATIONS

### Alternative Series

- BI 101 & BI 102 & BI 103 *ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE
- BI 101 & BI 102 & BI 103 *ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE
- BI 101 & BI 102 & BI 103 *HUMAN BIOLOGY: ANATOMY, PHYSIOLOGY AND DISEASE

### Online Series

- BI 204 & BI 205 & BI 206 *INTRODUCTORY BIOLOGY I
- BI 204 & BI 205 & BI 206 *INTRODUCTORY BIOLOGY II
- BI 204 & BI 205 & BI 206 *INTRODUCTORY BIOLOGY III

## Leadership and Engagement

Select one course from the following:

- AG 230 INTRODUCTION TO EXTENSION AND ENGAGEMENT
- LEAD 242 PERSONAL LEADERSHIP DEVELOPMENT
- LEAD 342 TEAM AND ORGANIZATIONAL LEADERSHIP
- LEAD 360 (*Traditions of OSU: What it Means to Be a Beaver Leader (pending approval))
- LEAD 442 LEADERSHIP SKILLS FOR CAREER SUCCESS
- LEAD 443 LEADERSHIP THROUGH CONVERSATIONS

## Math

- MTH 111 *COLLEGE ALGEBRA 4

## Electives

48-52

Total credits required for graduation is 180

| Total Credits | 170-178 |

* Baccalaureate Core Course (BCC)
^ Writing Intensive Course (WIC)

A minimum of 45 of these elective credits must come from College of Agricultural Sciences. Remaining credits may be approved from other disciplines, to reach 60 total Ag Science electives

Major Code: 259
## Agricultural Sciences Undergraduate Major (BS, HBS)

### First Year

#### Fall

- **AG 199** SPECIAL STUDIES (Orientation Ag Sci Major) 1
- **BI 221** *PRINCIPLES OF BIOLOGY CELLS 4
  - or **BI 204** INTRODUCTORY BIOLOGY I 4
- **MTH 111** COLLEGE ALGEBRA 4
- **WR 121** ENGLISH COMPOSITION 3

**Credits**: 12

#### Winter

- **AG 111** INFORMATION TECHNOLOGY IN AGRICULTURE 3
- **BI 222** *PRINCIPLES OF BIOLOGY ORGANISMS 4
  - or **BI 205** INTRODUCTORY BIOLOGY II 4
- **COMM 111** *PUBLIC SPEAKING 3
  - or **COMM 114** ARGUMENT AND CRITICAL DISCOURSE 3
- **HHS 231** *LIFETIME FITNESS FOR HEALTH 2
- Elective-Any College of Agricultural Sciences course 3

**Credits**: 15

### Second Year

#### Fall

- **AEC 251** *INTRODUCTION TO AGRICULTURAL AND FOOD ECONOMICS 3
- **CH 121** GENERAL CHEMISTRY 5
- **SOIL 205** SOIL SCIENCE 3
- **SOIL 206** *SOIL SCIENCE LABORATORY FOR SOIL 205 1
- Elective-Any College of Agricultural Sciences course 3

**Credits**: 15

#### Winter

- **AEC 211** AGRICULTURAL AND FOOD MANAGEMENT 4
- **AG 230** INTRODUCTION TO EXTENSION AND ENGAGEMENT 3
- **AG 301** *ECOSYSTEM SCIENCE OF PACIFIC NW INDIANS 3
- **CH 122** *GENERAL CHEMISTRY 5

**Credits**: 15

#### Spring

- **LEAD 342** *TEAM AND ORGANIZATIONAL LEADERSHIP 3
- Bacc Core-WIC 3
- Bacc Core-CD 3
- Elective for major 3
- Any PAC course 1

**Credits**: 15

### Third Year

#### Fall

- **AEC 388** AGRICULTURAL LAW 4
- **AG 311** *NATIVE AMERICAN AGRICULTURE 4
- Elective-Any College of Agricultural Sciences course 3
- Elective-Any College of Agricultural Sciences course 3

**Credits**: 17

#### Winter

- **AG 351** *COMMUNICATING AGRICULTURE TO THE PUBLIC 3
- **BA 315** ACCOUNTING FOR DECISION MAKING 4

**Credits**: 15

### Fourth Year

#### Fall

- **AG 391** FARM IMPLEMENTS 3
- Upper-Division Electives-College of Agricultural Sciences course 3
- Upper-Division Electives-College of Agricultural Sciences course 3
- Upper-Division Electives-College of Agricultural Sciences course 3
- Upper-Division Electives-College of Agricultural Sciences course 4

**Credits**: 16

#### Winter

- **AG 421** *WRITING IN AGRICULTURE 3
- **AGRI 438** EXPLORING WORLD AGRICULTURE 2
- Upper-Division Electives-College of Agricultural Sciences course 3
- Upper-Division Electives-College of Agricultural Sciences course 4
- Upper-Division Electives-College of Agricultural Sciences course 4

**Credits**: 16

#### Spring

- Electives 3
- Electives 3
- Electives 4
- Electives 4

**Credits**: 14

**Total Credits**: 181-185

* Baccalaureate Core Course (BCC)  
^ Writing Intensive Course (WIC)