

AGRICULTURAL SCIENCES UNDERGRADUATE MAJOR (BS, HBS)

This program is available at the following locations:

- Corvallis
- Ecampus
- LaGrande

The Agricultural Sciences major gives you the freedom to design your own degree! As part of the degree program, you can choose from various agricultural-based credits and electives. You can go broad with exposure to all areas of agriculture, go deep within two or more emphasis areas – or do a combination of both.

Our major allows you to customize your degree and take courses from different areas throughout our College of Agricultural Sciences. The agricultural sciences major allows our students to create a purposeful course plan, crossing several areas of study, to meet their individual career goals. Students use this major to prepare to return to their family operation, teach agriculture, develop agricultural communications materials, work in Extension, go into industry, sell equipment/insurance, start their own businesses, or work for state or federal agricultural programs.

Major Code: 259

Upon successful completion of the program, students will meet the following learning outcomes:

- 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.

Code	Title	Credits
Agricultural Core		
AEC 211	AGRICULTURAL AND FOOD MANAGEMENT	4
AG 111	INFORMATION TECHNOLOGY IN AGRICULTURE	3
AG 311	+*INDIGENOUS AGRICULTURE AND SUBSISTENCE	3
or FW 340	+*POWER AND JUSTICE IN U.S. NATURAL RESOURCE MANAGEMENT	
or SUS 331	+*SUSTAINABILITY, JUSTICE, AND ENGAGEMENT	
AG 421	*WRITING IN AGRICULTURE	3
LEAD 242	+PERSONAL LEADERSHIP DEVELOPMENT	3
Select one of the following:		3-4
CSS 205	+*SOIL SCIENCE	
SOIL 205	SOIL SCIENCE	
& SOIL 206	and +*SOIL SCIENCE LABORATORY FOR SOIL 205	
Skills & Traits in Agriculture		
Select 9-12 credits from the following: ¹		9-12
AED 235	INTRODUCTION TO AGRICULTURAL EDUCATION	
AED 313	EARLY FIELD EXPERIENCE	
AED 325	PLANNING AND DELIVERING NON-FORMAL AGRICULTURAL EDUCATION	
AG 200	ORIENTATION TO THE AGRICULTURAL SCIENCES MAJOR	

AG 201	+*INDIGENOUS ECOSYSTEM SCIENCES IN PACIFIC NORTHWEST REGIONS	
AG 230	INTRODUCTION TO EXTENSION AND ENGAGEMENT	
AG 321	*WOMEN IN AGRICULTURE	
AG 391	FARM IMPLEMENTS	
AG 412	AG SAFETY AND HEALTH	
AGCM 351	COMMUNICATING AGRICULTURE & NATURAL RESOURCES ISSUES	
AGCM 445	SOCIAL MEDIA ADVOCACY IN AGRICULTURE & NATURAL RESOURCES	
AGCM 455	*RISK AND CRISIS COMMUNICATIONS IN AG SCI & NATURAL RESOURCES	
College of Agricultural Sciences Electives		
Select 60 credits of Agricultural electives (may include above, 24 of which must be upper division) ²		60
Business and Law		
BA 315	ACCOUNTING FOR DECISION MAKING	4
or ST 243Z	+ELEMENTARY STATISTICS I	
Select one course from the following:		4
AEC 253	*ENVIRONMENTAL LAW, POLICY, AND ECONOMICS	
AEC 388	AGRICULTURAL LAW	
BA 226Z	INTRODUCTION TO BUSINESS LAW	
Communication		
Select one course from the following:		3
AGCM 250	+ADVANCEMENT & CONSUMPTION OF AGRICULTURAL & NATURAL RESOURCES MEDIA	
AGCM 351	COMMUNICATING AGRICULTURE & NATURAL RESOURCES ISSUES	
AGCM 445	SOCIAL MEDIA ADVOCACY IN AGRICULTURE & NATURAL RESOURCES	
AGCM 455	*RISK AND CRISIS COMMUNICATIONS IN AG SCI & NATURAL RESOURCES	
Any COMM or WR course (if WR, must be above WR 121Z)		
Introductory Applied Economics		
Select one course from the following:		4
AEC 250	+*INTRODUCTION TO ENVIRONMENTAL ECONOMICS AND POLICY	
AEC 251	+*INTRODUCTION TO AGRICULTURAL AND FOOD ECONOMICS	
ECON 201Z	+*PRINCIPLES OF MICROECONOMICS	
Sciences - Physical and Biological		
<i>Physical Science - Chemistry</i>		
CH 121	+GENERAL CHEMISTRY	5
CH 122	*GENERAL CHEMISTRY	5
<i>Biological Sciences – One-Year Series</i>		
Select one of the following series:		12-15
Preferred Series		
BI 221Z	+*PRINCIPLES OF BIOLOGY: CELLS	
& BI 222Z	and +*PRINCIPLES OF BIOLOGY: ORGANISMS	
& BI 223Z	and +*PRINCIPLES OF BIOLOGY: ECOLOGY AND EVOLUTION	
Alternate Series		
BI 101	+*ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE	
& Z 102	and +*ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE	
& BI 103	and +*HUMAN BIOLOGY: THE HUMAN BODY, HEALTH AND DISEASE	
Online Series		
BI 204	+*INTRODUCTORY BIOLOGY I	
& BI 205	and +*INTRODUCTORY BIOLOGY II	
& BI 206	and +*INTRODUCTORY BIOLOGY III	
Leadership and Engagement		
Select one course from the following:		3
LEAD 252	*MULTICULTURAL LEADERSHIP	
LEAD 262	+*TEAM AND ORGANIZATIONAL LEADERSHIP	

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LEAD 442	LEADERSHIP SKILLS FOR CAREER SUCCESS	
LEAD 443	LEADERSHIP THROUGH CONVERSATIONS	
Math		
MTH 111Z	+*PRECALCULUS I: FUNCTIONS	4
Remaining Core Ed and Electives		72-80
Total Credits		180

* Baccalaureate Core course. Applies to general education requirements for undergraduate students in a catalog year up to 2024-2025

+ Core Education course. Applies to general education requirements for undergraduate students in catalog year 2025-2026 and beyond

^ Writing Intensive Curriculum (WIC) course

¹ Blanket and special topics courses, such as AG 410, AG 499 and LEAD 407, may be accepted with advisor approval

² A minimum of 45 of these elective credits must come from the College of Agricultural Sciences. Remaining credits may be approved from other colleges, to reach 60 total agricultural elective credits

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Degree plans are subject to change and the following is only an example of how students may complete their degree in four years. Students should consult their advisor to determine the best degree plan for them. Contact details for advisors can be found on the Academic Advising (<https://catalog.oregonstate.edu/advising/>) page.

First Year

Fall		
BI 221Z	+*PRINCIPLES OF BIOLOGY: CELLS	4-5
or BI 101	or +*ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE	
or BI 204	or +*INTRODUCTORY BIOLOGY I	
MTH 111Z	+*PRECALCULUS I: FUNCTIONS	4
WR 121Z	+*COMPOSITION I	4
Core Ed: Transitions		2
Credits		15

Winter

AG 111	INFORMATION TECHNOLOGY IN AGRICULTURE	3
BI 222Z	*PRINCIPLES OF BIOLOGY: ORGANISMS	4-5
or Z 102	or +*ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE	
or BI 205	or +*INTRODUCTORY BIOLOGY II	
College of Agricultural Sciences Elective		3
College of Agricultural Sciences Elective		3
Credits		14

Spring

BI 223Z	*PRINCIPLES OF BIOLOGY: ECOLOGY AND EVOLUTION	4-5
or BI 103	or +*HUMAN BIOLOGY: #THE HUMAN BODY, HEALTH AND DISEASE	
or BI 206	or +*INTRODUCTORY BIOLOGY III	
LEAD 242	+PERSONAL LEADERSHIP DEVELOPMENT	3
Core Ed: Communication, Media & Society		3-4
Core Ed: Difference, Power & Oppression Foundations		3-4
Credits		16

Second Year

Fall		
CH 121	+GENERAL CHEMISTRY	5
Introductory Applied Economics		4
College of Agricultural Sciences Elective		4
Core Ed: Arts & Humanities General		3-4
Credits		17

Winter

AEC 211	AGRICULTURAL AND FOOD MANAGEMENT	4
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CH 122	*GENERAL CHEMISTRY	5
Skills & Traits Course		3
Core Ed: Arts & Humanities Global		3-4
Credits		15

Spring

SOIL 205 & SOIL 206	SOIL SCIENCE	3
or CSS 205	or +*SOIL SCIENCE	
or AG 230	or INTRODUCTION TO EXTENSION AND ENGAGEMENT	
College of Agricultural Sciences Elective		3
Leadership and Engagement Course		3
Communication Course		3
Skills & Traits Course		3
Credits		15

Third Year

Fall

Skills & Traits Course		3
Skills & Traits Course		3
College of Agricultural Sciences Elective		3
College of Agricultural Sciences Elective		3
Credits		12

Winter

AEC 253	*ENVIRONMENTAL LAW, POLICY, AND ECONOMICS	4
or AEC 388	or AGRICULTURAL LAW	
or BA 226Z	or INTRODUCTION TO BUSINESS LAW	
BA 315	ACCOUNTING FOR DECISION MAKING	4
or ST 243Z	or +ELEMENTARY STATISTICS I	
College of Agricultural Sciences Elective		3
College of Agricultural Sciences Elective		3
Credits		14

Spring

AG 311	+*INDIGENOUS AGRICULTURE AND SUBSISTENCE	3
or FW 340	or +*POWER AND JUSTICE IN U.S. NATURAL RESOURCE MANAGEMENT	
or SUS 331	or +*SUSTAINABILITY, JUSTICE, AND ENGAGEMENT	
College of Agricultural Sciences Elective		4
College of Agricultural Sciences Elective		4
Core Ed: Writing Elevation		3-4
Credits		15

Fourth Year

Fall

Elective		4
Elective		3
Elective		3
Elective		3
Core Ed: Seeking Solutions		3-4
Credits		16

Winter

AG 421	*WRITING IN AGRICULTURE	3
Elective		4
Elective		4
Elective		4
Credits		15

Spring

Elective		3
Elective		3
Elective		4
Elective		3
Elective		3
Credits		16

Total Credits 180

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