

# AGRICULTURAL EDUCATION, COMMUNICATION, AND SCIENCES

Welcome to the Department of Agricultural Education, Communication, and Sciences (<https://agsci.oregonstate.edu/ag-ed/department-agricultural-education-and-agricultural-sciences>)! We are all about helping you shape the future of agriculture through the power of people, ideas, and connection. Here, you'll build knowledge and skills in crop, livestock, and land systems, along with education, communication, and leadership —key areas that drive meaningful change in agriculture and natural resources.

Whether you're interested in communication, production agriculture, education, or outreach, you'll shape an academic path aligned with your goals and interests. You can choose from our Agricultural Sciences undergraduate major or our new Agricultural and Natural Resources Communication undergraduate major. We also offer graduate programs, including an M.S. in Agricultural Education and a Ph.D. in Education (with an Agricultural Education focus, in partnership with the College of Education), along with multiple minors and certificates to help you customize your experience.

You don't need a background in agriculture to get started, just curiosity and a passion to learn about an industry that feeds, fuels, and sustains the world. Along the way, you'll work closely with faculty and advisors to build a plan that connects your interests to real career opportunities.

This is where agriculture meets production, people, purpose, and possibility.

## Undergraduate Opportunities

Looking for a degree that fits *you*? In the Dept. of Agricultural Education, Communication, and Sciences, you can choose a path that aligns with your interests, goals, and career plans. No matter which degree or minor you choose, you'll have the flexibility to tailor your experience to your interests and professional goals. Whether you're coming straight from high school, transferring from a community college or from a different institution, you can jump into the Agricultural Sciences major or the Agricultural & Natural Resources Communication major, no prior agricultural experience required!

Students in our programs go on to careers in farming and ranching, agricultural business, communication, education, outreach, Extension, policy, sales, and more. Whether you're returning to a family operation, pursuing graduate school, starting your own business, or still exploring your options, these two majors are designed to meet you where you are.

## Agricultural Sciences Major (AG)

Our Agricultural Sciences major (<https://agsci.oregonstate.edu/ag-ed/degrees/undergraduate-agricultural-sciences-major>) is offered as a Bachelor of Science (B.S) degree and is available on-campus, through Ecampus, and at Eastern Oregon University's La Grande campus, offering flexibility to design a program that works for you. You'll learn from expert faculty across the College of Agricultural Sciences while exploring a wide range of areas, including agricultural production, innovation, agribusiness, communication, education, natural resource management, and ranch & livestock systems. This is agriculture science, done your way.

## Career Opportunities in Agricultural Sciences

Agricultural Sciences graduates build careers rooted in the day-to-day work of agriculture. Many return to family farms and ranches or manage production operations, while others move into agribusiness, sales, and farm and ranch management. Graduates also work in Extension, policy, and agricultural organizations across the public and private sectors, or continue to graduate degrees in fields like Agricultural Education.

## Agricultural and Natural Resources Communication Major (AGCM)

Our developing Agricultural and Natural Resources Communication (ANRC) major (<https://agsci.oregonstate.edu/agricultural-natural-resources-communication>) is offered as both a Bachelor of Science (B.S.) and Bachelor of Arts (B.A.) degree. If you're interested in how agriculture and natural resources are communicated to different audiences, our ANRC major offers a hands-on, creative approach to storytelling and strategic communication. You'll create real-world content such as social media and influence campaigns, photography and video projects, and advocacy messaging, while learning how to translate complex agricultural and environmental topics into clear, engaging stories that connect with diverse audiences and communities. Turn knowledge into stories that connect.

## Career Opportunities in Agricultural and Natural Resources Communication

Agricultural and Natural Resources Communication graduates bring the stories of agriculture and natural resources science to life. From social media campaigns and video production to photography and brand storytelling, they create content that connects people to agriculture and natural resources.

Graduates can pursue careers as communication specialists, content creators, social media managers, and marketing and public relations professionals across agriculture and natural resources industry, nonprofit, government, and media organizations. Some also go on to create their own communication consulting firms and start their own businesses. These communicators play a key role in shaping how agriculture and natural resources is understood by the public.

## Undergraduate Minors

- The **Agricultural Education minor (AED)** is a great fit if you're interested in teaching, outreach, or educational work in agriculture or natural resources. Whether in a classroom, outdoor program, or community setting, you'll build a strong foundation in how people learn. You'll explore hands-on teaching strategies, educational philosophy, and field-based learning experiences that prepare you to engage a variety of audiences. Open to students from any major, this minor (<https://agsci.oregonstate.edu/ag-ed/undergraduate/agricultural-education-minor>) pairs especially well with College of Agricultural Sciences degrees. While it does not lead to teaching licensure, it aligns with prerequisites for the Master of Science in Agricultural Education. Available on campus and through Ecampus.
- The **Agricultural Sciences minor (AG)** is open to students from any major who want to expand their understanding of agriculture and natural resources. Whether you're interested in food systems

or the role agriculture plays in our daily lives, this minor (<https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-general-agriculture/agricultural-sciences-minor/#requirements>) allows you to build a strong foundation in agricultural sciences that can complement careers in areas like agricultural management, sustainability, public outreach, and more. The minor is available both on-campus and through Ecampus, giving you the flexibility to fit it into your academic plan.

- **The Agricultural and Natural Resources Communication minor (AGCM)** helps you build the skills to share agriculture and natural resources stories in clear, creative, and impactful ways. Whether your major is rooted in science, business, or another field, this minor (<https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-general-agriculture/agricultural-sciences-natural-resources-communications-minor/#text>) complements your technical knowledge by preparing you to communicate complex agricultural and natural resources topics to a variety of audiences. You'll create real-world content like infographics, podcasts, and social media to name a few, while developing skills in science translation, storytelling, and strategic communication. The minor is available both on campus and through Ecampus, giving you the flexibility to fit it into your academic plan. This is where land, food, and stories connect.
- **The Leadership minor (LEAD)** is open to students from any major who want to make a positive impact in their communities, careers, and beyond. Major in anything. Minor in leadership ([https://agsci.oregonstate.edu/leadership\\_minor](https://agsci.oregonstate.edu/leadership_minor)). Whether you want to create change, serve others, or grow as a teammate and professional, this minor helps you build the skills to lead with purpose. You'll explore key leadership theories, develop practical skills, and apply what you learn through hands-on experiences like internships and service-learning. Along the way, you'll examine real-world topics such as leadership ethics, culture, and collaboration while gaining tools you can use in any field. Available on campus and through Ecampus, this minor is designed to complement any major and help you create meaningful change in the world around you

## Graduate Degrees

### Master of Science (MS) in Agricultural Education,

The Master of Science (M.S.) in Agricultural Education (<https://agsci.oregonstate.edu/agricultural-education-and-agricultural-sciences/degree/agricultural-education>) prepares you to teach, lead, and engage others in agriculture, food, and natural resources. Through a blend of pedagogy, hands-on learning, and real-world experience, you'll develop the skills to educate diverse audiences in both classroom and community settings.

This program is ideal if you're interested in teaching high school agricultural education or working in non-formal education, such as Extension or outreach programs. It also provides a strong foundation for those who want to continue their education through a Ph.D. in Agricultural Education or teach at the community college level. At the same time, graduates pursue a variety of careers outside of the classroom, including roles in facilitation, industry outreach, and public engagement.

The program is designed as an accelerated one-year degree and includes Oregon teacher licensure for those pursuing school-based agricultural education. You'll work closely with an advisor to build a program of study that aligns with your career goals.

Building relationships. Educating leaders. Empowering communities.

### The Master of Science in Agricultural Education- Accelerated Masters Platform (AMP)

The AMP track might be for you. The AMP program follows the same program of study as the traditional MS degree described above, except for start time and timing of the program. High-achieving undergraduate students (3.25 GPA or higher) can be admitted to the AMP program in their last undergraduate term (if credits and program of study allow) and take graduate credits in place of their last 12-15 undergraduate credits. Those grad credits double-count as graduate and undergraduate credits and exist on both programs of study.

### Ph.D. in Education with a focus in Agricultural Education

The Ph.D. in Education with a focus in Agricultural Education (<https://agsci.oregonstate.edu/ag-ed/phd-program-agricultural-education>) is a collaborative program between the College of Education and the College of Agricultural Sciences, offering a unique and interdisciplinary doctoral experience.

In this program, you'll design an individualized plan of research that builds deep expertise in teaching and learning, grounded in strong theory and hands-on research in agricultural education.

Graduates are well prepared for faculty and leadership roles in higher education, Extension, state and federal agencies, and related industries. Along the way, you'll gain experience in teaching, advising, and professional development that supports your growth as a scholar and educator.

Research it. Teach it. Advance the future of Agricultural Education.

### Agricultural Education Graduate Minor

The Agricultural Education graduate minor (<https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-general-agriculture/agricultural-education-graduate-minor/#text>) provides a strong foundation in teaching and learning for students interested in agriculture and natural resources. You'll explore how to design and deliver effective learning experiences across a variety of settings, including formal classrooms, outreach programs, and outdoor education. Available on campus and through Ecampus, this minor is a flexible way to build teaching skills that complement your graduate degree.

## Undergraduate Programs

Program Name	SIS Code	Degree Types	Campus Locations
Agricultural Education Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-minor/</a> )	077	Minor	Corvallis, Ecampus
Agricultural Sciences and Natural Resources Communications Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-natural-resources-communications-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-natural-resources-communications-minor/</a> )	857	Minor	Corvallis, Ecampus
Agricultural Sciences Major ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-bs-hbs/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-bs-hbs/</a> )	259	BS, HBS	Corvallis, Ecampus, LaGrande
Agricultural Sciences Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-sciences-minor/</a> )	106	Minor	Corvallis, LaGrande
Comparative International Agriculture Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/comparative-international-agriculture-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/comparative-international-agriculture-minor/</a> )	477	Minor	Corvallis, Ecampus
Leadership Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/leadership-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/leadership-minor/</a> )	267	Minor	Corvallis, Ecampus

## Graduate Programs

Program Name	SIS Code	Degree Types	Campus Locations
Agricultural Education Major ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-ms/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-ms/</a> )	1050	MS	Corvallis
Agricultural Education Minor ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-graduate-minor/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/agricultural-education-graduate-minor/</a> )	1050	Minor	Corvallis
Leading and Creating Change Certificate ( <a href="https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/leading-creating-change-graduate-certificate/">https://catalog.oregonstate.edu/college-departments/agricultural-sciences/agricultural-education-communication-sciences/leading-creating-change-graduate-certificate/</a> )	CG27	Certificate	Corvallis, Ecampus

## Department Information

108 Strand Agriculture Hall  
Corvallis, OR 97331  
Phone: 541-737-1336

Department website: <https://agsci.oregonstate.edu/ag-ed/department-agricultural-education-and-agricultural-sciences/>

Below are some of our faculty based on our main focus areas. To see our complete list of faculty and staff, visit our website (<https://agsci.oregonstate.edu/ag-ed/our-people/>).

## Department Head

**Dr. Jonathan Velez**, *Department Head, Professor, Bradshaw Leadership Academy Professorship, and Co-Director of Agricultural Sciences and College of Forestry Leadership Academy*

Email: [jonathan.velez@oregonstate.edu](mailto:jonathan.velez@oregonstate.edu)

Connect with Dr. Velez if you would like to learn about opportunities within the department.

## Agricultural Education

**Dr. Josh Stewart**, *Director of Agriculture Teacher Education Program, Gordon Galbraith Endowed Faculty Scholar in Agricultural Education, and Associate Professor of Agricultural Education*

Email: [josh.stewart@oregonstate.edu](mailto:josh.stewart@oregonstate.edu)

Connect with Dr. Stewart to learn more about the Agricultural Education undergraduate and graduate minors, the M.S. and Ph.D. graduate degrees in Agricultural Education, and opportunities to get involved in research and the program.

## Agricultural & Natural Resources Communication

**Dr. Whitney Stone**, *Assistant Professor and on-campus lead of the Agricultural & Natural Resources Communication Program*

Email: [whitney.stone@oregonstate.edu](mailto:whitney.stone@oregonstate.edu)

Connect with Dr. Stone to learn more about the ANRC minor (<https://agsci.oregonstate.edu/agricultural-sciences-natural-resources-communications-minor/>), ANRC major, undergraduate/graduate research in agricultural and natural resources communication, and ANRC coursework.

**Dr. Taylor Foerster**, *Assistant Professor, Agricultural & Natural Resources Communication* Email: [taylor.foerster@oregonstate.edu](mailto:taylor.foerster@oregonstate.edu)

Connect with Dr. Foerster if you would like to learn more about the ANRC minor, ANRC major, or undergraduate/graduate research involving perceptions and strategic message design in natural resources and agriculture.

## Agricultural Sciences

**Turner Lear**, Agricultural Sciences Instructor

Email: [turner.lear@oregonstate.edu](mailto:turner.lear@oregonstate.edu)

Connect with Turner about questions regarding Agricultural Sciences coursework, career opportunities, and internships.

Leadership

**Dr. Haley Traini**, *Associate Professor and Program Lead of the Leadership Minor*

Email: [haley.traini@oregonstate.edu](mailto:haley.traini@oregonstate.edu)

Connect with Dr. Traini to learn more about Leadership coursework, the Leadership minor ([https://agsci.oregonstate.edu/leadership\\_minor/](https://agsci.oregonstate.edu/leadership_minor/)), graduate opportunities involving Leadership Education, and research involving International Agricultural Education and Leadership Education.

## **Agricultural & Natural Resource Communication (AGCM) AGCM 200, MOBILE AND DRONE PHOTOGRAPHY FOR VISUAL STORYTELLING IN AGRICULTURE AND NATURAL RESOURCES, 2 Credits**

Explores the use of mobile device and drones as tools for capturing compelling visual stories in agriculture and natural resources. Develops foundational and advanced skills in photography, composition, editing, and visual storytelling using mobile phones and drones in agricultural and natural resources contexts.

## **AGCM 210, EXPLORING SOCIAL SCIENCE IN OREGON AGRICULTURE & NATURAL RESOURCES, 3 Credits**

Explore diverse topics, industries, and challenges in agriculture and natural resources in the state of Oregon through the lens of social science. Engage with topics such as local food production, forestry, wildlife and fisheries management and conservation, water resources, ranching, and more. Examine the social elements inherent to complex topics of agriculture and natural resources including but not limited to public perceptions and engagement, communication and education initiatives, and economic factors. Identify social science practice and methodology as valuable tools.

## **AGCM 250, +ADVANCEMENT & CONSUMPTION OF AGRICULTURAL & NATURAL RESOURCES MEDIA, 3 Credits**

Discusses how evolving technology has changed the way agricultural and natural resources communicators reach the public and share about scientific advancements, products, and issues in agriculture and natural resources. Explores how the convergence of multiple forms of media – newspaper, video, radio, and photojournalism – on the internet is impacting how communicators provide information on various topics. Analyzes the field of agricultural and natural resources communications and the impact technological advancements have had on content choices, media selection, and audience engagement within the field.

**Attributes:** CFCM – Core Ed - Communication, Media & Society  
*Available via Ecampus*

## **AGCM 300, DIGITAL MEDIA PRODUCTION IN AGRICULTURE AND NATURAL RESOURCES, 3 Credits**

Explores photography, media literacy, and video production to support education and outreach in agricultural and natural resources contexts. Develop skills to capture compelling images, critically analyze media messages, and produce short educational videos tailored to a general public audience. Communicate visual storytelling, humanizing agriculture and natural resources, ethical representation, and effective use of digital tools to communication science, practices, and issues in agriculture and natural resources to diverse stakeholders.

**Recommended:** Critical thinking, multitasking, and reasoning skills

## **AGCM 351, COMMUNICATING AGRICULTURE & NATURAL RESOURCES ISSUES, 3 Credits**

Explore the communication of agriculture and natural resources topics/issues through a series of communication media. Find and evaluate credible sources to inform the development of key messages. Identify basic principles of written, oral, and visual communication as they relate to public engagement with agricultural science and natural resources issues. Develop foundational agriculture and natural resources communication knowledge and employability skillsets.

**Equivalent to:** AG 351

**Recommended:** AGCM 210 or equivalent agricultural or natural resources science course; evaluation, synthesis, and writing skills

*Available via Ecampus*

## **AGCM 390, +COMMUNICATING WICKED PROBLEMS: LAND SCARCITY, POLICY, & ADVOCACY IN AGRICULTURE & NATURAL RESOURCES, 3 Credits**

Addresses the wicked problem of land scarcity through collaboration of students from diverse disciplines. Develops and communicates actionable responses to real-world challenges through systems thinking, stakeholder engagement, policy analysis, and advocacy strategies. Emphasizes transdisciplinary collaboration, ethical engagement, and influencing change at the intersection of science, society, and sustainability.

**Attributes:** CSSS – Core Ed - Seeking Solutions

## **AGCM 392, AGRICULTURAL AND NATURAL RESOURCES COMMUNICATION WRITING, 3 Credits**

Develops writing skills essential for effective agricultural and natural resources communication. Emphasizes clear, accurate, and engaging writing for diverse audiences through feature stories, press releases, and television and radio writing. Focuses on adapting scientific and technical information, addressing complex issues, and building a professional writing portfolio. Prepares students to communicate effectively and strategically about agricultural and natural resources topics across various media platforms and stakeholder groups.

**Prerequisite:** WR 121Z with C- or better or WR 121HZ with C- or better or WR 121 with C- or better or WR 121H with C- or better

## **AGCM 435, PROFESSIONAL PRESENTATIONS IN AGRICULTURE, 3 Credits**

Learn to effectively create and deliver professional presentations relevant to careers in agriculture and natural resources by developing skills for both formal and informal presentations, using visual aids effectively, and using appropriate strategies to engage various audiences.

**Equivalent to:** AG 435

## **AGCM 445, SOCIAL MEDIA ADVOCACY IN AGRI SCIENCES & NATURAL RESOURCES, 3 Credits**

Through practice and application, develop the ability to communicate effectively in writing using social media and other digital platforms for business purposes, including internal communication, stakeholder engagement, educational messaging, event promotion, and product marketing.

**Equivalent to:** AG 445

## **AGCM 455, \*RISK AND CRISIS COMMUNICATIONS IN AG SCI & NATURAL RESOURCES, 3 Credits**

Examine potential risk and crisis communications scenarios in agriculture, natural resources and environmental sciences, plus the relevant theories, models, and processes involved in addressing these types of situations effectively. Explores the mitigation, management, and response to risks and crises from a communications perspective with special application to natural resources, along with agricultural and environmental sciences, hazardous situations through completing case studies and creating a risk and crisis communications manual.

**Attributes:** CPSI – Bacc Core, Perspectives, Social Processes & Institutions

**Equivalent to:** AG 455

*Available via Ecampus*

## **AGCM 465, AG SCI AND NATURAL RESOURCES COMMUNICATIONS MINOR CAPSTONE, 2 Credits**

Reflect on accumulated knowledge and technical/soft skills gained and conceptualize how to apply communication theories and practices in the context of future agricultural and natural resources careers. Integrate real-life agriculture and natural resources communications scenarios, which will allow for the practice of strategy development, proper implementation, and appropriate assessment methods. Helps package and demonstrate skills verbally and in a portfolio.

**Prerequisite:** AGCM 351 with D- or better or AG 351 with D- or better

**Equivalent to:** AG 465

## **AGCM 580, COMMUNICATING AGRICULTURAL AND LIFE SCIENCES TO THE PUBLIC, 3 Credits**

Focuses on communicating with the public about research-based science in agricultural and life sciences for the purposes of education, influencing public policy, promoting positive agricultural practices and creating change. Explores various communication outlets and media and how they are appropriate for different messages.

**Equivalent to:** AED 580

### **Agricultural Education (AED)**

## **AED LDEA, LOWER DIVISION ED ABROAD, 0-16 Credits**

*This course is repeatable for 99 credits.*

## **AED UDEA, UPPER DIVISION ED ABROAD, 0-16 Credits**

*This course is repeatable for 99 credits.*

## **AED 235, INTRODUCTION TO AGRICULTURAL EDUCATION, 2 Credits**

Introduces students to the field of agricultural education. Explore the historical foundations and career pathways in non-formal and school-based agricultural education. Topics will include school-based agricultural education, non-formal and extension education, and agricultural literacy. Develop career skills and a plan to pursue a future career in agricultural education.

*Available via Ecampus*

## **AED 313, EARLY FIELD EXPERIENCE, 4 Credits**

Explores the agricultural education profession through this advanced form of early field experience. Observes a formal or non-formal agricultural education program and assists with instructional and non-instructional activities. Gains a better understanding of the day-to-day activities involved in facilitating an agricultural education program, whether formal (school-based) or non-formal (4-H, Extension, etc.).

*Available via Ecampus*

## **AED 325, PLANNING AND DELIVERING NON-FORMAL AGRICULTURAL EDUCATION, 3 Credits**

This course uses adult learning theory and practice, including planning non-formal agricultural education programs for youth and adults, methods of instructional delivery, effective use of instructional technology, marketing agricultural education programs, and evaluation of agricultural education outcomes. Microteaching (practice teaching presentations) and group presentations required as part of laboratory assignments.

## **AED 407, SEMINAR, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **AED 499, SPECIAL TOPICS, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **AED 501, RESEARCH, 1-16 Credits**

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## **AED 503, THESIS, 1-16 Credits**

*This course is repeatable for 999 credits.*

## **AED 505, READING AND CONFERENCE, 1-16 Credits**

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## **AED 507, SEMINAR, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **AED 508, WORKSHOP, 1-16 Credits**

*This course is repeatable for 16 credits.*

**AED 509, PRACTICUM, 1-16 Credits**

*This course is repeatable for 16 credits.*

*Available via Ecampus*

**AED 510, PROFESSIONAL INTERNSHIP: AGRICULTURE EDUCATION, 1-40 Credits**

*This course is repeatable for 40 credits.*

*Available via Ecampus*

**AED 518, EXTENSION COURSE IN TEACHER EDUCATION/PEDAGOGY, 1-3 Credits**

Enables present and prospective teachers of agriculture to continue their professional development on pedagogical topics of current importance.

**Equivalent to:** AG 518

*This course is repeatable for 50 credits.*

*Available via Ecampus*

**AED 552, PROGRAM ORGANIZATION AND MANAGEMENT, 3 Credits**

Explores the foundations of vocational education, essential learning skills, advisory committees, and development of a vocational education philosophy. Students will study the elements of educational reform as they apply to specific service areas. Resource analysis, student organizations, and school-to-work transitions will also be studied.

**AED 553, APPLIED INSTRUCTIONAL STRATEGIES, 3 Credits**

Helps students in the identification and development of goals, objectives and units. The course includes the development and application of subject area instructional strategies/models, including applied math, writing, communication skills, measurement and evaluation of achievement, and delivery of instruction to at-risk students. Safety is a primary focus.

**AED 554, MICRO-TEACHING, 3 Credits**

Planning, presenting and evaluating lessons in a micro-teaching lab. It includes application of content pedagogy strategies, subject matter principles and media technology. Lessons presented on safety.

**AED 555, LABORATORY PEDAGOGY, 3 Credits**

Applications of efficient planning, organizing, and teaching skills within the laboratory setting and utilization of laboratory facilities to optimize learning experiences. Laboratory facilities could include a shop, greenhouse, land laboratories/outdoors, agriscience labs, aquaculture, computer lab, field trips, etc.

*Available via Ecampus*

**AED 556, LINK RESEARCH, TEACHING, AND PRACTICE, 3 Credits**

Links research to teaching. Students will work with cooperating teachers to identify and apply research to teaching.

**AED 557, ISSUES AND TRENDS IN CURRICULUM AND INSTRUCTION, 3 Credits**

Emphasizes trends related to subject matter curriculum issues unique to agricultural education at the secondary level.

**AED 558, IMPROVING AGRICULTURAL SCIENCE AND TECHNOLOGY PROGRAMS, 3 Credits**

Provides impetus toward evaluation and improvement of local programs of agricultural science and technology (AST), such that they better reflect community, regional, and national needs.

**AED 599, SPECIAL TOPICS, 1-16 Credits**

*This course is repeatable for 16 credits.*

**AED 603, DISSERTATION, 1-16 Credits**

*This course is repeatable for 999 credits.*

**AED 640, INSTRUMENTATION AND DATA COLLECTION IN SOCIAL SCIENCE, 3 Credits**

Addresses the selection, development, and analysis of various types of quantitative instruments and procedures for collecting research data. The course has a quantitative focus and is oriented toward social science research.

**Recommended:** ED 620 or equivalent introductory research methods course

**General Agriculture (AG)****AG LDEA, LOWER DIVISION ED ABROAD, 0-16 Credits**

*This course is repeatable for 99 credits.*

**AG UDEA, UPPER DIVISION ED ABROAD, 0-16 Credits**

*This course is repeatable for 99 credits.*

**AG 111, INFORMATION TECHNOLOGY IN AGRICULTURE, 3 Credits**

Using information technology in agriculture and agribusiness; practical experience with computer programs applicable to all agricultural disciplines.

*Available via Ecampus*

**AG 199, SPECIAL STUDIES, 1-16 Credits**

*This course is repeatable for 16 credits.*

**AG 200, ORIENTATION TO THE AGRICULTURAL SCIENCES MAJOR, 2 Credits**

Exploration of Agricultural Sciences major and career opportunities.

*Available via Ecampus*

## AG 201, +\*INDIGENOUS ECOSYSTEM SCIENCES IN PACIFIC NORTHWEST REGIONS, 3 Credits

Introduces Indigenous ancestral history and connectivity to landscape and resources. Features oral and written presentations by Native people and includes readings, charts, graphs, films and videos, offerings that are all written or produced by Indigenous peoples. Includes a concentration on use and management of cultural and natural resources, historic and contemporary impact of Treaty agreements, place-based rights, current land-use controversies, genocide, termination and restoration, trust responsibilities.

**Attributes:** CFDP – Core Ed - Difference, Power & Oppression; CPDP – Bacc Core, Perspectives, Difference/Power/Discrimination  
*Available via Ecampus*

## AG 230, INTRODUCTION TO EXTENSION AND ENGAGEMENT, 3 Credits

For students interested in pursuing a career with the OSU Extension Service. An introduction to the OSU Extension Service mission, philosophy, history, organization, structure, administration, program areas, Extension program development, Extension teaching and delivery methods, and the involvement and use of volunteers.

*This course is repeatable for 6 credits.*

*Available via Ecampus*

## AG 311, +\*INDIGENOUS AGRICULTURE AND SUBSISTENCE, 3 Credits

Introduces subsistence and agriculture including resource use, seasonal rounds, indicator species, ancestral gathering, water ownership, seed saving, and methods of resource use and land management that informed the past and connect to the future. Explores the knowledge of Indigenous peoples through Indigenous guest speakers and various media (developed and presented with permissions of Tribal Nations). Examines contemporary issues including modern stereotypes, women's contributions to agriculture, cultural survival, disease, Tribal AG and Seed Saving Councils, and physical/cultural/spiritual significance of crops in Indigenous communities. Asks students to engage with ancestral culture, theory and power in ethnicity, and historical to contemporary ideologies of government power relationships.

**Attributes:** CPCD – Bacc Core, Perspectives, Cultural Diversity; CSDP – Core Ed - Advanced Difference, Power & Oppression

**Recommended:** Completion of a Difference, Power, and Oppression Foundations course; Collaboration, critical thinking, and writing skills

*Available via Ecampus*

## AG 321, \*WOMEN IN AGRICULTURE, 3 Credits

Explores and celebrates women in agricultural sciences in Oregon, in the U.S., and from around the world. Examines a spectrum of topics related to women in agriculture locally to globally: women's roles in agricultural communities, women's roles in agricultural production and food security, women-driven agricultural development, gender roles in agriculture in rural areas and women's agency and challenges. Provides a broad picture of women's contributions to agricultural practices and research, throughout history and in contemporary societies.

**Attributes:** CSST – Bacc Core, Synthesis, Science/Technology/Society  
*Available via Ecampus*

## AG 351, \*COMMUNICATING GLOBAL AGRICULTURE & NATURAL RESOURCES ISSUES, 3 Credits

Examines the interdependence between agriculture and natural resources on a global scale. Explores the best options to advance the agriculture industry to provide food for a growing population while conserving natural resources. Investigates how to best communicate their findings in a manner that is consumable and appealing to the general public.

**Attributes:** CSGI – Bacc Core, Synthesis, Contemporary Global Issues

**Equivalent to:** AGCM 351

*Available via Ecampus*

## AG 391, FARM IMPLEMENTS, 3 Credits

Power farming implements including operation, maintenance, adjustments, calibration and use are covered.

*Available via Ecampus*

## AG 401, RESEARCH, 1-16 Credits

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## AG 402, INDEPENDENT STUDIES, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 403, THESIS, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 405, READING AND CONFERENCE, 1-16 Credits

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## AG 406, SPECIAL PROBLEMS, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 407, SEMINAR, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 409, PRACTICUM, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 410, INTERNSHIP, 1-16 Credits

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## AG 412, AG SAFETY AND HEALTH, 3 Credits

An examination of various hazards associated with agriculture. Control strategies will be explored and prevention methods identified. Hazards examined include machinery, livestock, controlled spaces, pesticides, and other items common to the agricultural workplace.

*Available via Ecampus*

## AG 421, ^WRITING IN AGRICULTURE, 3 Credits

Students will synthesize their knowledge in various areas of agricultural sciences and analyze how current issues impact the agriculture industry, explore careers in agriculture, and develop their written communication skills. Students will share their ideas and demonstrate their learning primarily in writing.

**Attributes:** CSWC – Core Ed - Writing Intensive Curriculum (WIC); CWIC – Bacc Core, Skills, Writing Intensive Curriculum (WIC)

*Available via Ecampus*

## AG 425, DEVELOPMENTS IN AGRICULTURAL MECHANICS, 3 Credits

Emphasis on the development of instructional units for agricultural instruction programs. Wide applications to agricultural mechanization and biotechnology.

*This course is repeatable for 9 credits.*

## AG 435, PROFESSIONAL PRESENTATIONS IN AGRICULTURE, 3 Credits

Students will learn to effectively create and deliver professional presentations relevant to careers in agriculture and natural resources. This includes developing skills for both formal and informal presentations, using visual aids effectively, and using appropriate strategies to engage various audiences.

**Equivalent to:** AGCM 435

## AG 445, SOCIAL MEDIA ADVOCACY IN AGRI SCIENCES & NATURAL RESOURCES, 3 Credits

Through practice and application, students develop the ability to communicate effectively in writing using social media and other digital platforms for business purposes, including internal communication, stakeholder engagement, educational messaging, event promotion, and product marketing.

**Equivalent to:** AGCM 445

*Available via Ecampus*

## AG 455, \*RISK AND CRISIS COMMUNICATIONS IN AG SCI & NATURAL RESOURCES, 3 Credits

Examine potential risk and crisis communications scenarios in agriculture, natural resources and environmental sciences, plus the relevant theories, models, and processes involved in addressing these types of situations effectively. Explores the mitigation, management, and response to risks and crises from a communications perspective with special application to natural resources, along with agricultural and environmental sciences, hazardous situations through completing case studies and creating a risk and crisis communications manual.

**Attributes:** CPSI – Bacc Core, Perspectives, Social Processes & Institutions

**Equivalent to:** AGCM 455

*Available via Ecampus*

## AG 465, AG SCI AND NATURAL RESOURCES COMMUNICATIONS MINOR CAPSTONE, 2 Credits

Reflect on accumulated knowledge and technical/soft skills gained and conceptualize how to apply communication theories and practices in the context of future agricultural and natural resources careers.

Integrate real-life agriculture and natural resources communications scenarios, which will allow for the practice of strategy development, proper implementation, and appropriate assessment methods. Helps package and demonstrate skills verbally and in a portfolio.

**Prerequisite:** AG 351 with D- or better

**Equivalent to:** AGCM 465

*Available via Ecampus*

## AG 499, SPECIAL TOPICS, 1-4 Credits

*This course is repeatable for 12 credits.*

## AG 507, SEMINAR, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 509, PRACTICUM, 1-16 Credits

*This course is repeatable for 16 credits.*

## AG 518, EXTENSION COURSE IN TEACHER EDUCATION: TECHNICAL, 1-3 Credits

Enables present and prospective teachers of agriculture to continue their professional development on technical topics of current importance.

**Equivalent to:** AED 518

*This course is repeatable for 9 credits.*

## AG 521, WRITING IN AGRICULTURE, 3 Credits

Students will synthesize their knowledge in various areas of agricultural sciences and analyze how current issues impact the agriculture industry, explore careers in agriculture, and develop their written communication skills. Students will share their ideas and demonstrate their learning primarily in writing.

*Available via Ecampus*

## AG 525, DEVELOPMENTS IN AGRICULTURAL MECHANICS, 3 Credits

Emphasis on the development of instructional units for agricultural instruction programs. Wide applications to agricultural mechanization and biotechnology.

*This course is repeatable for 45 credits.*

### Leadership (LEAD)

## LEAD LDEA, LOWER DIVISION ED ABROAD, 1-16 Credits

*This course is repeatable for 99 credits.*

## LEAD UDEA, UPPER DIVISION ED ABROAD, 1-16 Credits

*This course is repeatable for 99 credits.*

## LEAD 242, +PERSONAL LEADERSHIP DEVELOPMENT, 3 Credits

Navigates the realms of leadership and followership. Explores diverse approaches, styles, and competencies of the leadership-followership system. Cultivates essential employability skills and leadership-followership competencies through immersive activities. Fosters self-awareness and confidence. Refines personality characteristics to clarify values, embrace diverse mindsets, explore ethical styles, and hone employability readiness skills. Elevates impact as a proactive contributor to home, community, and profession.

**Attributes:** CSC1 – Core Ed - Beyond OSU Career Preparation; CSC2 – Core Ed - Beyond OSU Career Engagement

**Prerequisite:** CORE 100 with D- or better or CORE 300 with D- or better or BA 100 with D- or better or BA 300 with D- or better or ED 100 with D- or better or ED 300 with D- or better or LA 100 with D- or better or LA 300 with D- or better or SCI 100 with D- or better or SCI 300 with D- or better or ENGR 110 with D- or better or ENGR 110H with D- or better or ENGR 310 with D- or better or Baccalaureate Core Student with a score of 1

Available via Ecampus

## LEAD 252, \*MULTICULTURAL LEADERSHIP, 3 Credits

Explores and examines the dynamic subject of multicultural leadership from multiple perspectives, using examples from throughout the U.S. and around the world, and employs an international lens for inquiry. Emphasizes "effective" leadership across cultures; cultural styles and awareness; social dimensions of culture; leading with cultural intelligence, and multicultural leadership effectiveness. Builds multicultural leadership competencies in order to create effective and mindful leaders. Prepares students to be global leaders in their prospective communities.

**Attributes:** CPCD – Bacc Core, Perspectives, Cultural Diversity

Available via Ecampus

## LEAD 262, +\*TEAM AND ORGANIZATIONAL LEADERSHIP, 3 Credits

Introduces students to the field of leadership studies as an interdisciplinary social science. Explores how individual and group behavior is shaped by institutional roles, organizational norms, and cultural systems, using team leadership as a lens. Analyzes team dynamics, power structures, decision-making processes, and leadership practices, and evaluates how institutions and social contexts shape outcomes. Uses applied projects and reflective exercises, to develop communication strategies, manage conflict, and assess students' influence within groups, preparing them for active organizational participation and informed leadership.

**Attributes:** CFSS – Core Ed - Social Science; CPSI – Bacc Core, Perspectives, Social Processes & Institutions

**Recommended:** LEAD 242

## LEAD 401, LEADERSHIP RESEARCH, 1-16 Credits

This course is repeatable for 16 credits.

## LEAD 405, READING AND CONFERENCE, 1-16 Credits

This course is repeatable for 16 credits.

## LEAD 407, SEMINAR, 1-16 Credits

This course is repeatable for 16 credits.

## LEAD 409, PRACTICUM, 1-16 Credits

This course is repeatable for 16 credits.

Available via Ecampus

## LEAD 410, LEADERSHIP INTERNSHIP, 1-16 Credits

This course is repeatable for 16 credits.

Available via Ecampus

## LEAD 430, FOUNDATIONS OF ADVENTURE LEADERSHIP, 3 Credits

Examines leadership concepts utilized in adventure education and provides a foundation for leadership opportunities. Presents an overview of the history, theoretical foundations and utilization of adventure leadership. Focused leadership topics include theoretical foundations of adventure leadership, learning styles in effective leadership, facilitation techniques in leadership activities, and situational leadership tactics.

## LEAD 432, BACKCOUNTRY LEADERSHIP, 3 Credits

Prepares students to be leaders in outdoor settings by building the practical and logistical skills needed in the effective delivery of courses and/or trips. Covers the teaching skills and essentials for trip leaders in the wilderness, including trip planning, logistics, risk management, and group interaction in the backcountry. Focuses on leadership development and leading groups, focus on special populations, social justice, and situational leadership skills.

**Recommended:** Previous outdoor recreation understanding; critical thinking, leadership, and problem solving skills

Available via Ecampus

## LEAD 433, TEACHING AND LEADING TECHNIQUES FOR OUTDOOR ACTIVITIES, 3 Credits

Plans and executes an activity course for students, including class sessions and at least one outing. Emphasizes teaching and leading groups through outdoor activities at a professional level, including risk management, trip logistics, policies, response plans, evacuation skills, situational leadership theory, and group development. Explores their personal leadership styles and how to adapt based on the group's needs. Instructor guides student through implementation and reflection of leadership skills and styles throughout the course.

**Prerequisite:** LEAD 432 with C or better

## LEAD 442, LEADERSHIP SKILLS FOR CAREER SUCCESS, 3 Credits

Focuses on the development and refinement of the following leadership skills: utilizing diversity, team building, project management, program planning models, working with difficult people, conflict management, leading change, establishing an effective network, organizational strategies, and emotional intelligence.

Available via Ecampus

## **LEAD 443, LEADERSHIP THROUGH CONVERSATIONS, 3 Credits**

Engages students in the exploration of conversations as a component of leadership. Students will engage in topics related to developing effective conversations, listening, conversation styles, group dynamics, digital communication, meetings as conversations and interviewing skills.

*Available via Ecampus*

## **LEAD 444, LEADERSHIP MINOR CAPSTONE, 2 Credits**

Capstone course for students completing the Leadership minor. Students will reflect on what they have learned through the Leadership minor and how to apply that learning in the context of their future careers.

**Recommended:** LEAD 242 and LEAD 342

## **LEAD 501, RESEARCH AND SCHOLARSHIP, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **LEAD 502, INDEPENDENT STUDY, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **LEAD 505, READING AND CONFERENCE, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **LEAD 506, SPECIAL PROBLEMS/SPECIAL PROJECTS, 1-16 Credits**

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## **LEAD 507, SEMINAR, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **LEAD 509, PRACTICUM, 1-16 Credits**

*This course is repeatable for 16 credits.*

## **LEAD 510, INTERNSHIP, 1-16 Credits**

*This course is repeatable for 16 credits.*

*Available via Ecampus*

## **LEAD 530, FOUNDATIONS OF ADVENTURE LEADERSHIP, 3 Credits**

Examines leadership concepts utilized in adventure education and provides a foundation for leadership opportunities. Presents an overview of the history, theoretical foundations and utilization of adventure leadership. Focused leadership topics include theoretical foundations of adventure leadership, learning styles in effective leadership, facilitation techniques in leadership activities, and situational leadership tactics.

## **LEAD 532, BACKCOUNTRY LEADERSHIP, 3 Credits**

Prepares students to be leaders in outdoor settings by building the practical and logistical skills needed in the effective delivery of courses and/or trips. Covers the teaching skills and essentials for trip leaders in the wilderness, including trip planning, logistics, risk management, and group interaction in the backcountry. Focuses on leadership development and leading groups, focus on special populations, social justice, and situational leadership skills.

**Recommended:** Previous outdoor recreation understanding

*Available via Ecampus*

## **LEAD 542, LEADERSHIP SKILLS FOR CAREER SUCCESS, 3 Credits**

Focuses on the development and refinement of the following leadership skills: utilizing diversity, team building, project management, program planning models, working with difficult people, conflict management, leading change, establishing an effective network, organizational strategies, and emotional intelligence.

*Available via Ecampus*

## **LEAD 543, LEADERSHIP THROUGH CONVERSATIONS, 3 Credits**

Engages students in the exploration of conversations as a component of leadership. Students will engage in topics related to developing effective conversations, listening, conversation styles, group dynamics, digital communication, meetings as conversations and interviewing skills.

*Available via Ecampus*

## **LEAD 580, LEADING AUTHENTICALLY: FOUNDATIONS OF LEADERSHIP, 3 Credits**

The foundational course for students in graduate leadership coursework. Students will explore leadership theories to develop an understanding of how to be an authentic leader. Students will analyze and apply course content in relation to their own personal leadership experiences and gain perspectives and tools to influence their future.

*Available via Ecampus*

## **LEAD 581, LEADING OTHERS: ENHANCING TEAM AND ORGANIZATIONAL PERFORMANCE, 3 Credits**

A foundational course for group, team, and organizational leadership. Throughout this course, you will become familiar with the necessary conditions for designing effective teams and work groups, best practices and processes needed for maximum productivity, strategies to resolve common issues in teams, and methods to evaluate team performance.

*Available via Ecampus*

## **LEAD 582, LEADING CHANGE: LEADING, MOTIVATING, AND EMPOWERING OTHERS, 3 Credits**

Examines and synthesizes leadership content to form a personal and professional foundation for being remarkable. Drawing on 15 different being remarkable qualities, students will be challenged to develop and apply the skills needed for leadership success.

*Available via Ecampus*