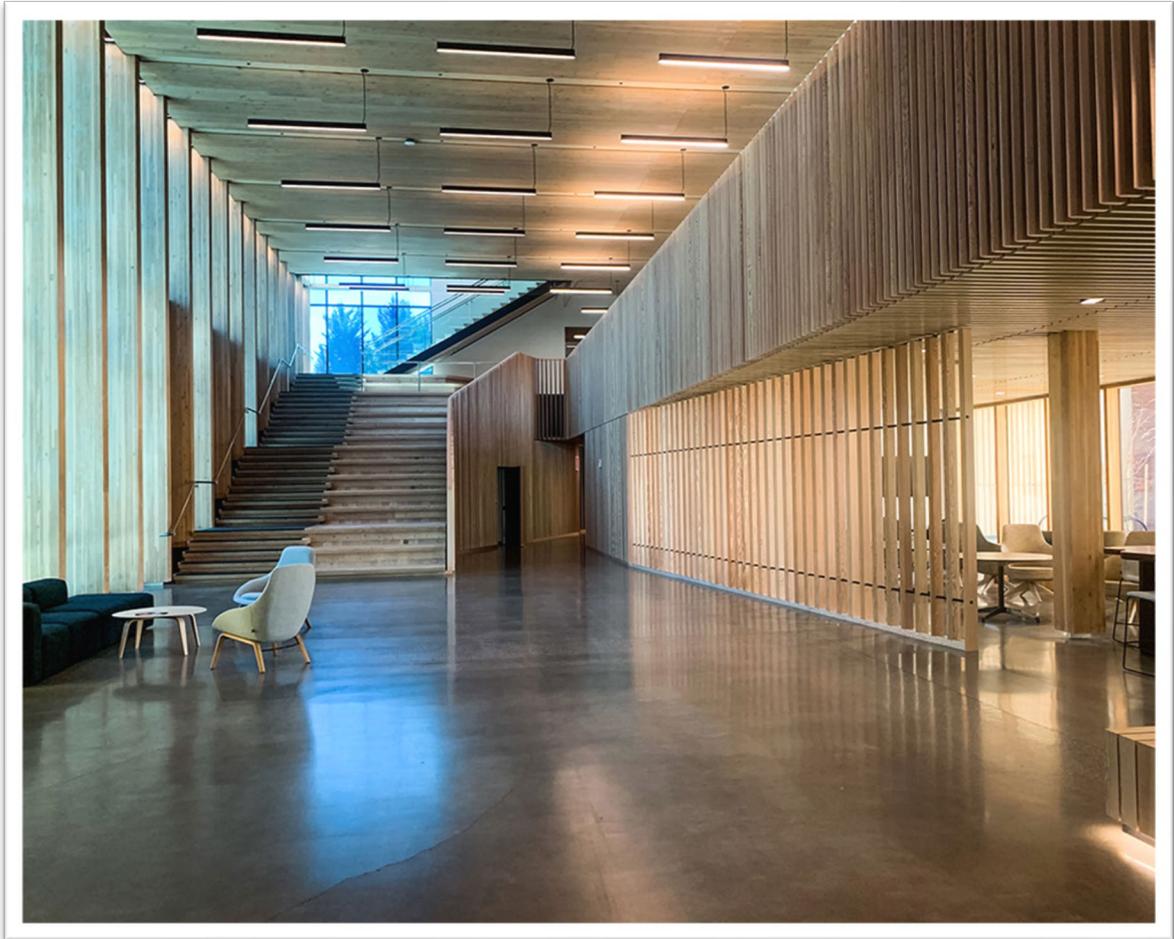




Oregon State University College of Forestry



2020-2021

Undergraduate Handbook

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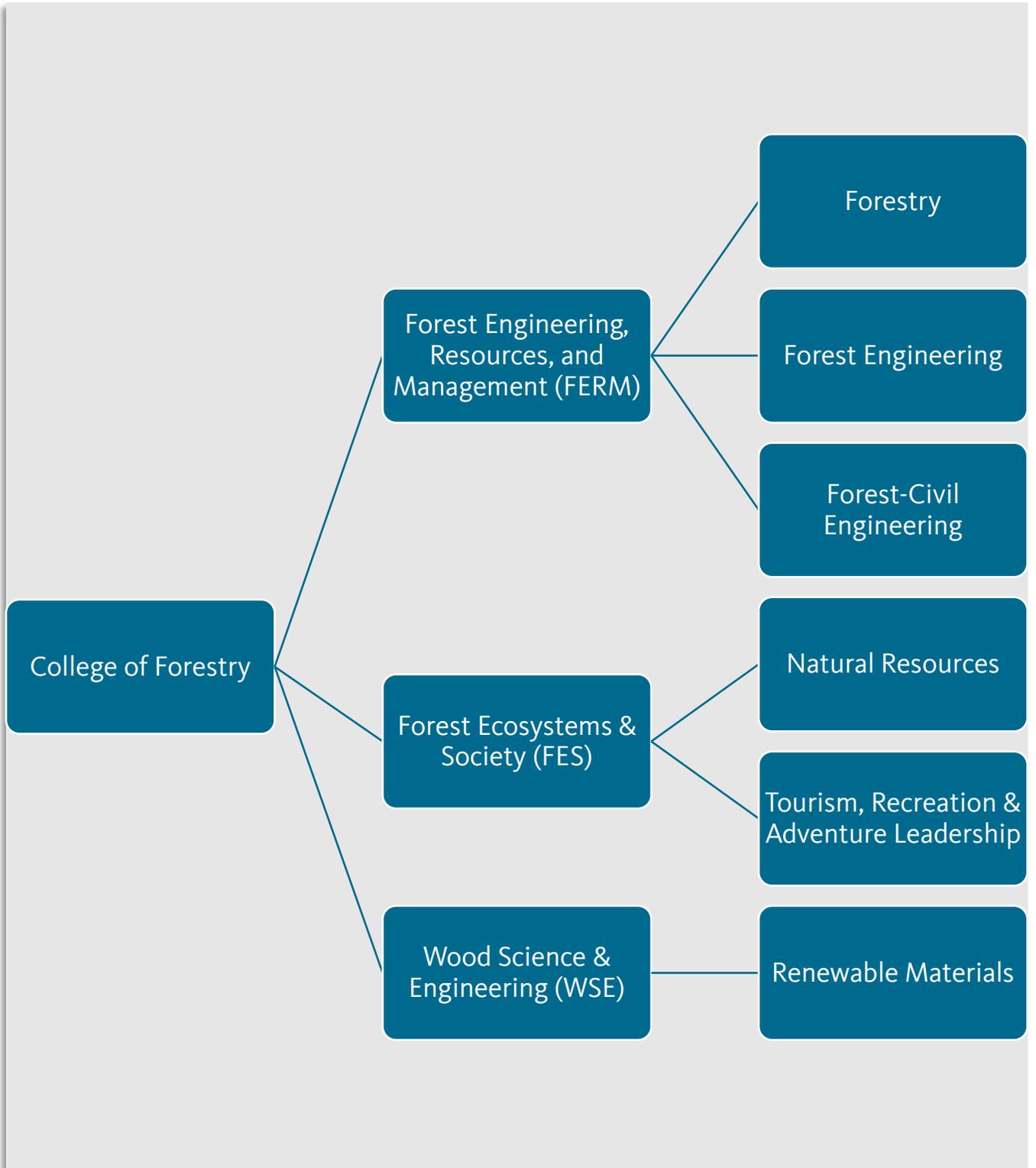
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College, Departments, Majors

College

Departments

Undergraduate Majors



Departments

Forest Engineering & Management



Forest Engineering, Resources & Management (FERM)

ferm.forestry.oregonstate.edu

Peavy 216

541-737-4952

Majors:

Forestry

Forest Engineering

Forest-Civil Engineering

Forest Ecosystems & Society



Forest Ecosystems & Society (FES)

fes.forestry.oregonstate.edu

Richardson 321

541-737-2244

Majors:

Natural Resources

Tourism, Recreation, and Adventure Leadership

Renewable Materials



Wood Science & Engineering (WSE)

woodscience.oregonstate.edu

Richardson 119

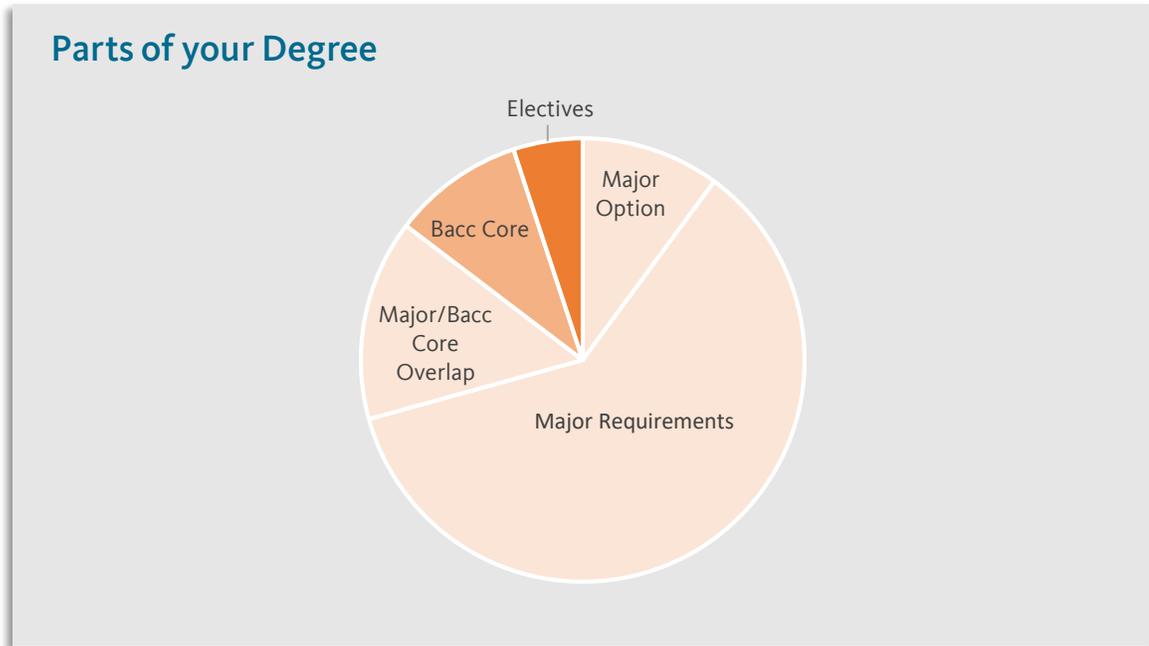
541-737-8506

Major:

Renewable Materials

Parts of Your Degree

In general, your degree will have three parts: the Baccalaureate Core, major requirements, and electives. You will need a minimum of 180 credits to receive a degree. Students in Forest Engineering need 192, and those in Forest-Civil Engineering need 245.



Baccalaureate Core (“Bacc Core”): General education curriculum required of every OSU student.

Major: Your primary area of study. The majority of your courses will be in your major, and you will gain a depth of knowledge in this discipline.

Option: Some majors include an option. Options are specialized tracks within the major, allowing you to tailor your courses more specifically within a broad major.

Minor: A secondary area of study. Most minors require 24-36 credits of coursework, giving you a little more depth in that particular area. College of Forestry students are not required to have a minor.

Electives: These are courses that you choose. Generally, they will not fulfill a requirement for your major, Bacc Core, or minor, but still count toward your total credits for graduation. Students often earn elective credit for music or physical fitness classes that they take for fun.

Consult your Academic Advisor, your Advising Guide, the OSU Catalog, and your MyDegrees page for requirements of your specific program.

Baccalaureate Core

Baccalaureate Core (commonly referred to as “Bacc Core”) is the general education curriculum at Oregon State University. In order to graduate from OSU, students must complete the Bacc Core in addition to their major requirements.

Category Name	Details	Credits	Fulfilled by my Major?
Writing I	Must be completed satisfactorily (grade of C- or better) within the first 45 credits at OSU. Last name A-G: Fall Last name H-N: Winter Last name O-Z: Spring	3	
Writing II	Must be completed satisfactorily within the first 90 credits at OSU.	3	
Speech	Must be completed satisfactorily within the first 45 credits at OSU.	3	
Mathematics	Must be completed satisfactorily within the first 45 credits at OSU.	4	
Fitness	Two parts: HHS 231 (2 credits) and HHS 24X/PAC (1 credit)	3	
Biological Science & Lab		4-5	
Physical Science & Lab		4-5	
Additional Lab Science	Choose an additional Physical Science or Biological Science course	4-5	
Cultural Diversity		3-4	
Literature & the Arts		3-4	
Social Processes & Institutions		3-4	
Western Culture		3-4	
Difference, Power, and Discrimination		3-4	
Contemporary Global Issues		3	
Science, Technology, and Society		3	
Writing Intensive Course (WIC)	WIC must be taken in the major	3-4	

A full list of courses that fulfill Bacc Core requirements is available online:

catalog.oregonstate.edu/earning-degrees/bcc/. Some Bacc Core requirements may be fulfilled by courses you take for your major. Consult with your Academic Advisor to determine which categories you need to fulfill.

Program Overview: Forest Engineering



Forest Engineering at Oregon State has a long tradition of excellence in undergraduate education. Our programs are designed to provide a solid Engineering background as well as fundamental knowledge in Forestry principles and practices. OSU is one of only two universities in the U.S. to offer a forest engineering degree. We provide an engineering education that focuses on solving the engineering problems of Forest Resource Management. Employers in forest industries, consulting firms, and public agencies recognize the strength of OSU's programs. The quality in the Forest Engineering program is maintained by including breadth and depth in both Forestry and Engineering topics in the curriculum. The Bachelor of Science in Forest Engineering is accredited by the Society of American Foresters (SAF) and by the Engineering Accreditation Commission of ABET, Inc.

The Forest Engineering Program at Oregon State University prepares graduates to plan and implement solutions to complex forestry and natural resource problems. Early career opportunities include harvest unit design, forest road location and design, contract inspection and administration, cost analysis, and forest transportation management. Mid-career assignments may involve aspects of engineering management including planning and budgeting, supervision, wood supply procurement, harvest and road design reviews, and scheduling and controlling forest operations.

Career Example

Forest Engineer: Apply engineering principles to forest lands. A forest engineering connects the dots in a working forest, making sure things get from point A to point B. If a road needs to be built or a bridge needs to be installed, a forest engineer manages the whole project. Design, negotiate, and oversee projects. Salary Range: \$56,000-\$75,000

Curriculum

catalog.oregonstate.edu/college-departments/forestry/forest-engineering-resources-management/forest-engineering-bs-hbs/

Advising Guide & Sample Four-Year Plan

forestry.oregonstate.edu/studentservices/majors-advising-guides

Pro-School (see p. 14):

The Forest Engineering major operates on a pre/pro model. Students spend their first two years in the Pre-Forest Engineering program (Pre-FE), and move to the professional Forest Engineering program (or “Pro-School”) for their junior and senior years. Students remain in the Pre-FE program until completing the Pre-FE curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-FE curriculum. Pre-FE students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Program Overview: Forest-Civil Engineering

Graduates from these degree programs receive a rigorous blend of engineering and forestry education that provides a foundation for amazingly diverse career options. The OSU Forest Engineering Program is the only one that is accredited in both engineering and forestry. The FE/CE double degree is unique; it is not available at any other university in North America and the Engineering Accreditation Commission of ABET, Inc. (ABET) accredits both programs.



Graduates from both degree programs are prepared to play a variety of key roles in helping meet the world's appetite for wood products from sustainable forests, while also protecting other resource values such as soils, water, wildlife habitat, and recreation opportunities. In a world of more than 7 billion people, society's wood demands are enormous and growing, even with aggressive recycling programs. Many Forest Engineering graduates help meet these demands through positions that plan, design, and implement forestry activities — applying the best engineering, science, technology and experience available to conduct safe, cost effective, and environmentally responsible forest operations.

Other Forest Engineering graduates, especially those from the FE/CE degree program, sometimes pursue careers with less forestry focus. Examples include land development, surveying engineering, transportation engineering and management, environmental consulting, and even municipal engineering. The 5-year double degree is challenging, but commonly provides the most diverse job opportunities and highest starting salaries.

Traditional forest engineering careers typically involve developing and maintaining transportation systems, and planning and designing timber harvests and other forest operations. Forest products or timberland management companies, federal or state agencies, and consulting or contracting firms are the most common entry-level employers for graduates. Some stay in field-oriented positions for much of their career, but many graduates have also become successful managers and executives as they gain experience. A substantial number of graduates find opportunity and satisfaction in owning their own consulting or contracting business, especially if they have an interest in entrepreneurship. All of these types of positions represent vibrant and timely career opportunities. Forestry continues to be a cornerstone of the economy of many communities, providing jobs and economic vitality. This is a good time to be entering this field as the baby boomer generation begins to retire. As the population of the world grows and natural resource challenges become more complex the need for well-rounded highly trained forest engineers becomes greater.

Career Example

Engineer: Maintain roads, bridges, dams and more. Civil engineers design, construct, and manage public works like roads, bridges and harbors. Individuals licensed as Forest and Civil Engineers can work in forested or urban areas. Salary range: \$50,560-\$119,320

Land Surveyor: Measure and map the land. Surveyors measure and update boundary lines and prepare for construction. Surveyors make precise measurements and advanced instruments. They provide data relevant to the shape and contour of the earth's surface for engineering, mapmaking, and construction projects. Salary range: \$56,000-\$81,410.

Curriculum

catalog.oregonstate.edu/college-departments/forestry/forest-engineering-resources-management/forest-engineering-civil-engineering-bs-hbs/

Advising Guide & Sample Five-Year Plan

forestry.oregonstate.edu/studentservices/majors-advising-guides

Pro-School (see p. 14):

The Forest-Civil Engineering major operates on a pre/pro model. Students spend their first two years in the pre-FE/CE program, and move to the professional FE/CE program (or "Pro-School") for their final three years. Students remain in the Pre-FE/CE program until completing the Pre-FE/CE curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-FE/CE curriculum. Pre-FE/CE students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

FE/CE students must also meet progression standards for Civil Engineering, and are subject to different GPA requirements. Engineering Progression Model: engineering.oregonstate.edu/apply-engineering-professional-program-summer15-later

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Program Overview: Forestry

The B.S. in Forestry program is intended to more broadly educate and train forest land managers in the biological, physical, and socioeconomic factors that influence forest policies and management actions. Our graduates will be prepared to work for the forest industry, non-industrial landowners, federal and state agencies, non-profits and nongovernmental organizations.



The successful forester must understand the biological and physical processes of forest ecosystems, as well as the social, economic, and operational forces that influence forest policies and management actions. The forestry core curriculum includes basic courses in the biological, physical, social sciences, and six months of work experience as well as professional courses designed to prepare students to manage forest resources.

Learning outcomes for the B.S. in Forestry program:

- Demonstrate knowledge of forest ecology and silvicultural principles to understand how forests and forested watersheds respond to natural disturbances or management activities.
- Develop skills in geospatial analysis, basic surveying, mapping, and Geographic Information Systems (GIS).
- Demonstrate ability to measure and inventory forest vegetation with precision and accuracy.
- Develop an understanding of forestry investment analysis and be able to evaluate typical financial investments in forestry.
- Demonstrate an understanding of the development and execution of strategic, tactical and operational forest plans that support achievement of desired future stand conditions and strategic goals.
- Demonstrate an understanding of the social and political context of forestry and be able to describe current policies, laws, and regulations governing the management of forestlands.

Forestry students must choose one of three options within the major:

- Forest Management
- Forest Operations Management
- Forest Restoration and Fire

Forest Management Option

The Forest Management Option is a broad-based education, including basic courses in mathematics, statistics, biology and ecology, the physical and social sciences, professional courses in forest biology and ecology and forest management, and at least 6 months of work experience. Entry-level positions for graduates can include duties that span the full range of forest resource uses and management activities, including: fire control and prevention, watershed protection, wildlife habitat management, forest roads and trails, timber management and regeneration, forest health assessment and insect/disease control measures, community-based forestry, ecosystem services markets and carbon offset sales, and management consulting. Graduates are employed by private and public

organizations. Private sector employers include the forest timber and wood products industries, forestry consulting firms, Non-Government Organizations (NGOs) and environmental organizations, and self-employment. Public employers include federal, state, and local government agencies such as the U.S. Forest Service, Bureau of Land Management, National Park Service, Peace Corps, and state departments of forestry and natural resources.

Forest Operations Management Option

The Forest Operations Management Option is designed as a professional forestry degree that blends elements of forest engineering and forest management with business management and entrepreneurship. This option will prepare graduates to support the needs of an evolving forest sector in Oregon and the world. As they gain experience, graduates will have options to serve as project managers for logging or silvicultural contracting service firms, as consultants, or as company or agency contract administrators that supervise a growing contracting work force. Graduates will also be prepared to continue on to graduate school in a variety of disciplines that range from natural resources to business.

The educational objectives of the Forest Operations Management Option are to develop science, engineering and technical solutions that promote sustainable management of forest, land and water resources to meet society's economic, environmental and social needs. This option is intended for students who have strong interest in the operational aspects of industrial forest management. More specifically, students who wish to own or manage a contracting business that provides silviculture, harvesting, or transportation system services to larger companies or agencies, or be employed by companies or agencies to administer contracts and manage operations, much like project managers do in the construction business.

This option meets all of the coursework requirements for the Business and Entrepreneurship minor from the College of Business. Students in the Forest Operations Management Option must apply to the College of Business to be admitted to the Business and Entrepreneurship Minor.

Forest Restoration & Fire Option

The Forest Restoration & Fire Option emphasizes active management to accommodate, to prevent, to mitigate and/or to use forest disturbance processes as part of a forest management plan. Disturbance processes, such as wildfire, insect or disease outbreak, landslides, and windthrow, are important considerations in any actively managed forest, regardless of the specific management objective. In forests managed primarily for wood production, where the predominant disturbance is harvest, "natural" disturbance may pose risk of damage to timber values and disturbance management is primarily preventative. Where management objectives include recreation, biodiversity, restoration to historical conditions, or other ecosystem services, these disturbances may have beneficial outcomes; hence, management may include use of disturbance as a management tool or simply as part of a renewal process in a resilient and diverse forested landscape.

The Forest Restoration & Fire option is intended to provide students with the knowledge and the skillset to incorporate natural processes, including disturbance, explicitly into forest management planning, whether it be to prevent or mitigate damage resulting from disturbance or to use disturbance processes purposefully to achieve management objectives. This knowledge / skillset is particularly important for managing forests at the landscape scale and in the face of uncertainty and rapid change (e.g. in climate or in land use patterns). It will complement the existing degree options in ways that will expand the set of potential employers for graduates from the B.S. Forestry degree

program.

The Association of Fire Ecology has granted accreditation for the Forest Restoration & Fire option.

Career Examples:

Professional Forester, Forest Manager: Foresters and forest managers are concerned with the overall administrative, economic, legal and social aspects and with scientific and technical aspects like silviculture, protection and forest regulation. Foresters are multitaskers, often addressing a variety of issues with other professionals from many different areas. The industry is growing at a rate of 3% per year, meaning that 990 jobs will be added by 2022. Salary range: \$53,770-\$71, 260.

Soil Scientist: Soil scientists study the physical and chemical properties of soil. Because soils are affected by so many other systems, soil scientists also study land and water resources. Many jobs in this area are for federal and state governments. Time is often split between the field and the lab. Salary range: \$37,630 - \$68,890.

Silviculturalist: Silviculturalists control forest regeneration, composition, growth, and quality. They are specially trained in identifying disease and pests. Silviculturalists often work for government agencies. Salary range: \$42,000 - \$62,000.

Fire Ecologist: Fire ecologists can look for, study, and fight wildfires. They can also work as consultants or foresters. Fire ecologists are experts on using prescribed burns to manage lands and prevent out-of-control wild fires. Salary range: \$40,000 - \$60,000.

Curriculum:

catalog.oregonstate.edu/college-departments/forestry/forest-engineering-resources-management/forestry-bs-hbs/

Advising Guide & Sample Five-Year Plan

forestry.oregonstate.edu/student-services/majors-advising-guides

Pro-School (see p. 14):

The Forestry major operates on a pre/pro model. Students spend their first two years in the pre-Forestry program, and move to the professional Forestry program (or “Pro-School”) for their junior and senior years. Students remain in the Pre-Forestry program until completing the Pre-Forestry curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-Forestry curriculum. Pre-Forestry students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Professional Program or “Pro-School”

Forestry and Forest Engineering Majors:

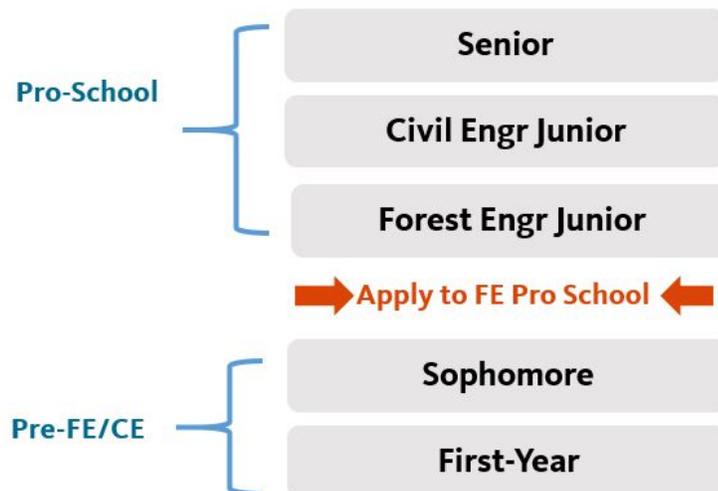


To be eligible for admission to Pro-School, Forestry and FE students must earn:

1. a grade of “C” or better in all courses for the major
2. a minimum GPA of 2.25 in the required courses (or transfer equivalents).

Application for the professional program will be available on the College of Forestry website in March. Applications will be due in early April, and applicants will be notified of their status by early May. The number of students admitted to the program is determined based on available resources.

Forest/Civil Engineering Majors:



In addition to the Forest Engineering Pro-School requirements listed above, FE/CE students must also meet the College of Engineering’s progression standards (engineering.oregonstate.edu/node/632). Students must demonstrate that adequate background has been gained in all coursework used to satisfy program requirements. Therefore, all coursework must be passed with a grade of “C” or better.

Regarding sequence courses or courses with prerequisites, a student receiving a grade below “C” in a prerequisite course will not be able to proceed in the sequence.

Program Overview: Natural Resources



Maintaining the integrity of the Earth's ecosystems is a key challenge of the 21st century. Increasing human population continues to place greater demands on our natural resources. Students in the Natural Resources program at Oregon State University gain an understanding of complex biophysical, social, and cultural systems shaping natural resource management. The Natural Resources program is an interdisciplinary degree. The degree emphasizes a broad-based approach to the study of natural resources, providing students the opportunity to combine areas of particular interest and focus on topics not otherwise offered at the undergraduate level.

With this degree program students will:

- Describe ecological processes, including human impacts that influence ecosystem change, natural succession and the future sustainability of natural resources.
- Envision desired future conditions in an area to achieve a set of natural resource-related objectives, prescribe management actions needed to achieve those objectives, and evaluate success of these actions.
- Describe how the use, management, and allocation of natural resources are affected by: laws, policies, economic factors (both market and non-market), and characteristics (including demographic, cultural, ethnic and values differences) of private and public resource owners and users.
- Communicate effectively, orally and in writing, with audiences of diverse backgrounds.
- Work effectively with, and within, interdisciplinary and diverse groups to resolve management problems and achieve management objectives.

Recent program graduates are working as natural resource specialists and planners with state and federal agencies, attending law school, training/working as teachers in K-12 education, and pursuing graduate degrees in a variety of disciplines.

Natural Resources Options:

Natural Resources students must choose one of twelve options within the major, tailoring the degree to their career interests and goals.

Conservation Law Enforcement (Corvallis and Ecampus)

Students will be prepared to enter careers in Conservation Law Enforcement with an understanding of the criminal justice system, environmental law and policy, human dimensions and sustainable resource management.

Ecological Restoration (Corvallis and Ecampus)

This option will help students understand complexities associated with restoration of terrestrial and aquatic ecosystems, and how restoration decisions involve significant interactions between ecological and social systems.

Fish & Wildlife Conservation (Corvallis, Ecampus, and Cascades)

This option prepares students for a career in the broad arena of natural resource and wildlife conservation. It emphasizes understanding the relationship between animal species and their habitat requirements and the ability to apply this knowledge to the management ecosystems as a means of conserving fish and wildlife.

Forest Ecosystems (Corvallis)

This option will assist students in understanding the nature of forest ecosystems and the processes by which they function. Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

Students in this area of specialization may be interested in becoming a certified Forester through the Society of American Foresters. Natural Resource students can meet credit hour requirements for certification.

Human Dimensions (Corvallis and Ecampus)

The student will develop an understanding of the interconnectedness of human behavior and well-being and natural resources. It includes skills and knowledge to better understand the cultural, social, political and philosophical issues associated with natural resources, and prepares students to work with various stakeholders in natural resource management.

Integrated Conservation Analysis (Corvallis)

Students pursuing this option will learn to recognize, understand, analyze and evaluate complex natural resource problems through a cross disciplinary approach. They will contribute to finding solutions to these critical issues by developing depth of knowledge in a disciplinary focus and by preparing to work on cross disciplinary teams. Students will learn to communicate their findings effectively to diverse groups and apply conflict resolution, leadership, and collaboration skills effectively.

Landscape Analysis (Corvallis and Ecampus)

This option prepares students to work with Geographic Information Science technology in a natural resource fields such as wildfire ecology, land use planning, forestry, ecological restoration, and more. The pairing of the technical skills of GIScience with a disciplinary knowledge in a natural resource area will prepare students for the practical application of technical skills in the real world.

In addition, this specialization option will allow students to earn the GIScience Undergraduate Certificate through the College of Earth, Ocean, and Atmospheric Sciences concurrently with their BS degree through the College of Forestry.

Natural Resource Education (Corvallis and Ecampus)

This option will prepare students for careers as natural resource educators. Students may choose to focus on teaching in informal settings such as interpretive centers, aquariums, museums and parks or pursue a career in formal education in a K-12 classroom.

Policy and Management (Corvallis and Ecampus)

This option will prepare students for careers in the broad arena of natural resource management and environmental conservation, with an emphasis on the social and political aspects of resource issues.

Urban Forest Landscapes (Corvallis and Ecampus)

This option will help students understand the complexities surrounding the culture and management of urban forest ecosystems. It includes an examination of the economic, social, and environmental benefits and values of trees in urban areas, and the relationship between people and trees.

Wildland Fire Ecology (Corvallis and Ecampus)

This option will help students understand the nature of fire in wildland ecosystems. It includes an understanding of the dynamics of fire behavior and post-fire response.

Individualized Specialty Option – ISO (Corvallis, Ecampus, Cascades)

The Individualized Specialty Option is a student designed option that allows a student to tailor the academic program to specific goals or interests related to natural resource management. In consultation with their Academic Advisor, students will develop a written proposal for a program of study that meets their goals as well as academic requirements. Students should contact their assigned Academic Advisor for information on developing an Individualized Specialty Option.

Career Examples:

Environmental or Science Educator: Teachers don't just work with children; they can also educate adults in a classroom or in other non-traditional settings. Salary range: \$39,370-\$119,410.

Forest/Rangeland/Wildlife Ecologist: Ecologists can be teachers or researchers who study the relationships between plants and animals and their own environments. They strive to understand the natural world and teach others about it as well. Salary range: \$34,910-\$61,220.

GIS Specialist: Geographic Information Systems (GIS) specialists work with software to create and maintain data and maps. GIS specialists can work outside doing fieldwork and inside, pouring over their data on computer screens. Salary range: \$40,000-\$80,000

Naturalist: Naturalists generate interest in our world including places like parks and other natural areas. They sometimes provide interpretation for visitors, or do a variety of other interesting jobs to promote the benefits of getting outside. Salary range: \$40,000-\$60,000.

Riparian/Watershed Specialist: these specialists can work for government agencies at all levels to

coordinate and advise management activities within watersheds. Duties can include planning, education, group development, and field work completing stream assessments. Salary range: \$40,000-\$60,000.

Wetlands Restoration Specialist: Work to preserve ecological sustainability of wildlife, maintain cleanliness of water resources, remove pollutants from wetlands and step in when wetlands need restoration. They monitor wetland areas to gather data, draft reports and share what they learn with the public. They often work for government agencies or research universities. Salary range: \$20,000-\$70,000.

Interpreter or Recreation Guide: Sometimes referred to as Park Rangers, state and national parks employ interpreters and recreation guides to make visitors' experiences more meaningful and educational. Guides accompany guests on trails, scenic overlooks, and on water. They are experts on the areas in which they work, and almost always work outside. Salary range: \$30,000-\$80,000.

Wildland Law Enforcement Officer: Public lands and outdoor areas need law enforcement just like urban areas. Wildland officers keep people safe outdoors. They enforce laws concerning fire, theft, vandalism, and more. Salary range: \$25,000 - \$60,000.

Curriculum:

catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/

Advising Guide & Sample Four-Year Plans

forestry.oregonstate.edu/studentservices/majors-advising-guides

Program Overview: Renewable Materials



The sustainable economy of your future relies heavily on the use of natural materials for the products we use, the buildings we live in and the energy we consume. You will help design this sustainable future by studying the science, business, manufacturing, and design of renewable materials. Renewable materials are quite diverse—including wood, bamboo, straw, hemp, cane, giant grasses, palm and many other plant-based materials. Sustainability and efficiently meeting the demand for products and energy made from these materials requires innovative scientists, engineers, and business people who want to make a difference.

A Bachelor of Science degree in Renewable Materials requires command of a broad range of technical, science, business, and design skills. The curriculum (which is accredited by Society of Wood Science & Technology – SWST) is under continuous review and revision to ensure that content and learning objectives are synchronized with both employer expectations and advancements in technology and science.

The program's educational goals are:

- 1) Prepare students to be both environmentally conscious and economically successful by using renewable materials to meet society's needs and solve important problems.
- 2) Equip students with professional skills and knowledge to use renewable materials to make positive contributions in a world that is rapidly becoming more complicated and challenging.
- 3) Equip students to work with, and in, diverse groups of professionals on a global scale.
- 4) Inform students how to start new businesses and develop new products based on renewable materials.
- 5) Equip students with a set of skills and tools for personal development and life-long learning for a successful career in the globalized economy.

With a degree in Renewable Materials you can pursue diverse and flexible career paths where you might develop new products/services, market those products/services, manage high-tech production operations, or design new and innovative products or art. Most people will change employers several times and be expected to shoulder many different responsibilities over the course of their professional lives. After successfully completing the RM curriculum, you will possess a firm foundation of skills and knowledge on which to build your career.

Renewable Materials students complete the RM Core Courses as well as the course required for one of these options:

- Advanced Wood Manufacturing
- Art & Design
- Management & Marketing
- Science & Engineering

Advanced Wood Manufacturing Option

This option complements the Renewable Materials core curriculum that develops students' knowledge of properties and behavior of bio-based materials. It adds a strong foundation in how the products are manufactured, as well as how the manufacturing processes are designed, managed, controlled, and optimized. Students will be exposed to important advanced topics such as automation, scanning and optimization systems, computer numerically controlled (CNC) machining, robotics, 3D printing, as well as how emerging topics such as the Internet of Things (IoT) and Big Data may impact the future of manufacturing.

Art & Design Option

The Art & Design option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists, or entrepreneurs. Students will gain not only an in-depth knowledge of renewable materials, but also how these materials can function visually within the human space. In addition to the aesthetic aspect, students will gain an understanding of green building materials and green architecture. Students with the Art & Design option may also earn a minor in Studio Art by completing 27 credits of applicable course work.

Management & Marketing Option

The Management & Marketing Option provides students with the skills to manage organizations or devise new marketing strategies to compete in the global renewable materials industry. Students in this option will also earn a Business and Entrepreneurship minor. This option is oriented toward a career in business or management.

Science & Engineering Option:

Science & Engineering has a strong technical emphasis with the flexibility to tailor your coursework to earn a minor in a variety of science or technology disciplines. Students work to solve problems, create efficiencies and promote intelligent use of renewable materials. This option is oriented toward a technical career, but also provides exposure to business practices and skills. A high interest and aptitude in math and science is required.

Career Examples:

Environmental or Sustainability Manager: Environmental managers typically work for private companies. They ensure the company complies with both internal and external environmental requirements. They develop and monitor standards for keeping operations environmentally sound and in addition to complying with state and federal laws. Salary range: \$46,000-\$133,000.

Materials/Wood Product Scientist: Conduct research and learn more about the renewable materials people use every day. Salary range: \$44,000-\$73,500.

Interior Designer: Create spaces appropriate for a variety of applications utilizing a developed sense of color, aesthetics, and appropriate materials. Salary range: \$27,000-\$47,800.

Specialty Wood Marketing and Production: Scout for character wood like curly, birds eye, or spalted to sell to manufacturers or create your own character wood. Interact with developing markets across the world in changing perceptions of flawless wood-based products. Salary range: \$35,000-\$71,000.

Curriculum:

catalog.oregonstate.edu/college-departments/forestry/wood-science-engineering/renewable-materials-bs-hbs/

Advising Guide & Sample Four-Year Plans

forestry.oregonstate.edu/studentservices/majors-advising-guides

Program Overview: Tourism, Recreation & Adventure Leadership



The Tourism, Recreation and Adventure Leadership (TRAL) major explores the importance of tourism and recreation in natural settings for community development, human health and quality of life, and the sustainable use of natural resources. Students will learn about management practices and public preferences to address contemporary tourism, recreation and outdoor leadership opportunities and issues in natural settings. Studies include decision making within applicable laws and across cultural contexts, as well as communication to a variety of audiences, and successful supervision of employees and volunteers.

The TRAL program emphasizes best practices for planning, developing, and managing recreation resources in natural settings. Students learn to evaluate and integrate experiential, economic, biophysical, and social concepts. They study interaction across natural resources and the consequences of development, management and marketing decisions.

The TRAL Core curriculum introduces studies in communication, management, research methods, recreation and tourism planning, and sustainability. Each student then chooses an option where they specialize for greater depth.

TRAL students must choose one of four options within the major:

- Outdoor Recreation Management (Corvallis Campus)
- Sustainable Tourism Management (Corvallis Campus)
- Nature, Eco, and Adventure Tourism (Bend Campus)
- Adventure Leadership Education (Bend Campus)

Outdoor Recreation Management Option:

Designed for students pursuing careers as outdoor recreation planners and managers in public land management agencies and non-profit organizations at local, state, and federal levels. Students study land management, the process of permitting, and laws relevant to outdoor recreation. They create monitoring and assessment protocols for recreation resources in natural settings, and they learn to respectfully engage with individuals and groups that may have diverse perspectives and priorities regarding recreation opportunities. Students are trained to facilitate understanding and conflict resolution across these individuals and groups.

Sustainable Tourism Management Option:

Designed for students pursuing careers as tourism destination planners, developers, and marketers in government, non-profit, or the private sector, in both domestic and international locations. This option applies business concepts to tourism, and explains best practices for planning, developing, and managing sustainable nature-based tourism. Students learn to create a business plan, apply business law principles, create marketing strategies, create financial statements, explain land management goals and permit processes. They learn to plan, develop and manage sustainable nature-based tourism in a manner that integrates experiential, economic, biophysical, and social data. They explore the consequences of development of natural resources in domestic and international tourism.

Nature, Eco, and Adventure Tourism Option:

Designed for students pursuing careers as managers or owners and guides in outfitter-guide and other natural resource based commercial recreation businesses (i.e., micro-level tourism). Students learn how to use business and natural resources skills to operate tourism companies specializing in creating outdoor experiences for members of the public. Students develop skills for effective decision-making and providing safe experiences in complex and dynamic environments.

Adventure Leadership Education Option:

Designed for students pursuing careers as educators, guides and managers/owners in the outdoor and adventure education field. With nature as the classroom, students learn how to educate others about the outdoors and guide them through life-changing outdoor experiences.

Career Examples:

Outdoor Educator/Guide: Outdoor educators and guides teach the public about the outdoors and facilitate life-changing experiences in natural settings. They train and lead groups in outdoor activities like hiking, rafting, climbing, and cycling. Salary range: \$40,000-\$65,000.

Tourism Marketer/Developer: Tourism marketers and developers communicate tourism opportunities to participants as well as with the public. Salary range: \$45,000-\$85,000.

Outdoor Recreation Business Owner/Manager: These entrepreneurs of outdoor recreation business run guide services or sports facilities in the growing outdoor recreation industry. Salary range: \$40,000-\$85,000.

Curriculum:

catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/tourism-recreation-adventure-leadership-bs-hbs/

Advising Guide & Sample Four-Year Plans

forestry.oregonstate.edu/student-services/majors-advising-guides

Academic Advising

Who is my advisor?

Your Academic Advisor is assigned based upon your major. Their name is listed on your MyDegrees page. Advisor information is outlined on page 25.

When do I see my advisor?

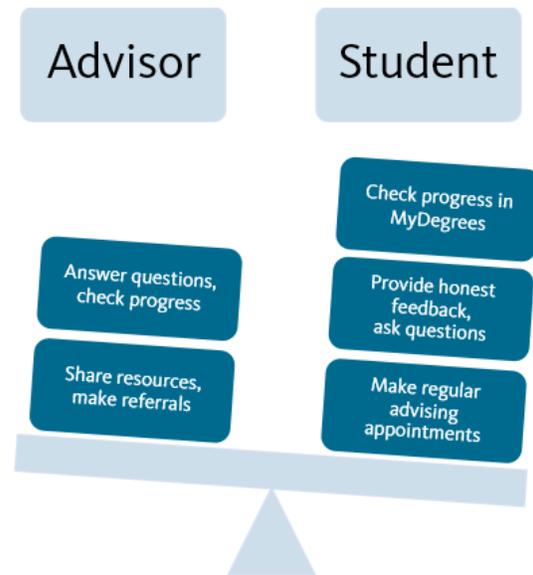
COF students are required to meet with their Academic Advisor at least once per quarter. Most students check in more frequently than that.

Where do I meet with my advisor?

We offer office, phone, or web appointments.

Advisor & Advisee Rights and Responsibilities:

The advising effort is one of mutual respect and collaboration between you and your advisor. If the process is to be effective, both you and your advisor must meet certain obligations. With that in mind, below are key responsibilities for your relationship.



As an advisee, you should...	Your Advisor will...
Understand and accept that you are ultimately responsible for your education and your own decisions.	Develop a purposeful relationship with you and be your advocate.
Be prepared for your advising appointments and ask questions.	Assist you in defining and developing your educational, career, and life plans.
Communicate your personal values, abilities and goals.	Provide timely and accurate educational information
Provide accurate and truthful information.	Promote learning opportunities that will help you define or meet personal goals and plans.
Initiate a purposeful relationship with your advisor and contact them when you need of assistance.	Assist you in preparing an academic program that is consistent with your abilities and interests.
Utilize and regularly check your OSU email account.	Monitor your progress toward educational goals.
Learn and understand OSU policies, procedures, and requirements as they relate to your academic success.	Interpret and explain institutional policies, procedures and requirements.
Follow through on action plans that you have agreed to.	Inform you of available campus resources and special services that may be relevant to your situation.

Academic Advisors



Autumn Granger

116 Peavy Forest Science Center
Office: 541-737-9135
Mobile: 541-791-6733
Autumn.granger@oregonstate.edu

Natural Resources
Renewable Materials



McKenzie Huber

116 Peavy Forest Science Center
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McKenzie.huber@oregonstate.edu

Natural Resources



Sandy Jameson

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Sandy.jameson@oregonstate.edu

Forestry
Forest Engineering
Forest-Civil Engineering



Nicole Kent

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nicole.kent@oregonstate.edu

Head Advisor



Terina McLachlain

116 Peavy Forest Science Center
Office: 541-737-2088
Mobile: 541-207-3580
Terina.mclachlain@oregonstate.edu

Natural Resources Program Manager
Natural Resources



Beth Thompson

116 Peavy Forest Science Center
Office: 541-737-1179
Mobile: 541-257-5503
beth.thompson@oregonstate.edu

Natural Resources
Tourism, Rec. & Adventure Leadership

How to Make an Advising Appointment

You should have at least one appointment with your advisor every term. Scheduling is easy.

- 1) Visit: forestry.oregonstate.edu/studentservices/advising
- 2) Find your advisor's picture. If you can't remember your advisor, you can find their name on your MyDegrees page.



Autumn Granger

116 Peavy Forest Science Center
541-737-9135

Autumn.granger@oregonstate.edu

[Schedule an appointment with Autumn](#)

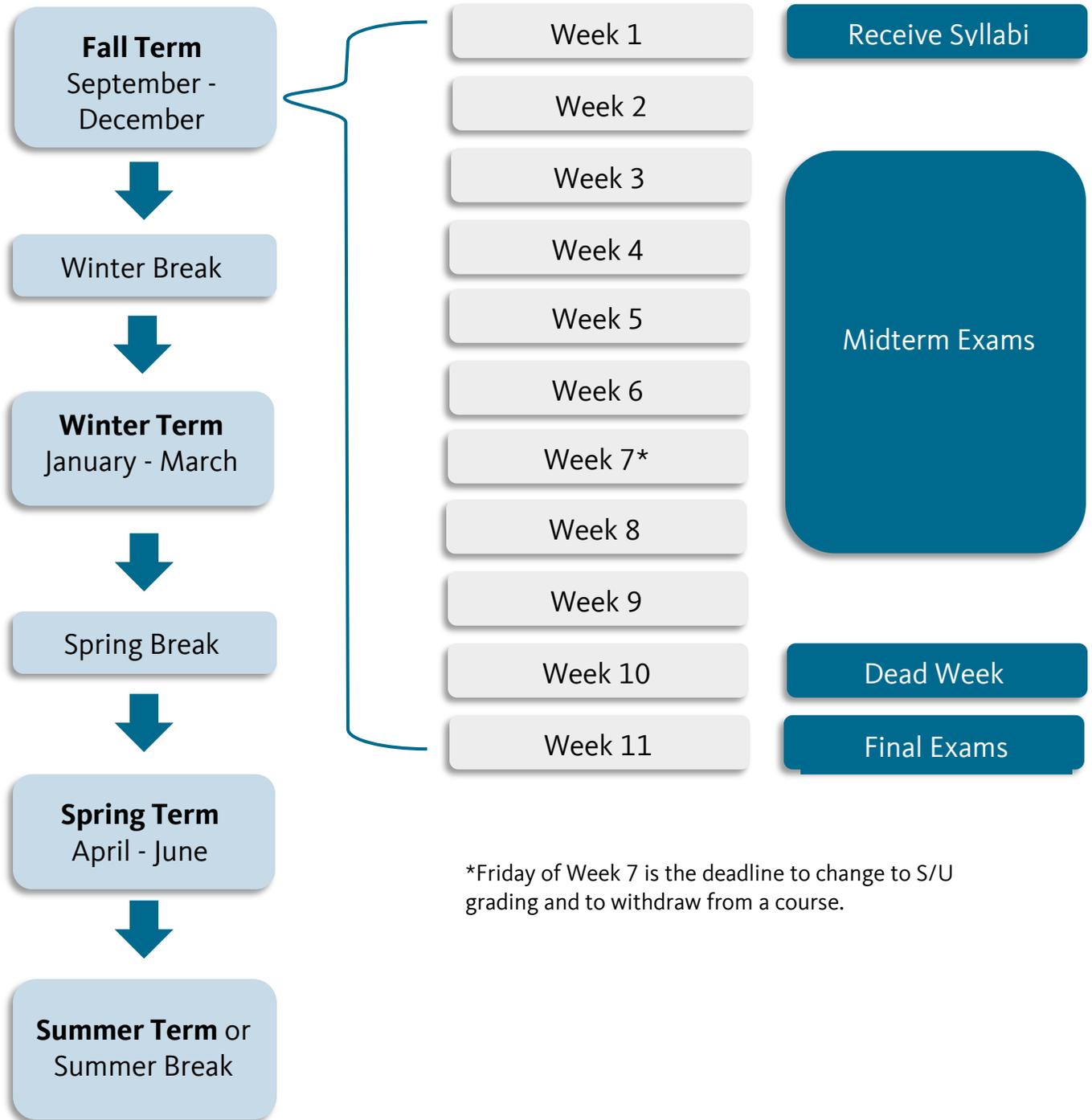
Natural Resources

Renewable Materials



- 3) Click the "Schedule an Appointment with..." link to be directed to your advisor's calendar. Choose an appointment time. You'll receive an email confirming your appointment and a reminder email 24 hours prior to your appointment.

Anatomy of the Academic Year



Sample Fall Schedule for First Year Students

What's required for my major?

My Fall Courses:

Orientation 2-3 credits	Forest/Civil Engr: CCE 101 & FE 101 Forest Engr: FE 101 & FOR 111 Forestry: FOR 111 TRAL: TRAL 251 & FOR 111 Ren. Materials: FOR 111 Nat. Resources: NR 201 in winter term	_____
Science 3 - 5 credits	Forest/Civil Engr: CH 201 Forest Engr: CH 201 Forestry: CH 231 & 261 TRAL: FES 240 Ren. Materials: CH 121 Nat. Resources: CH 121 or Biology	_____
Math 4 credits	Based on your placement (see page 29)	_____
Skills Course 2-3 credits	WR 121 – Last Names A – G COMM 111 or 114 HHS 231 and/or PAC course	_____
More Choices 1 - 3 credits	Bacc Core (See page 5) Addt'l major course Elective - examples are music, PAC, foreign language, Military Science, etc.	_____

Sample Fall Schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
8am				MTH 111 Rec	
9am	CH 231 Lec	CH 261 Lab	CH 231 Lec		CH 231 Lec
10am					
11am				CH 231 Rec	
12pm	FOR 111 Lec				FOR 111 Lec
1pm	MTH 111 Lec		MTH 111 Lec		MTH 111 Lec
2pm		WR 121	FOR 111 Lab	WR 121	
3pm					
4pm					
5pm					

ALEKS Math Placement - Understanding Your Results

Your score on a math placement test is the most current and accurate indicator that can be used to help you select an appropriate first mathematics course at OSU. You should have received your score upon completion of the online “ALEKS” math placement test.

What course can I take?

The table below gives the score ranges needed to place into OSU’s math sequences. You cannot register for a class higher than your placement indicates. Your academic advisor will assist you in identifying the most appropriate math course for fall term, and can answer questions about placement.

ALEKS Placement Score	OSU Math Class
0-14%	Preparatory math course at a community college
15-29%	MTH 065: Elementary Algebra
30-45%	MTH 103: Algebraic Reasoning
46-59%	MTH 111: College Algebra
60-74%	MTH 112: Trigonometry or MTH 241: Calculus for Management & Social Science MTH 245: Mathematics for Management, Life, and Social Sciences
75-100%	MTH 251: Calculus I

FAQ’s about ALEKS Math Placement

math.oregonstate.edu/mlc-placement-home

Registration FAQs

When can I register for OSU classes?

Registration times are based on the total credit hours you've earned at the time of registration. Those with more credit hours (seniors) will register first, followed by juniors, sophomores, etc. Veterans and active duty military students register with seniors. Your exact registration day and time can be found in MyOregonState.

How do I register for classes?

First, you must have an appointment with your Academic Advisor to plan your courses and receive your registration PIN. Appointment scheduling instructions are on page 26. Course registration is accessible via your MyOregonState portal. You'll log in with your OSU username and password and select your courses. Instructions and tutorials are available online:

registrar.oregonstate.edu/registration.

Can I take classes at a community college that will count toward my OSU degree?

Yes! Many of your Baccalaureate Core courses can be taken at a community college, and some of the lower-division (100 & 200 level) requirements for your major can be completed there as well. It's important to consult with your OSU Academic Advisor to determine which courses can be completed at a community college, and how they will transfer to OSU. Recipients of certain scholarships may be required to take a minimum number of credits at OSU each term/year (COF scholarship recipients are required to be enrolled in at least 12 credits per term, 6 of which must be at OSU).

Students wishing to take multiple courses at a community college are encouraged to enroll in OSU's Degree Partnership Program (DPP). See page 47 for additional DPP information.

How do I drop or withdraw from a course?

Details about dropping or withdrawing from a course are available here:

registrar.oregonstate.edu/dropwithdraw-course.

Withdrawing from the Term

Students needing to withdraw from all their courses can withdraw from the term. Details here:

registrar.oregonstate.edu/withdraw-term

Academic Difficulty

If a class isn't going well...

- 1) Consult the Instructor for suggestions about improving your performance. They can answer questions, provide practice problems or study resources, and even connect you with a tutor if you want one.
- 2) Consult your Academic Advisor about options for alternative grading. Depending on the course, and the time in the term, you may be able to change from A-F grading to Satisfactory/Unsatisfactory (S/U) grading. There may also be an option to withdraw from the course. You can find more information about S/U and W grading in the Terminology section (pp. 49-52)

S/U, Withdraw, or stay A-F?

Make sure to consult either advising or financial aid before making a change in your schedule:
 Int'l Students: Visa Issues
 Student Veterans: GI Bill Issues
 Student Athletes: Compliance
 Financial Aid Recipients: PACE

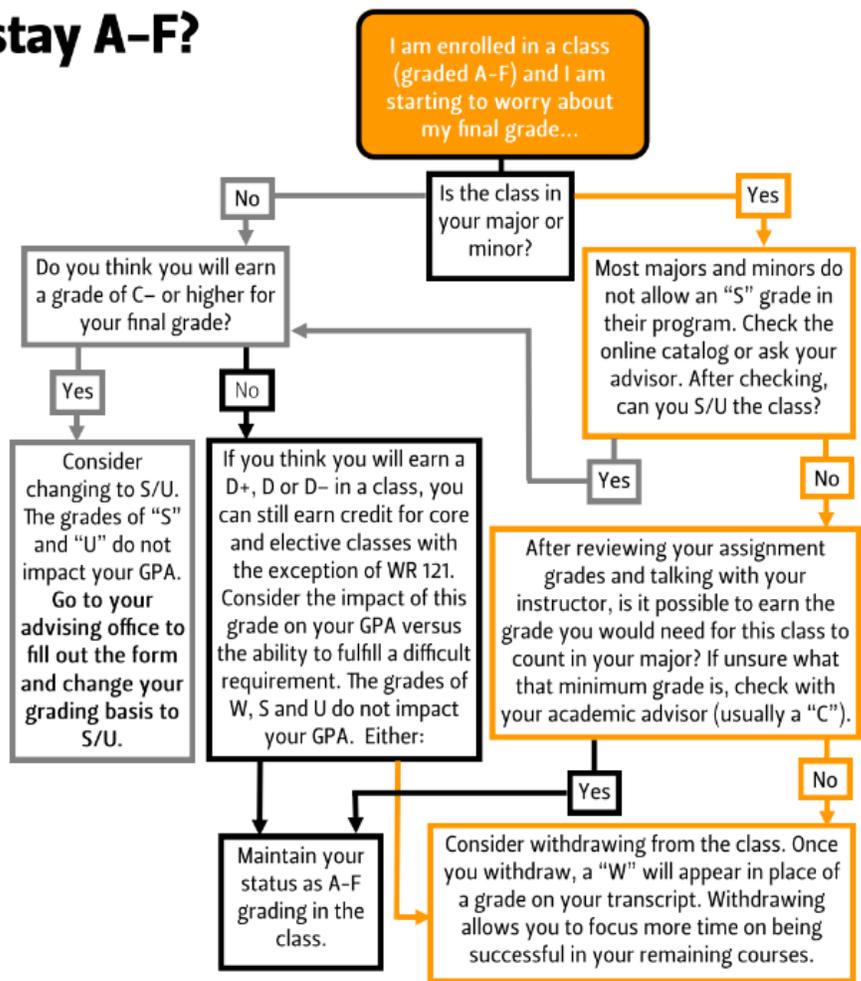
Deadline: Students must decide to S/U or W from a class by Friday of the seventh week of the term. This schedule varies for summer term.

Repeated Courses: If you repeat an OSU course, the grade from each attempt will appear on your transcript but only the **SECOND** attempt will count toward your credits, requirements, and GPA. AR 20.

S/U policy: students may use a maximum of 36 satisfactory, "S," credits toward degree requirements. Grades of A+ through C- will earn the grade of S and credit but the "S" does not impact your GPA. Grades of D+ through F will result in the grade of "U" which will not earn credit or impact your GPA. AR 18.

Withdraw Policy: You may withdraw from a maximum of 12 individual classes throughout your undergraduate career at OSU. AR 12.

Calculate your GPA:
<http://oregonstate.edu/registrar/gpa-calculator>

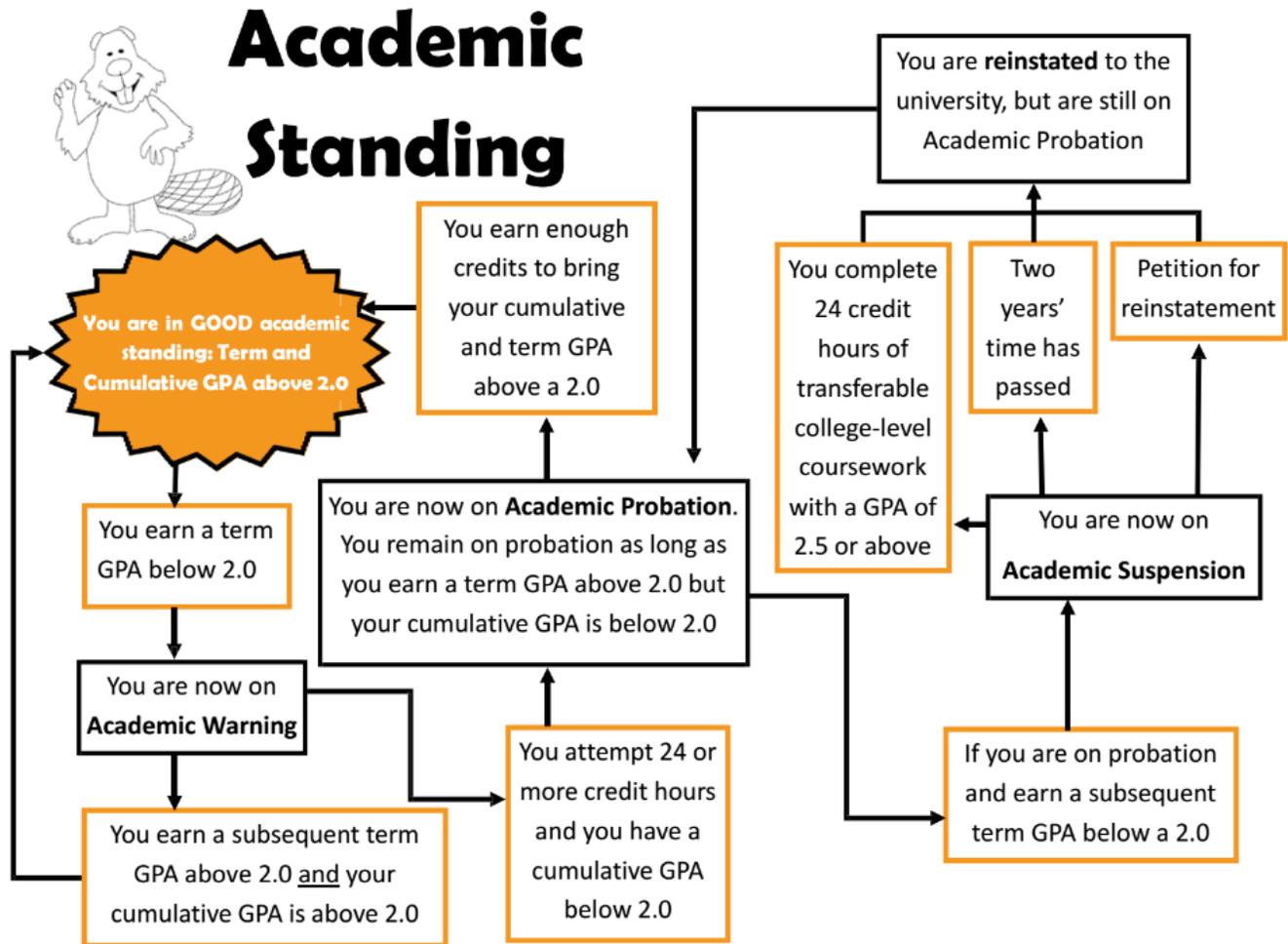


Academic Warning & Academic Probation

All students begin their OSU career in good academic standing. Keeping your term and cumulative GPAs above 2.00 will help you remain in good academic standing.

In the event that your OSU GPA or term GPA drops below 2.00, you may be placed on Academic Warning or Academic Probation. The full policy is available in Academic Regulation #22: catalog.oregonstate.edu/regulations/

Students are strongly encouraged to consult with their Academic Advisor if concerns about academic standing arise.



Resources

College of Forestry Student Services Office

116 Peavy Forest Science Center

541-737-1594

forestry.oregonstate.edu/studentservices

- Academic Advising (pp. 24-25)
- Career & Employment Opportunities (p. 39)
- Fernhopper e-Newsletter blogs.oregonstate.edu/fernhopper/
- International Opportunities (pp. 41-44)
- FERN Student Center
- Student Events & Activities (p. 34)

Online Resources:

main.oregonstate.edu

- Canvas
- MyDegrees
- Google Apps for OSU
- OSU Catalog & Schedule of Classes
- Zoom

FERN Center

The FERN Center is the College of Forestry's student center. The center includes computers, quiet study space, lounge area, and a variety of tools and resource materials.

Note: FERN Center hours are affected by University building closures in the COVID-19 pandemic. Updated hours will be posted online.

Located in 113 Peavy Forest Science Center

541-737-4160

cofslc@oregonstate.edu

forestry.oregonstate.edu/studentservices/self-learning-center

Student Events & Activities

Note: Events and activities in the 20-21 academic year are subject to change due to COVID-19 pandemic.

Annual Ring	Annual Ring is the College's traditional welcome event for new undergraduate students. It's a chance to socialize with fellow students COF faculty and staff. Annual Ring is held during Welcome Week (prior to the start of Fall term).
Mentored Employment Program	The Mentored Employment Program (MEP) provides COF undergraduate students paid opportunities to work with faculty on research projects and/or field experiences. These experiences enhance students' professional skills and build mentor/protégé relationships while assisting faculty with important work. Priority funding is available to students from underrepresented groups or underserved backgrounds.
Job Shadow Program	The College of Forestry provides prospective and current students the opportunity to get an up-close look at various forestry and natural resources careers through a job shadow experience. The program connects students with participating employers for a chance to learn more about career paths available after graduation.
Experiential Learning Funds	Experiential learning funds are available to help students participate in conferences, workshops, seminars or similar activities enhance their education, professional development, and leadership skills.
Lunch with Leadership	COF students are encouraged to join Dr. Randy Rosenberger, Associate Dean for Student Success, for lunch once per term. Dr. Rosenberger enjoys meeting with students share ideas, concerns, and information about current events in the college. This is a great way to make your voice heard to the COF leadership team.
Workshops	Student Services coordinates a variety of workshops. Topics include resume writing, salary/benefit negotiation, how to apply for state/federal job, professional networking, and more.

Clubs & Organizations

The College of Forestry supports several student clubs and organizations. Club leaders and contact information are available online:

forestry.oregonstate.edu/studentservices/student-clubs

Forest Utilization Society (FUSE)

The goal of this student organization is to bring a spirit of fellowship to students, faculty, and employers, and to promote awareness about forest products and forest products issues. Officers include a president, vice-president, secretary/treasurer, and project coordinator. Membership is open to anyone interested in forest products. Activities include social events, hosting guest speakers, and field trips to local companies and mills.



FUSE Members at the Inter-Club Bowling Tournament

Forestry Club

The Forestry Club is primarily an informal social group providing a means for interaction between different majors within the forestry profession, and promoting student interaction and activities with regard to forestry. The club organizes and sponsors numerous intercollegiate events, such as the logging sports team, forester's ball, woodcuts, forestry club Olympics, charity events, ski trips, and outdoor recreation activities. The club also works closely with the College administration to assist with College events.



Forestry Club Members at Fall Frost

A current and future aim of the club is to create a closer relationship to the local community by sponsoring charitable fundraisers and donations. The Forestry Club is rich in tradition and has provided many valuable experiences for its members outside the academic arena.

Forest Stewards Guild

Founded in 2018, the Forest Steward Guild is a student chapter of the national professional organization of forest stewards, associated natural resource professionals, and affiliates who are passionate about restoring and sustaining the integrity of our forests while meeting the needs of the communities that rely on them. All Guild members share a love of forests, and professional members are actively involved in land management.



Society of American Foresters (SAF) Student Chapter

OSU was granted a charter by the Society of American Foresters (SAF) in the fall of 1980 to form a student chapter. Student members must be undergraduate or graduate students in programs closely related to forestry and natural resources. Both faculty and students are welcome.

The goals of the SAF Student Chapter are to promote professionalism in the field of forestry, encourage interaction between professional foresters and students, provide opportunities for taking part in active forest management projects, and help educate the public about forest resources and their management. In addition, the SAF Student Chapter strives to build fellowship among students and provide an opportunity to openly discuss and debate forestry issues.



SAF Members represent OSU at their National Convention

SAF activities include a job fair, managing a Christmas tree farm, hosting guest speakers, participation in community natural resource education, and travel to State and National SAF Conventions.

Xi Sigma Pi Forestry Honor Society

Xi Sigma Pi, a forestry honor society, was founded at the University of Washington in 1908. The Zeta Chapter was established at OSU in 1921.

The society's objectives are "to secure and maintain a high standard of scholarship in forestry education, to work for the up-building of forestry, and to promote productive relations among earnest workers engaged in forestry activities."



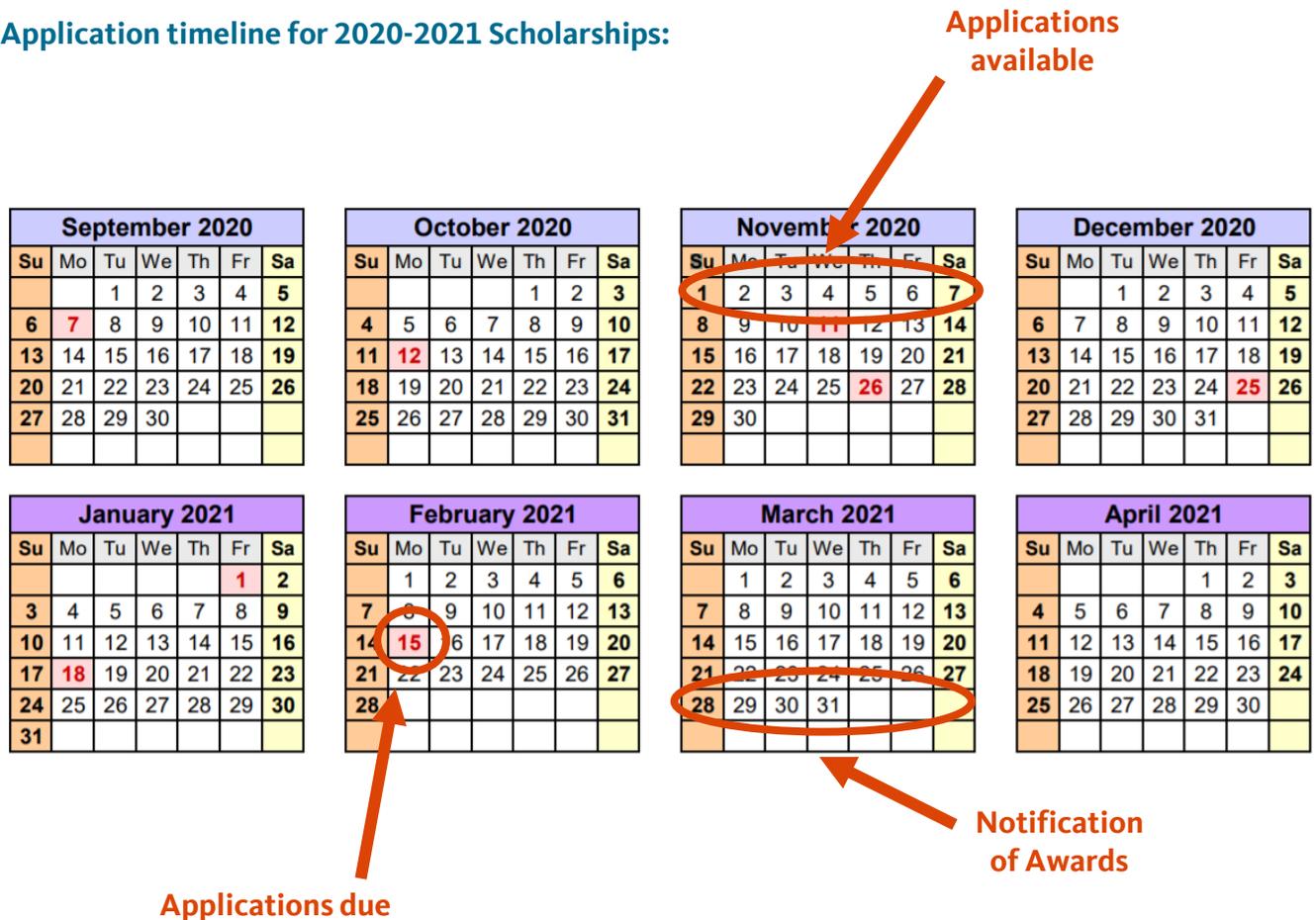
College of Forestry Scholarships

Through the generosity of our donors, the college awards over \$500,000 in undergraduate scholarships each academic year. Individual awards range from \$1000 to \$11,000. While scholarships are generally based on academic performance, some are specific to need, degree program, or other criteria set by our donors, so all students are encouraged to apply. New and current COF students are eligible to apply for COF scholarships.

Scholarship applications are generally available in early November and due on February 15th. Additional information and the application are available online:

forestry.oregonstate.edu/student-services/scholarships

Application timeline for 2020-2021 Scholarships:



Work Experience Requirement

Students in the following majors must complete a minimum of six months of work experience as part of their degree requirements:

- Forestry
- Forest Engineering
- Forest/Civil Engineering
- Renewable Materials
- Tourism, Recreation & Adventure Leadership

Students in Natural Resources are not required to complete work experience, but it is highly recommended.

Procedure for documenting work experience:

1) Students complete the Work Experience Practicum form available online:

forestry.oregonstate.edu/studentservices/work-experience

- 2) Employer evaluation requests are routed to the student's supervisor to evaluate performance and confirm dates of employment and number of hours worked.
- 3) Completed employer evaluations are reviewed and evaluated by a designee from the student's academic department for certification.
- 4) Certified Work Experience Practicum Forms are reviewed and evaluated by your academic advisor, and documented in MyDegrees.

All work experience forms should be completed at least three months (one term) prior to your expected graduation date to allow adequate time for employer evaluations and updating of your student record.

Career & Employment Opportunities

Where Can I Find Jobs & Internships?

1. COF Job Board: jobs.forestry.oregonstate.edu (Seasonal, internship, part-time, and full-time job announcements are posted on the COF website.)
2. Job Search Resources: forestry.oregonstate.edu/student-services/employment-opportunities
3. Handshake: oregonstate.joinhandshake.com (OSU-wide job board for on- and off-campus jobs and internships)

Come to the College of Forestry Career Fair

Each fall term, COF hosts a career fair that attracts employers from private industry (timber, forest products, natural resources management, recreation companies, etc.), nonprofits, and government agencies (like U.S. Forest Service). These recruiters look for interns, volunteers, seasonal workers, and part- or full-time employees. The fair is a great learning and networking experience for all years, first year through graduation. forestry.oregonstate.edu/student-services/career-fair

Many Career Resources Are Offered Online

Whether you are on campus or across the country, watch the Handshake events list every term for career-building webinars, livestreamed panels with employers, and more. And check out the virtual career guide, suite of tools, videos, and more on career.oregonstate.edu.

On-Site Interviews

The College of Forestry provides employers the opportunity to conduct interviews with students at the college. These opportunities are announced in the *Fernhopper* e-newsletter that goes to all students.

Career Advising: Appointments and Drop-In Hours

Whether you want to explore career options, talk about internships, practice interviewing, or get help with your resume and cover letter, Britt Hoskins is your partner in your unique career journey.

Britt Hoskins, College of Forestry Career Advisor
116 Peavy Forest Science Center
541-737-4085
Schedule appointments in-person or via Zoom on Handshake
(oregonstate.joinhandshake.com)

You can also drop in to the Career Development Center on the first floor of the Kerr Administration Building to get your resume or cover letter reviewed by a peer career assistant. Hours are 10 a.m. – 3 p.m., Monday – Friday during the school year.

Experiential Education

The College of Forestry offers several different programs designed to allow students to gain experience in the fields of forestry and natural resources and to develop relationships with faculty and staff.

forestry.oregonstate.edu/student-services/experiential-education

Mentored Employment Program

Through generous support from forestry friends, alumni, and other stakeholders, this program offers paid opportunities for undergraduate students to form meaningful professional relationships with faculty through mutually beneficial and rewarding research experiences. Any undergraduate or post-baccalaureate student in good standing, enrolled in any COF undergraduate degree program, on any campus, can apply. Funding varies year to year.

These experiences are typically take place during the academic year, and are less than 20 hours per week. Projects are chosen during fall term, begin as early as winter term, and can last through spring term. Projects are supported if they clearly benefit both the student and the faculty member and contribute to the mission of the College of Forestry (teaching, research, outreach, Extension, and service). Please contact Brooke Harrington (541-737-1593, brooke.harrington@oregonstate.edu) for details.

Job Shadow Program

The Job Shadow Program offers students a chance to explore a variety of career paths by shadowing an employer as they do their job, answer questions, introduce you to the colleagues, and offer insight about their position. Job shadow experiences are an excellent way to start learning more about careers in forestry, natural resources, wood products and outdoor recreation. Learn more about this program by visiting our website forestry.oregonstate.edu/student-services/job-shadow-experiences or contacting Brooke Harrington (541-737-1593, brooke.harrington@oregonstate.edu)

Forest GUMP

Forest GUMP (Graduate Undergraduate Mentorship Program) is a mentorship and employment program provided by the Graduate Student Council that offers College of Forestry graduate and undergraduate students the opportunity to engage in mentorship and research opportunities. The Mentorship Program pairs graduate and undergraduate students based on career and academic interests. Pairs will meet regularly during the academic year to discuss a variety of topics including classes, grad school interests, career paths, etc. The Employment Program is a summer term opportunity for undergraduates to work with graduate students on research projects. Details about Forest GUMP are available on the website forestry.oregonstate.edu/student-services/forest-gump. Contact Brooke Harrington (541-737-1593, brooke.harrington@oregonstate.edu) for details.

International Opportunities

Branch Out: Study, Intern, Research Abroad

Kerry Menn, International Programs Coordinator
116 Peavy Forest Science Center |
Kerry.menn@oregonstate.edu

Michele Justice, Director of International Programs
116 Peavy Forest Science Center |
Michele.justice@oregonstate.edu

forestry.oregonstate.edu/international
cofinternational.weebly.com/



Renewable Materials major Quinn Smesrud in Alpine Europe

It goes without saying that forestry is a global field; whether you're learning about strategies in forest management, investigating sustainability in forest ecosystems, interested in the connections between people and forests, or focused on innovative development in wood technology, you're going to want to know what's going on worldwide. The COF strongly believes that international experience is critical to your education, and is dedicated to making international experiences accessible and affordable for its students. Whatever your major or financial situation, we will work with you to find the exchange, study abroad, research or internship opportunity that meets both your needs and goals.

Providing international experiences to our students is a core value to our College, and these experiences can greatly influence both the mindset of our students and the marketability of their degrees.

There are programs tailored to every major, and international experiences are an integral part of your academic career – with advanced planning, participating in one of these life-changing opportunities will not lengthen your degree program.



Students and International Programs Coordinator Kerry Menn in Chile, Spring 2018

Funding international experiences: At first, international study might appear to be outside the financial reach of many students, but that is not really the case. For all of our students, both scholarships and financial aid can be applied to international programs; COF has set aside funding specifically for this type of experience. For non-resident and international students, these opportunities can be even more affordable, as they are often close in price to current in-state tuition. Visit the Funding Your International Experience page to learn more:

forestry.oregonstate.edu/international/funding-your-international-experience.

“Travelling to Chile was my first time ever leaving the United States or speaking to people in a language other than English. Throwing myself into such a different environment and applying cutting edge research techniques was terrifically challenging, fulfilling, and enlightening.”

*Johnathan Tenny, Forest Engineering
Research Assistant with Dr. Andres Iroume at Austral University, Valdivia, Chile*

Program Types

On all programs offered by CoF or other units at OSU, students can normally use financial aid and scholarships to help cover program costs. All of the experiences below are credit bearing.

Faculty-led programs: Generally 1-4 weeks in length with a specific thematic focus, OSU faculty leads these programs during the summer, winter break, and spring break. Many include studying with peers or faculty from partner universities abroad. The College of Forestry offers several of these programs each year, including programs in Alpine Europe, Malaysian Borneo, Costa Rica, Chile, and New Zealand.

International Internships: The College of Forestry has its own international internship program, with placements all over the world. Students may also consider IE3 Global Internships. Most internships are a minimum of ten weeks in length, and are available in all majors. These internships satisfy College work experience requirements.

Exchange programs: Typically semester or academic year experiences, where students are integrated into host university academic models and student communities. Offer the broadest range of available courses, and are among the most affordable opportunities (for the number of credits earned/duration of time abroad), as cost is close to in-state OSU tuition. A few of our key exchange partners include the University of Canterbury, New Zealand; Fachhochschule Salzburg, Austria; École Supérieure Du Bois, France; and the University of British Columbia, Canada.

Conferences and Research: CoF also provides funding support through the Dean's Fund for International Engagement to students who are selected to present at conferences, or who are conducting independent research.

Other program opportunities exist – talk to Kerry Menn about all of your options.

Program Durations

Short-term: Faculty-led programs make up the majority of short-term programs (typically 1-4 weeks). These programs may have a single location, or travel to different sites. These are offered during winter, spring and summer breaks.

Term programs: International internship opportunities within the College of Forestry span 1-3 terms in duration and usually align with the OSU quarter system calendar. Outside of the College of Forestry, some providers have programs that last a ten-week term, and are designed to align with OSU's academic calendar.

Semester programs: As many universities worldwide are on a semester system, the majority of exchange programs (and many study abroad programs) are linked to this model. For OSU students, this generally means that students studying abroad in the Fall are away for part of the summer and one term, and those abroad for the Spring are away during Winter and Spring terms from OSU.

Year-long programs: Most exchanges and study abroad programs are able to accommodate students for an entire academic year.

Program Providers

College of Forestry: The College offers a range of exchanges, faculty-led programs and internships specifically designed for Forestry students. These are by far the most popular, and usually the most affordable, of your international options.

Oregon State University: Exchanges and faculty-led programs are also developed on a university-wide basis and by other Colleges within the University.

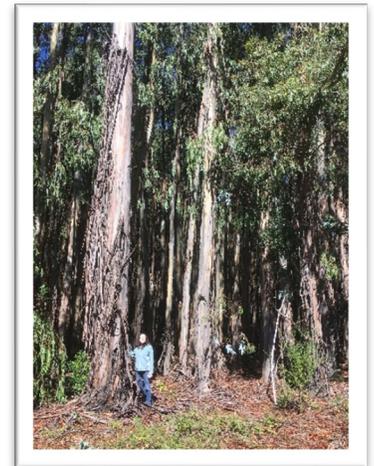
IE₃ Global: IE₃ Global provides internship, research, exchange, and faculty-led programs to students throughout the Northwest and beyond.

Co-Sponsored Program Providers: Organizations (profit and non-profit) external to OSU that have been approved by OSU to offer study abroad programs to OSU students. Providers offer the full range of program experiences listed above, with the exception of exchanges. These include SIT, CIEE, API, Semester at Sea, and several others.



Natural Resources student Laura McWhorter studied ecotourism, conservation, and sustainability on family farms in Costa Rica through a faculty-led program. “I was profoundly impacted by the family we shared time with. They taught us sustainable practices, and I was moved by how passionately they loved and protected the land. This program gave us experiences that very few people would be able to seek out on their own. We caught a glimpse of rural Tico culture, were welcomed as a family, and we explored landscapes that were not on any tourist map. It was unforgettable and breathtaking.”

Forest Engineering student Corinne Walters participated in a faculty-led program in Chile and an internship in New Zealand with one of the country’s largest timber companies. For her, being connected to the international forestry industry was the most important part of her internship. “There are lots of similarities between the forest industry in the Pacific Northwest and New Zealand. If I have a question, I can call up my old supervisor or coworker and see what he or she thinks about an issue or technique. The forestry community is close-knit and brings people together all over the world.”



Natural Resources student Kaden Ashdown interned in Malaysian Borneo for 12 weeks with a professor at the University of Malaysia Sabah. There he worked on a variety of projects from nursery building to seed collecting in the jungle. He got experience in field research methods in every environment. “Each project was a unique one and I relished the variety of topics, research methods and field procedures that I was able to sample.”



Study, Research, Intern Abroad with CoF



Gathering information - explore your options

Meet with CoF International Programs (CoF Intl) to learn basics about options, program selection/application as soon as possible!

Meet with academic adviser to establish academic goals for overseas experience and optimal time and duration of program.

Select program and term/semester

Meet with CoF Intl to discuss program details (fit with goals, application process, finances, etc.). Complete this step 6 months-1 year in advance of program.

If program has multiple course offerings (e.g., exchange), meet with academic adviser to select specific courses to be taken.

Apply to program

Complete application process via OSU GO portal. Most programs require transcripts, essays, and references. Many require interviews. Complete this step 3-6 months in advance of program.

Apply to both CoF sources and external funding sources for scholarships to support program. Keep an eye on deadlines, as they may be before program acceptance!

Student accepted into program

After OSU GO approval, complete secondary program application, if required (e.g. exchange). Confirm housing options and make travel arrangements the term before the program starts.

OSU GO sends program cost estimate to Financial Aid office, which determines aid amount for overseas study. Meet with Financial Aid office if necessary.

Pre-departure

Apply for visa (if required). Attend required orientations. Visit travel clinic, arrange for any needed medications/vaccinations the term before the programs starts.

Confirm payment arrangements. Plan your financial arrangements for your time abroad. Get PIN from academic adviser. Register with CRN provided by OSU GO. Pack!

While abroad

Understand academic requirements. Exchanges: send course syllabi to CoF Intl for establishment of equivalencies, prior to articulation by the OSU Registrar.

Exchanges and Internships: Get PIN from academic adviser so you can register for each term you're away and for the term you return to OSU.

Upon return to OSU

Attend any returnee meetings, debrief, and encourage others to go! Give feedback to CoF Intl and academic advisers.

Exchanges: host university will send transcript to CoF Intl or OSU GO. Once course equivalencies are approved, they will report credits and grades to registrar.

Computing Support

College of Forestry students have access to support through the Forestry Computing Helpdesk
209 Peavy Forest Science Center
541-737-2152
Monday - Friday, 8:00am - 6:00pm
helpdesk.forestry.oregonstate.edu

Computer Lab Locations: Richardson 203 and Peavy 113, 215, 217

Remote Access to Software:

Short list of software: ArcGIS, Mathematica, R, SAS, SPSS. While not all Forestry specific applications are available, it is an option when you are not in a lab. Additional information can be found at is.oregonstate.edu/service/citrix-apps

Remote Access to Lab Computers:

In addition to Citrix you may access Forestry Computer Lab computers remotely. You will need a Windows PC or Mac for access. Unlike Citrix, you cannot access the resources from a tablet. Start at helpdesk.forestry.oregonstate.edu/lab-availabilty to see which computers are open and instructions on using Remote Desktop.

Computer Buying Guide:

If you are planning to upgrade or purchase new computer hardware such as laptops, software, or accessories, we encourage you to consult with the Forestry Computing Helpdesk. COF staff is willing to assist you with your purchase to ensure that you order the correct equipment that matches both our support requirements and your computing needs.

Recommended Desktop

Processor: Intel® Core™ i7 Quad Core 7770 (3.60GHz, 8M)
Memory: 16.0GB DDR4 Non-ECC SDRAM, 2400MHz, (4DIMM)
Keyboards: USB Keyboard, No Hot Keys
Video Card: 1 GB ATI or Nvidia, Dual Monitor DVI or DP
Boot Hard Drives: 240 GB SSD or larger
Floppy Drive: No Floppy Drive
Operating System(s): Genuine Windows® 10 Professional
Mouse: USB 2-Button Optical Mouse with Scroll
Integrated Network Adapter (NIC): Integrated Gigabit (10/100/1000)
Removable Media Storage Devices: 8X Slimline DVD+/-RW
Audio Solutions: Integrated AC97 Audio
Hardware Support Services: 3 Year Limited Warranty plus 3 Year NBD On-Site Service

Recommended Laptop

Processor: Intel® Core™ i5-8400H (2.5GHz, 8M cache)
Display: 14 inch Wide Screen (1366x768) LED Display
Video Card: 512MB NVIDIA NVS 3100M
Memory: 8.0GB, DDR4-2666 SDRAM, 2 DIMMS
Hard Drive: 240 GB SSD or larger
Operating System: Genuine Windows® 10 Professional
AC Adapter: 90W AC Adapter
Module Bay Devices: 8X DVD+/-RW
Wireless Networking Options: Wireless™ 802.11AC dual band Card
Batteries: 4Cell Primary Battery
Carrying Case: Large Nylon Carrying Case
Hardware Support Services: 3 Year Limited Warranty plus 3 Year NBD On-site Service and Accidental Damage Coverage

Degree Partnership Program

Through OSU's Degree Partnership Program (DPP), you can be jointly admitted and enrolled concurrently at Oregon State University and any of our community college partners. Students complete a short application through the OSU Admission application portal. DPP students can be at the community college for up to 10 terms before enrolling in OSU classes, but maintain their active student status at OSU.

Benefits of DPP:

- Concurrent enrollment at OSU and the community college
- Access to 100 and 200-level courses (online or on-campus) at OSU and the community college, providing scheduling flexibility and tuition cost savings.
- Work with your community college advisor and your OSU advisor at the same time
- No application fee for OSU student
- Financial aid counts enrollment at both institutions for the same term (for qualified students)
- Increased flexibility in scheduling with access to more classes through the community college, on site at OSU, and with online courses offered through the OSU Ecampus
- Access to libraries, computer labs, and other services on both campuses (subject to an additional fee)
- Eligibility to live in on-campus residences and participate in campus dining plan.
- Transcripts automatically sent from the partner college to OSU at the end of each term as long as there are no holds on your account.

Community College Partners

Blue Mountain Community College	Linn Benton Community College
Central Oregon Community College	Mt. Hood Community College
Chemeketa Community College	Oregon Coast Community College
Clackamas Community College	Portland Community College
Clatsop Community College	Rogue Community College
Columbia Gorge Community College	Southwestern Oregon Community College
Hawaii Community College (Big Island)	Tillamook Bay Community College
Kapi'olani Community College (Oahu)	Treasure Valley Community College
Klamath Community College	Umpqua Community College
Lane Community College	University of Hawaii, Maui College (Maui)

To apply for DPP:

Students who are already admitted to OSU fill out a short application to add DPP. Application instructions are available here: partnerships.oregonstate.edu/newly-admitted-current-students/application-instructions

More Information:

541.737.9472

partnerships@oregonstate.edu

Partnerships.oregonstate.edu

Academic Calendar & Deadlines

The Academic Calendar is maintained by the Office of the Registrar, and is available online: registrar.oregonstate.edu/osu-academic-calendar/

Fall 2020 Academic Calendar

Term Dates	Sep 23 - Dec 4
Priority Registration Phase 1 (Waitlist Not Available)	May 17 - Jun 3
Priority Registration Phase 2 (Waitlist Available)	Jun 4 - Oct 4
Classes Begin	Sep 23
Last Day To:	
Add a Course Online without Department Approval	Oct 4
Drop a Course (100% Tuition Refund)	Oct 4
Audit a Course	Oct 9 by 5pm
Add a Course Online with Department Approval	Oct 11
Withdraw from a Course (50% Tuition Refund)	Oct 18
Change the Grading Basis of a Course	Nov 13 by 5pm
Withdraw from a Course (No Refunds Available)	Nov 13
Withdraw from Term	Dec 4
Apply for Graduation (Graduate Students Only)	Dec 4
Classes End	Dec 4
Finals Week	Dec 7 - Dec 11
Fall Term Ends	Dec 11
Grades Available Online	Dec 16

Terminology

Academic Warning or Academic Probation: Academic Warning (AW) and Academic Probation (AP) are part of the University's Academic Standing terminology. The full Academic Standing policy (Academic Regulation #22) can be found online: catalog.oregonstate.edu/regulations/.

Oregon State University expects students to maintain satisfactory academic progress toward degree completion. At the conclusion of each term, grade-point averages are calculated and academic standings determined for students seeking a baccalaureate degree according to the criteria outlined below. Students whose standings evidence a lack of satisfactory progress will be warned of this condition and advised to seek help from their academic advisors.

- 1) **Academic Warning:** Students with a term GPA below 2.0 will be placed on Academic Warning.
- 2) **Academic Probation:** Students who have attempted¹ 24 or more credits at OSU and have an OSU cumulative GPA below 2.0 will be placed on Academic Probation. Students who attain a cumulative GPA of 2.0 or better are removed from Academic Probation.
- 3) **Academic Suspension:** Students who are on Academic Probation and have a subsequent term GPA below 2.0 will be placed on Academic Suspension. Academic Suspension is recorded on the student's academic record. Students who are academically suspended are denied all the privileges of the institution and of all organizations in any way connected to it, including any university-recognized living group.
- 4) **Reinstatement to the University:** Suspended students will be considered for reinstatement to the university after two years or completion of a minimum of 24 quarter credits of transferable college-level work at an accredited college or university, with a GPA of 2.5 or above.

¹ An attempt comprises a final grade in a course where the grade is: A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, S, U, P, NP, I/Alternate Grade (where the Alternate Grade is one of these grades), W.

Adding a Class: Students can add classes through MyOregonState until the end of the first full week of classes. Adding a class in the second week of the term requires special permission from the instructor.

Canvas: Canvas is the learning management system used for all Oregon State University courses. You will access Canvas to get course information like the syllabus, readings, and assignments. You might also upload homework or take quizzes in Canvas. You can view your grade in Canvas as well.

Catalog: The catalog is the official record of information about the University, colleges and departments, degrees and programs, and policies. It is updated annually and accessible online: catalog.oregonstate.edu/. You will be required to fulfill the degree requirements in the catalog for the year in which you matriculate. Changes made to programs in subsequent catalogs should not affect your curriculum.

Class Standing: Students are classified as Freshman/First-Year, Sophomore, Junior, and Senior according to the number credit hours completed.

First-Year	1-44 credits
Sophomore	45-89 credits
Junior	90-134 credits
Senior	135+ credits

Your earned credits also have an impact on when you register: the more credits you have, the higher you are on the priority registration list each term.

COVID-19:

Information about the University's response to the COVID-19 pandemic: covid.oregonstate.edu/ COF-specific resources and information: forestry.oregonstate.edu/student-services/covid19-resources

Deficient in Foreign Language (DFL): If you were admitted to OSU without meeting the foreign language requirement from high school, you will see a foreign language requirement in MyDegrees. In order to fulfill the requirement and graduate from OSU, you will have to complete two terms of a foreign language with grades of C- or higher. admissions.oregonstate.edu/admission-requirements-0

Degree Partnership Program (DPP): DPP allows you to be a student at OSU and a participating community college simultaneously. Sometimes referred to as dual-enrollment. See page 47 for more information on DPP.

Dropping a Class: Students are allowed to drop a class until the end of the first full week of the term, and perform the drop in MyOSU. Dropped courses will not appear on your transcript, and you will be refunded a pro-rated portion of the tuition for the course you dropped. Students cannot drop classes after the deadline, but do have the option to withdraw from the class.

Equipment Room: See "Instrument Room"

Fernhopper: Historically, Pacific Northwest loggers and foresters were known as Fernhoppers. The name has continued as a tradition at OSU and is given to all OSU College of Forestry graduates. It is also the name College of Forestry's weekly e-newsletter (p. 33).

FERPA: FERPA is the Family Educational Rights and Privacy Act of 1974. The legislation protects the privacy of your student records and regulates how that information is utilized. University employees are prohibited from sharing any information about you or your educational record with anyone but you. Should you wish to allow your parent/guardian/spouse to have access to your student record, you will have to complete a waiver of your FERPA rights. OSU's FERPA waiver can be accessed here: registrar.oregonstate.edu/sites/registrar.oregonstate.edu/files/forms/em-ferpa-release-form.pdf

Field School: Field School is an intensive two-week hands-on experience that prepares students in Forestry, Forest Engineering, and Forest/Civil Engineering for pro-school. It is required of all students entering the professional program, and takes place in the summer (two weeks prior to the start of fall term, junior year).

Holds: A hold might be placed on your account to block your ability to register or to request

transcripts. Holds can be placed by a variety of offices and are usually imposed for failure to comply with a policy or procedure. You will be able to view your holds on your MyDegrees page, and must contact the office that placed the hold in order to have it removed.

Instrument Room: Located in 169 Oak Creek Building, the instrument room is where students check out equipment for field labs and classes. Equipment available for check-out includes hard hats, diameter tapes, compasses and clinometers. A full list of available equipment is posted in the instrument room. Also known as the “equipment room.”

Override: An override is a code entered into the registration system to allow you to sign up for a class for which you might otherwise be prevented. For example, if your transfer credit for MTH 111 isn't showing up online, you might get a prerequisite error when attempting to register for MTH 112. The Math Department could issue you an override and you would be able to register for MTH 112.

PIN: A six-digit personal identification number used to unlock the registration system and sign up for classes. College of Forestry students will receive a new PIN every term, and obtain the PIN by meeting with their Academic Advisor.

Phase I & Phase II Registration: Registration is organized into two phases. Phase I is your first opportunity to register for classes, and you are allowed to sign up for a maximum of 16 credits. Phase II follows Phase I, and is your opportunity to add additional credits or sign up for the waiting list for a course. There is a 24-hour period between the end of Phase I and the beginning of Phase II in which no registration (or schedule changes) can take place.

Pro-School: Forestry, Forest Engineering, and Forest/Civil Engineering majors have a pre/pro model. Students spend their first two years in the pre-forestry program, and then apply to move into the professional forestry program (or “pro-school”) for their junior year. Admission to the professional program is based upon satisfactory completion of the pre-forestry curriculum (with grades of C or higher in all courses) and a minimum pre-forestry GPA of 2.25. Students in pre/pro majors are encouraged to work closely with their academic advisor to ensure timely progress in the curriculum.

Satisfactory/Unsatisfactory (S/U) Grading: The ‘S’ grade corresponds to a letter grade of ‘A’ through ‘C-’. The ‘U’ grade corresponds to a letter grade of ‘D+’ or lower. Students have until the end of the seventh week to change a class to S/U grading, and must obtain approval from their advisor. Up to 36 credit hours can be graded S/U, except those courses required, by department, for major and/or minor options. S/U grades do not apply to GPA calculations (Academic Regulation 18).

Schedule of Classes: The schedule of classes is an online listing of every course being offered in the coming year. The schedule includes the course meeting times, location, instructor, prerequisites, etc. You can access the schedule of classes online: catalog.oregonstate.edu/.

Waiting List: See oregonstate.edu/registrar/register
Online Registration tutorial: [oregonstate.edu/registrar/node/93/#Registration Videos](http://oregonstate.edu/registrar/node/93/#RegistrationVideos)

Withdraw from a class: Students have the opportunity to withdraw from a course between the drop deadline and the end of the seventh full week of the term. *If you decide to withdraw from a class, you process the change the registration portion of your Online Services.* When you withdraw from a course you are no longer part of the class, and do not need to complete the rest of the assignments for the class. The course will still appear on your transcript, but a grade of W will be assigned, and you will not earn any credit for the course. A W grade is GPA neutral. When you withdraw from a course you will receive a pro-rated tuition refund. The University allows withdraw from a maximum of 12 individual courses.

Withdraw from the term: If you are enrolled in courses as of the first day of the term and elect to drop or withdraw from all of your courses for the term, you are withdrawing from the university for the term. The withdrawal is only effective for the term in which you drop or withdraw your courses. Your transcript will reflect your withdrawal from the university in the form of a comment that indicates that you withdrew for the term and the effective date of the withdrawal. All currently enrolled courses will be assigned a W grade indicating that you withdrew from the course. The W grade indicates the course was not completed, no credits were earned, and it is not used in the computation of the grade-point average. OSU allows students to withdraw from a maximum of four terms.