## Natural Resources

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>NATR 101</td>
<td>INTRO TO WILDLAND FIRE (FFT2)</td>
<td>3</td>
<td>Summer, Fall, Winter, Spring</td>
<td>Provides entry level firefighter skills, including the primary factors affecting the start and spread of wildfires, and recognition of potentially hazardous situations. Meets the fire behavior training needs of a firefighter type 2 (FFT2) on an incident as outlined in the PMS 310-1.</td>
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<tr>
<td>NATR 102</td>
<td>L-280 FOLLOWERSHIP TO LEADERSHIP</td>
<td>2</td>
<td>Spring</td>
<td>Offers a self-assessment opportunity for individuals preparing to step into a leadership role. Combines one day of classroom instruction followed by a second day in the field, working through a series of problem solving events. Prerequisites: NATR 101</td>
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<tr>
<td>NATR 103</td>
<td>APPLIED BOTANY</td>
<td>3</td>
<td>Spring</td>
<td>Introduces plant identification. Familiarizes students with basic field characteristics necessary for identifying forest and range plants. Includes terminology, morphology, nomenclature and classification with basic techniques for using plant keys. Introduces ecological concepts and plant relationships. Lab required.</td>
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<tr>
<td>NATR 104</td>
<td>S-290 INTERMEDIATE FIRE BEHAVIOR</td>
<td>3</td>
<td>Spring</td>
<td>Prepares the prospective supervisor to undertake safe and effective fire management operations. Develops fire behavior prediction knowledge and skills. Discusses fire environment differences. Prerequisites: NATR 101.</td>
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<tr>
<td>NATR 105</td>
<td>FIELD METHODS IN NATURAL RESOURCES</td>
<td>3</td>
<td>Fall, Winter, Spring</td>
<td>This course serves as an introduction to field work in Natural Resources. Classes will be held largely outside using a variety of field measurement tools and methods used commonly by natural resource professionals in subdisciplines of water resources, wildlife, forestry, cartography, range management, surveying, and other related fields. Lab required</td>
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<tr>
<td>NATR 106</td>
<td>INTRO TO FIRE EFFECTS</td>
<td>3</td>
<td>Fall</td>
<td>Introduces the physical and biological effects of fire on ecosystems. Includes effects on individual plants and animals, range sites, timbered areas, air quality, watersheds, soil, and other related resources. Lab required.</td>
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<tr>
<td>NATR 107</td>
<td>S-260 INTERAGENCY INCIDENT BUS MGT</td>
<td>2</td>
<td>Offered as needed</td>
<td>Provides general training needs for all positions requiring an understanding of interagency incident business management. Prerequisites: NATR 101.</td>
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<tr>
<td>NATR 108</td>
<td>S-270 BASIC AIR OPERATIONS</td>
<td>2</td>
<td>Winter</td>
<td>Discusses aircraft types and capabilities, aviation management and safety for flying and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Prerequisites: NATR 101.</td>
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<tr>
<td>NATR 109</td>
<td>S-200 INITIAL ATTACK IC</td>
<td>2</td>
<td>Spring</td>
<td>This course will provide the individual in charge of the initial attack of small non-complex fires, the training needed for size-up, deployment of forces, suppression, mopup, communications, and administrative duties. Prerequisites: NATR101, NATR 104.</td>
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<tr>
<td>NATR 111</td>
<td>INTRO TO NATURAL RESOURCES</td>
<td>5</td>
<td>Fall</td>
<td>The term &quot;Natural Resources&quot; covers a variety of topics and disciplines. This course serves as an introduction to the broad diverse field of natural resources. Each week students will research and study various disciplines within Natural Resources. Much time will be focused on current issues in various fields. Field labs to regional natural resource sites as well as guest lectures will be held weekly. Lab required</td>
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<tr>
<td>NATR 112</td>
<td>GLOBAL POSITIONING SYSTEMS (GPS)</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Acquaints the student with global positioning systems or GPS. Includes what GPS is, its uses, its short-comings, and field experience in the use of the equipment. Lab required. Some sections may have a no-cost text book option.</td>
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NATR 115
S-230 CREW BOSS-SINGLE RESOURCE
Quarters: Spring
Produces student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Includes operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post incident responsibilities. Prerequisites: NATR 101, NATR 102, NATR 104. Recommended prerequisite: NATR 121.

NATR 116
S-215 FIRE OPERATION WILDLAND/URBAN
Quarters: Spring
Assists structure and wildland firefighters in making tactical decisions when confronting wildland fire that threatens life, property, and improvements, in the wildland/urban interface. Includes size-up, initial strategy, structure triangle, tactics, action assessment, public relations, and followup and safety.

NATR 117
S-231 ENGINE BOSS-SINGLE RESOURCE
Quarters: Spring
Produces student proficiency in the performance of the duties associated with engine boss, single resource, including engine and crew capabilities and limitations, information sources, fire size-up consideration, tactics, and wildland/urban interface. Prerequisites: NATR 101, NATR 104, NATR 115.

NATR 121
S-131 SQUAD BOSS
Quarters: Summer, Spring
Meets the advanced training needs of the Firefighter Type I (FFT1) in an interactive format. Contains several tactical decision games designed to facilitate learning the objectives. Prerequisites: NATR 101 and one year experience in the field.

NATR 122
S-390 WILDLAND FIRE BEHAVIOR CALC
Quarters: Winter
Introduces fire behavior calculations by manual methods, using nomograms and the Fire Behavior Handbook Appendix B. Examines the determinants of fire behavior through studying inputs (weather, slope, fuels, and fuel moisture). Instructs how to interpret fire behavior outputs, documentation processes, and fire behavior briefing components. Prerequisites: NATR 101, NATR 104, NATR 115.

NATR 123
S-330 TASK FORCE/STRIKE TEAM
Quarters: Winter
Provides training for the positions of Task Force Leader and Strike Team Leader specific to wildland fire suppression, as outlined in the Wildland Fire Qualification System Guide and the Position Task Books. Prerequisites: NATR 101, NATR 104, NATR 122.

NATR 127
S-336 TACTICAL DECISION MAKING
Quarters: Offered as needed
Provides training requirements for the Operations Section of the Incident Command System. Prerequisites: NATR 101, NATR 104, NATR 115.

NATR 140
MAP USE AND ANALYSIS
Quarters: Winter
Introduces the development, understanding, and practical use of planimetric and topographic maps, along with aerial photographs. Includes map scale, finding distances, directions, and area on maps and photos, and identification of map and photos features. Also introduces application of GPS and GIS in Natural Resource Management. Lab required

NATR 201
ENVIRONMENT AND SOCIETY
Quarters: Offered as needed
Provides an overview of the complex political, social and economic issues met when managing Natural Resources of the Pacific Northwest. The course exposes students to local, regional and global environmental justice and global population growth. The course develops critical thinking skills useful in seeking out complex resource management solutions for a dynamic society. Prerequisites: READ 090

NATR 202
S-212 WILDLAND FIRE CHAIN SAWS
Quarters: Spring
Introduces the function, maintenance and use of internal combustion engine powered chain saws, and their tactical wildland fire application. Provides entry level training for firefighters with little or no previous experience in operating a chain saw. Does not constitute certified faller designation. Prerequisites: Qualified FFT2, and current first aid/cpr certification.

NATR 203
S-211 PORTABLE PUMPS AND WATER USE
Quarters: Offered as needed
Consists of three skill areas: supply, delivery and application of water. Requires set up, operation, and maintenance of pump equipment in a field exercise.
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<td>NATR 217</td>
<td>INTRO TO WATERSHED MANAGEMENT</td>
<td>3</td>
<td>Spring</td>
<td>Surveys the theory, principles and practices involved before water is utilized for commercial production projects. Studies the microclimate, hydrology, and soil as influenced by the vegetation in relation to the regional variables of climate, geology, topography, and vegetation type and structure. Follows the water from the atmosphere, to the ground, and down the watershed to the area where it can be used for natural resources, industry, recreation, and domestic needs. Lab required.</td>
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<tr>
<td>NATR 221</td>
<td>INTRO TO NATURAL RESOURCE ECOLOGY</td>
<td>3</td>
<td>Winter</td>
<td>Introduces ecology, including evolution, adaptation, plant and animal distributions, terminology, ecological relationships and interactions individual ecosystems, and global ecological principles. Stresses the ecology of the northwest.</td>
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<tr>
<td>NATR 241</td>
<td>INTRO TO RANGE MANAGEMENT</td>
<td>4</td>
<td>Spring</td>
<td>Introduces the science of range management, including identification, physiology, and ecology of range plants; stocking rate considerations; grazing system selection; range improvement methods; range inventory methods and analysis; and nutrition. Emphasizes range management objectives to provide society with meat, water, wildlife, and recreational opportunities on a sustained basis from lands不适于永久耕种。Lab required.</td>
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<tr>
<td>NATR 251</td>
<td>OUTDOOR RECREATION MANAGEMENT</td>
<td>3</td>
<td>Winter</td>
<td>Outdoor Recreation Management explores outdoor recreation as a vital aspect of natural resources and land management. Concepts discussed include multiple use management, recreational enterprises, state and federal outdoor recreation agencies, environmental education, and current topics in outdoor recreation. Lab required.</td>
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<tr>
<td>NATR 252</td>
<td>WILDLIFE MANAGEMENT</td>
<td>3</td>
<td>Winter</td>
<td>Introduces the principles of wildlife management and some of the practices and techniques used in controlling wild animal populations. Emphasizes the multiple use concept necessary for natural resource management.</td>
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<tr>
<td>NATR 280</td>
<td>NATURAL RESOURCE COOP WK EXP</td>
<td>1</td>
<td>Summer</td>
<td>Designed to give students an opportunity to acquire actual work experience in their chosen field. An on-site supervisor will supervise and evaluate the work experience student. Instructor approval of work setting and placement is required. For each credit earned, the student will need to document 36 hours at the work site.</td>
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<tr>
<td>NATR 290</td>
<td>NATURAL RESOURCE FIELD STUDIES CAMP</td>
<td>1</td>
<td>Summer</td>
<td>Introduces students to field work within the Natural Resource discipline. Emphasizes critical thinking in the field, remote working conditions, and teamwork approaches to problem solving. May require multiple days in the field with the potential for adverse weather conditions.</td>
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**Nursing**

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<tr>
<td>NURS 090</td>
<td>MEDICATION ASSISTANT</td>
<td>0</td>
<td>Offered as needed</td>
<td>This course leads to eligibility for certification as a Medication Assistant in the state of Oregon, and meets all Oregon State Board of Nursing requirements. Upon completion of the course students will be able to safely, legally, and accurately administer and document medications to clients in appropriate healthcare settings. This course follows the approved OSBN curriculum requirements for Certified Medication Aide in Oregon. Prerequisites: Current Oregon or Idaho Certified Nursing Assistant I certification, 6 months documented full time Certified Nurses Aide I work experience (or equivalent part time experience), criminal background check.</td>
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<tr>
<td>NRS 110</td>
<td>FOUNDATIONS OF NURSING-HEALTH PROMO</td>
<td>9</td>
<td>Fall</td>
<td>Introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as patient health practices. To support self and patient health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document. Prerequisites: Admission to the Nursing Program.</td>
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NRS 230  
CLINICAL PHARMACOLOGY I  
Quarters: Winter  
Course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, nonopioid analgesics, and antibiotics, as well as additional classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, development physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework. Prerequisites: Anatomy and Physiology Sequence, and Microbiology

NRS 231  
CLINICAL PHARMACOLOGY II  
Quarters: Spring  
Sequel to Clinical Pharmacology I continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology I. Prerequisites: NRS 230
NRS 232  (P/T)  3 Credits
PATHOPHYSIOLOGICAL PROCESSES I
Quarters: Winter
Course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make selective clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. Prerequisites: Anatomy and Physiology Sequence, and Microbiology

NRS 233  (P/T)  3 Credits
PATHOPHYSIOLOGICAL PROCESSES II
Quarters: Spring
Sequel to Pathophysiological Processes I continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes I. Prerequisites: NRS 111, NRS 230