

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Central Oregon
Community College**

Natural Resources Major with Forest Ecosystems Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations. Students will understand the nature of forest ecosystems and the process 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.

Your Bachelor's Degree (BS) in Natural Resources



- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- [More info at forestry.oregonstate.edu/undergraduate-programs/natural-resources/forest-ecosystems](http://forestry.oregonstate.edu/undergraduate-programs/natural-resources/forest-ecosystems)

Courses Required for Natural Resources Major

NR Core Requirements	COCC Course	OSU Course	Notes
<i>Complete one course per category</i>			
Consensus and Natural Resources		FES 485	Available online at OSU
Managing Nat Res for the Future		NR 201	Available online at OSU
Natural Resource Problems & Solutions		NR 202	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
Advanced Communication: Communication in Global Agriculture Intro to Communication Theory Small Group Problem Solving Communication in Organizations Intercultural Communication Non-Verbal Communication Communication and Culture in Cyberspace Theories of Conflict and Conflict Management Bargaining and Negotiating Processes Forest as Classroom Effective Comm of Environmental Change Sci Critical thinking for NR Challenges Environmental Interpretation Science Writing Environmental Writing		AG 351 COMM 321 COMM 322 COMM 324 COMM 326 COMM 328 COMM 385 COMM 440 COMM 442 FES 430 GEOG 453 NR 312 TRAL 493 WR 362 WR 462	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Biology I Introduction to Biology I Principles of Biology: Cells	BI 221	BI 204 BI 221	Available online at OSU

NR Core Requirements (continued) <i>Complete one course per category</i>	COCC Course	OSU Course	Notes
Biology II Introduction to Biology II Principles of Biology: Organisms	BI 222	BI 205 BI 222	Available online at OSU
Biology III Introduction to Biology III Principles of Biology: Populations	BI 233	BI 206 BI 223	Available online at OSU
Chemistry Intro to Chemistry I General Chemistry I with Lab General Chemistry (Majors) I with Lab	CH 104 CH 221 (required for 200 Biology at OSU)	CH LDT CH 121 CH 231 & 261	Available online at OSU Available online at OSU
Climate Science COCC Course: GEOG 279 Weather & Climate Climate Science Global Change Biology Climatology Intro to Climate Change	GEOG 279	GEOG LDT ATS 201 FW 345 GEOG 323 SUS 103	Available online at OSU Available online at OSU Available online at OSU
Soil Science Soil Science Soil Science with Lab Soil Science with Forest Soils Lab	FOR 208 FOR 208	CSS 205 SOIL 205 & 206 SOIL 205 & FOR 206	Available online at OSU
Ecology Marine Ecology General Ecology Plant Ecology		BI 351 BI 370 BOT 341	Available online at OSU Available online at OSU Available online at OSU
Mathematics Elementary Functions Calculus for Mgmt, Life, and Social Science Math for Mgmt, Life, and Social Science Differential Calculus	MTH 112Z MTH 241 MTH 245 MTH 251	MTH 112Z MTH 241 MTH 245 MTH 251	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Statistics Principles of Statistics Intro to Statistical Methods	MTH 243	ST 201 ST 351	Available online at OSU Available online at OSU
Animal ID Terrestrial Vertebrate ID & Natural History Systematics of Birds Systematics of Fishes Systematics of Mammals Biology of Insects Herpetology Aquatic Entomology	FW 212 FW 218	FOR 210 FW 312 FW 316 FW 318 Z 365 Z 473 Z 477	Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Environ. Assessment & Planning Ecological Restoration Ecosystems Services Land Use Planning for Sust. Communities Land Use in the American West Planning Principles for Resilient Communities Sustainable Site Planning Wildland restoration and Ecology Habitat Analysis I Rangeland Management and Planning Sustainability Assessment Sustainable Communities Planning for Sustainable Recreation Planning for Sustainable Tourism Scientific Methods for Analyzing NR Problems		FES/FW 445 FW 462 GEOG 250 GEOG 450 GEOG 451 GEOG 452 RNG 421 RNG 457 RNG 490 SUS 304 SUS 350 TRAL 456 TRAL 457 NR 325	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU

NR Core Requirements (continued) <i>Complete one course per category</i>	COCC Course	OSU Course	Notes
Fish & Marine Sciences Intro to Marine Biology Biology of Marine Mammals Oceans in Peril Marine Ecology Intro to Population Dynamics Mgmt Principles of Pacific Salmon in the NW Coastal Ecology and Resource Management Fishery Biology Fish Ecology Wildlife Ecology Oceanography Coastal Oceanography	GS 108	BI 150 FW 302 BI 347 BI 351 FW 320 FW 323 FW 426 FW 454 FW 473 FW 481 OC 201 OC 332	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Forestry International Forestry Forest Biology Forest Types of the Northwest Urban Forestry Ecological Restoration Agroforestry Topics in Wildland Fire	FOR 240A FOR 110 + FOR 210	FE/FOR 456 FES 240 FES 342 FES/HORT 350 FES/FW 445 FES/NR 477 FOR 346	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Land & Water Watershed Processes Forest Watershed Management Integrated Watershed Management Freshwater Ecology and Conservation Wetlands and Riparian Ecology Minerals, Energy, Water and the Environment National Park Geology and Preservation Global Change and Earth Sciences Introduction to Water Science & Policy Water Resources Management in the U.S. International Water Resource Management Riparian Ecohydrology and Management Ecosystems of Wildland Soils Soil Systems and Plant Growth World Soil Resources Soil Morphology and Classification		FE 430 FE 434 FW 326 FW 456 FW 479 GEO 306 GEO 307 GEO 308 GEOG 340 GEOG 440 GEOG 441 RNG 455 SOIL 366 SOIL 388 SOIL 395 SOIL 466	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Range Ecological Restoration Topics in Wildland Fire Rangeland Ecology and Management Range Ecology I – Grasslands Range Ecology II – Shrub Lands Wildland Restoration and Ecology Rangeland Analysis Rangeland-Animal Relations Rangeland Management and Planning	FOR 110 + FOR 210	FES/FW 445 FOR 346 RNG 341 RNG 351 RNG 352 RNG 421 RNG 441 RNG 442 RNG 490	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Vegetation ID COCC Course: General Botany Plant Systematics Agrostology Flora of the Pacific Northwest Mycology Dendrology Landscape Plant Materials I: Decid & Conifers Landscape Plant Materials II: Shrubs Wildland Plant Identification	BI 202 FOR 241A or 241B	BOT LDT BOT 321 BOT 414 BOT 425 BOT 461 FES 241 HORT 226 HORT 228 RNG 353	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU

NR Core Requirements (continued) <i>Complete one course per category</i>	COCC Course	OSU Course	Notes
Wildlife Management COCC Course: Animal Behavior Principles of Fish & Wildlife Conservation Introductory Population Dynamics Applied Community and Ecosystem Ecology Wildlife in Agricultural Ecosystems Avian Conservation and Management Mammal Conservation and Management Wildlife Ecology Animal Behavior	PSY 227	PSY LDT FW 251 FW 320 FW 321 FW 435 FW 451 FW 458 FW 481 Z 350	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Ethics & Philosophy Ecosystems Science of the PNW Indians Anthropology, Health, and the Environment Ecological Anthropology Natural Resources and Community Values Anthropology of International Development Multicultural Perspectives in NR Transforming Environmental Conflicts Environmental Justice Environmental History of the United States Critical Thinking for NR Challenges Nature in Storytelling over the Centuries Environmental Ethics World View and Environmental Values Sustainability, Justice, and Engagement		AG 301 ANTH 352 ANTH 477 ANTH 481 ANTH 482 FW 340 GEOG 241 GEOG 330 HST 481 NR 312 NR 380 PHL 440 PHL/REL 443 SUS 331	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Natural Resource Policy Environmental Law Public Lands Policy & Management Forest Policy Forest Policy Analysis Fish & Wildlife Law and Policy Introduction to Ocean Law U.S. Energy Policy Environmental Politics and Policy International Environmental Politics & Policy		AEC 432 FES 486 FOR 460 FOR 461 FW 415 FW 422 PS 473 PS 475 PS 477	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Political Issues Plagues, Pests, and Politics Endangered Spec, Society and Sustainability When Science Escapes the Lab The Politics of Climate Change Environmental Politics and Policy Science and Politics International Environmental Politics & Policy Wilderness Management		ENT/HORT 300 FW 350 NR 351 PS 455 PS 475 PS 476 PS 477 TRAL 352	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Economics Intro to Environmental Economics & Policy Intro to Microeconomics	EC 201	AEC 250 ECON 201	Available online at OSU Available online at OSU

Courses Required for Forest Ecosystems Option

Requirement <i>Complete one course per category unless otherwise noted</i>	COCC Course	OSU Course	Notes
Measurements COCC Course: Resource Measurements Field Methods in Ecological Restoration Field Methods in Plant Ecology Forest Mensuration Forest Ecology Forest Entomology Wildland Fire Ecology Biodiversity Conservation in Managed Forests Forest Pathology Wildland Fire Science & Management Silviculture Principles	FOR 235	FOR LDT BI 375 BOT 440 FOR 321 FES 341 FES 412 FES 440 FES/FW 452 FOR 413 FOR 436 FOR 441	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU
Ecology Breath – choose two classes Plant Systematics Plant Ecology Flora of the Pacific Northwest Forest Watershed Management Ecological Restoration Agroforestry Principles of Fish & Wildlife Conservation Ornithology Ichthyology Mammalogy Introductory Population Dynamics Applied Community and Ecosystem Ecology Avian Conservation and Management Freshwater Ecology and Conservation Mammal Conservation and Management Fish Ecology Wildlife Ecology Scientific Methods for Analyzing NR Problems Range Ecology I – Grasslands Range Ecology II – Shrublands Riparian Ecohydrology and Management Ecosystems of Wildland Soils Soil Systems and Plant Growth Soil morphology and Classification Biodiversity: Causes, Consequences, Conserv. Herpetology	FW 251	BOT 321 BOT 341 BOT 425 FE 434 FES/FW 445 FES/NR 477 FW 251 FW 311 FW 315 FW 317 FW 320 FW 321 FW 451 FW 456 FW 458 FW 473 FW 481 NR 325 RNG 351 RNG 352 RNG 455 SOIL 366 SOIL 388 SOIL 466 Z 349 Z 473	Available online at OSU Available online at OSU Available online at OSU
Technical Electives – choose two classes Forest Surveying Forest Photogrammetry & Remote Sensing GIS & Forest Engineering Applications Harvesting Operations Forestry Remote Sensing & Photogrammetry Arboriculture Foundations of Geospatial Science & GIS Geoscience I: GIS and Theory Intro to Statistical Methods I Intro to Statistical Methods II	FOR 230B FOR 236 or GEOG 286 GEOG 265 GEOG 266	FE 208 FE 209 FE 257 FE 370 FE 444 FES 447 GEOG 201 GEOG 360 ST 351 ST 352	Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU Available online at OSU

General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of COCC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 112Z or higher WR 121Z. Required to transfer. Can be completed as part of major: see advisor Choose one course from Bacc Core link above HPE 295 @ COCC
PERSPECTIVE COURSES	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Completed as part of major: Biology I Completed as part of major: Chemistry Completed as part of major: Biology II Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: EC 201 Choose one course from Bacc Core link above
DPD COURSE	Difference, Power, & Discrimination	Can be completed as part of major: see advisor
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Upper division course, take through OSU

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

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