

## Natural Resources Breadth Requirements Course List

Prerequisites are given in brackets [ ] where specific courses or class standing are required. Students should refer to the OSU Catalog for details.

### (3)\_\_\_\_\_ Amenity Uses of Natural Resources

FOR 351	Recreation Behavior and Management [Junior standing]
FOR 352	Wilderness Management (also offered as a Distance Course)
FOR 354	Amenity Resource Management [FOR 111]
FOR 444	Ecological Aspects of Park Management [FOR 251 plus an ecology course]
FOR 451	History and Cultural Aspects of Recreation
FOR 453	Nature-Based Tourism
FOR 459	Forest Resource Planning & Decision Making [FOR 457, FOR 460, and senior standing or dept. approval]
FOR 493	Environmental Interpretation [FOR 391]
SOC 454*	Leisure and Culture [SOC 204] (offered as a Distance Course only)

### (3)\_\_\_\_\_ Fisheries and Wildlife Group

FOR/FW/RNG 446	Wildland Fire Ecology [coursework in ecology & nat. res. mgmt.] (offered as a Distance Course only)
FW 311	Biology of Birds [one year introductory biology] (also offered as a Distance Course)
FW 315	Biology of Fishes [one year introductory biology] (also offered as a Distance Course)
FW 317	Biology of Mammals [one year introductory biology] (also offered as a Distance Course)
FW 320	Introductory Population Dynamics [BI 370 or 371 and MTH 111] (also offered as a Distance Course)
FW 321	Fisheries and Wildlife Resource Ecology [FW 320] (also offered as a Distance Course)
FW 323	Management Principles of Pacific Salmon in the NW (offered as a Distance Course only)
FW 435^	Wildlife in Agricultural Ecosystems [BI 370, FW 251, junior standing] (also offered as a Distance Course)
FW 451	Avian Conservation and Management [FW 311, junior standing]
FW 454	Fishery Biology [FW 315, FW 320] (taught at Marine Science Center)
FW 458	Management of Big Game Animals [9 credits upper division biology, senior standing]
FW 465	Marine Fisheries [FW 315] (taught at Marine Science Center) (alternate years)
FW 473	Fish Ecology [BI 370, FW 315]
FW 481	Wildlife Ecology [BI 370 or 371, ST 351, FW 311, FW 320] (also offered as a Distance Course)
FW/FS 453	Forest Mngmnt & Wildlife Conservation [FOR240 or FOR341 or BI370 or equiv course in ecology, jr. standing]
GEO 421	Humans and Their Wildlife Environment [9 credits upper division geography](alternate years)

### (3)\_\_\_\_\_ Forestry Group

BOT/FS 415	Forest Insect and Disease Management [BI 213]
FOR 341	Forest Ecology [BI 211, 212, 213, CSS 305, FOR 241, junior standing]
FOR 365*	Issues in Natural Resources Conservation [Junior standing] (also offered as a Distance Course)
FOR 441	Silviculture Principles [FOR 141, 240]
FOR/FW/RNG 446	Wildland Fire Ecology [coursework in ecology & nat. res. mgmt.] (offered as a Distance Course only)
FOR/FE 456*	International Forestry [Intro course in biology, sophomore standing]
FOR 457	Techniques for Forest Resource Analysis [FOR 330 or AREC 351]
FOR 459	Forest Resource Planning and Decision Making [FOR 457, FOR 460, and senior standing or dept. approval]
FOR 460^	Forest Policy [Senior standing]
FE 370	Harvesting Operations [Junior standing in forestry]
FS 450	Integrated Forest Protection [FOR 341, BOT/ENT 415]
FS/FW 453	Forest Management and Wildlife Conservation [FOR 240, FOR 341, BI 370, or equivalent course in ecology]
FW/FOR/RNG 436	Wildland Fire Science (alternate years)
WSE 470*	Forests, Wood, and Civilization

### (3)\_\_\_\_\_ Land and Water Group

CSS 305	Principles of Soil Science [CH 122]
CSS 395*	World Soil Resources [CH 121] (offered as a Distance Course only)
FE 430	Watershed Processes [Junior standing]
FW 456	Limnology [Sr. standing]
FW 479	Wetlands and Riparian Ecology [BI 370 or 371, junior standing] (also offered as a Distance Course)
GEO 300*	Environmental Conservation and Sustainability [Junior standing] (also offered as a Distance Course)
GEO 306*	Minerals, Energy, Water and the Environment (Sophomore standing)
GEO 424	Water Resources Geography [9 credits upper division geography] (alternate years)
GEO 425	Water Resources Management in U.S. [9 credits upper division geography, junior standing] (alternate years)
GEO 429	Topics in Resource Geography [9 credits upper division geography] (not offered every year)
MRM 415	Coastal Resources Management (alternate years)
RNG 355	Desert Watershed Management (also offered as a Distance Course)
RNG 455	Riparian Ecology and Management [RNG 355] (also offered as a Distance Course)

- (3) \_\_\_\_\_ **Range Group**  
 FOR/FW/RNG 446 Wildland Fire Ecology [coursework in ecology and nat. res. mgmt.] (offered as a Distance Course only)  
 RNG 341 Rangeland Ecology and Management (also offered as a Distance Course)  
 RNG 352 Grassland and Shrubland Ecosystems  
 RNG 421 Wildland Restoration and Ecology [course work in soils and ecology]  
 RNG 441 Rangeland Analysis [ST 351]  
 RNG 442 Rangeland-Animal Relations [RNG 341]  
 RNG 450 Landscape Ecology and Analysis [RNG 341]  
 RNG 490 Rangeland Management Planning (also offered as a Distance Course)
- (3) \_\_\_\_\_ **Resource Values/Philosophy Group**  
 AG 301\* Ecosystem Science of Pacific NW Indians  
 ANTH 481\* Natural Resources and Community Values [3 credits social science] (also offered as a Distance Course)  
 ANTH 482\* World Food and the Cultural Implications of International Agricultural Development [Senior standing]  
 FW 340\* Multicultural Perspectives in Natural Resources (offered as a Distance Course only)  
 GEO 309\* Environmental Justice [WR 121, sophomore standing]  
 GEO 420 Geography of Resource Use [9 credits upper division geography, Junior standing]  
 HST 481\* Environmental History of the United States [upper division standing] (also offered as a Distance Course)  
 PHL 440 Environmental Ethics [PHL 205, PHL 342, PHL 365 or 6 cr. PHL, sophomore standing]  
 PHL 443\* World Views & Environmental Values [1 intro-level science course, soph. standing](also offered as Distance Course)  
 PHL/FS 491 Sustainable Forestry: Multiple Perspectives [total of 6 credits in forestry, sociology, or philosophy; upper div. standing]
- (3) \_\_\_\_\_ **Social and Political Group**  
 AREC 353 Public Land Statutes and Policy [ECON 201] (also offered as a Distance Course)  
 AREC 432 Environmental Law [Junior standing]  
 BI 301\* Human Impacts on Ecosystems [One yr college biology or chem, junior standing]  
 CSS/GEO 335\* Introduction to Water Science and Policy  
 FOR 462 Natural Resource Policy and Law  
 FOR 463 Environmental Policy and Law Interactions  
 GEO 423 Land Use [Junior standing]  
 HST 481\* Environmental History of the United States [upper division standing] (also offered as a Distance Course)  
 PS 474 Natural Resource Policy & Bureaucratic Politics [PS 201 or 6 cr upper-div NR course work or instructor consent]  
 PS 475 Environmental Politics and Policy [PS 201 or instructor consent] (also offered as a Distance Course)  
 PS 476\* Science & Politics [PS201 or 6 credits lower-div. political sci. or instructor consent](also offered as a Distance Course)  
 SOC 360\* Population Trends and Policy [SOC 204] (also offered as a Distance Course)  
 SOC 456\* Science and Technology in Social Context [SOC 204] (offered as a Distance Course only)  
 SOC 475 Rural-Urban Sociology [SOC 204]  
 SOC 480\* Environmental Sociology [SOC 204] (also offered as a Distance Course)  
 SOC 481\* Society and Natural Resources [SOC 204] (offered as a Distance Course only)  
 SOC/ANS/FOR/FW/ HORT/PS 485\* Consensus and Natural Resources (offered as a Distance Course only)

\* Indicates a Baccalaureate Core Course

^ Indicates a Writing Intensive Course

[ ] Indicates Prerequisites

Courses may count in only ONE breadth area.