   
Students majoring in other programs at OSU can choose to complete the Natural Resources minor. The minor is intended to provide a broad exposure to the natural resources field. It offers course work that integrates a number of natural resource disciplines. A minimum of 12 credits must be upper division.

NATURAL RESOURCES MINOR CHECKLIST

Date Prepared: By:

Available on Corvallis campus, OSU-Cascades campus and via Ecampus \* = Bacc Core ^ = Writing Intensive Course (WIC) += Core Ed (27 – 29 credits)

CORV = Corvallis CASC = Casades Campus HMSC = Hatfield Marine Science Center (Newport) ECMP = Ecampus

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| COURSE | CREDIT | CAMPUS | PREREQUISITES | DONE |
| Required (6 credits) | | | |  |
| NR 201+ Managing NR for the Future | 3 | CORV, CASC, ECMP | None |  |
| FES 485 Consensus and Natural Resources | 3 | CORV, CASC, ECMP | None. Should have some disciplinary depth in your field before taking this class. Significant group work |  |
| Choose THREE of the following Courses (9 credits) | | | |  |
| FOR 111 Introduction to Forestry  OR FES 342 Forest Types of the Northwest | 3 | CORV, ECMP | None |  |
| 3 | CASC, ECMP | None |
| FW 251 Principles of Fish and Wildlife Conservation (3) | 3 | CORV, CASC, ECMP | Recommend introductory biology. |  |
| NR 202 Natural Resource Problems and Solutions | 3 | CORV, ECMP | None |  |
| RNG 121+\* Introduction to Wildland Ecology  OR RNG 341 Rangeland Ecology and Management | 3 | CORV, ECMP | None |  |
| 3 | CORV, CASC, ECMP | BI 221/222/223 or BI 204/205/206. |
| SUS 102 \*Introduction to Environmental Science | 3 | CORV, CASC, ECMP | None |  |
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| Select TWO courses from any of the focus areas of the Resource Management Group (6-8 credits) | | | |  |
| *Environmental Assessment and Planning* |  |  |  |  |
| FES/FW 445 Ecological Restoration | 4 | CORV, CASC, ECMP | None |  |
| FW 462 Ecosystem Services | 3 | ECMP | None |  |
| GEOG 250+\* Land Use Planning for Sustainable Communities | 3 | CORV, ECMP | None |  |
| ~~GEOG 450 Land Use in the American West~~ | ~~3~~ | ~~CORV~~ | No longer offered. |  |
| GEOG 451 Planning Principles and Practices for Resilient Communities | 4 | CORV, ECMP | CE202, FE 257 or GEOG 360. Minimum C- in all. |  |
| GEOG 452 Sustainable Site Planning | 3 | CORV, ECMP | Nor currently offered. |  |
| NR 325 Scientific Methods for Analyzing NR Problems | 3 | ECMP | MTH 111 with C- or better. |  |
| RNG 421 Rangeland Restoration and Management | 4 | CORV, ECMP | BI 221,222,223 or BI 204,205,206 |  |
| RNG 491^ Rangeland Management Planning | 4 | CORV, ECMP | RNG 341. (Was formerly called RNG 490) |  |
| SUS 304 \*Sustainability Assessment | 4 | CORV, CASC, ECMP | None |  |
| SUS 350+\* Sustainable Communities | 4 | CORV, CASC, ECMP | None |  |
| TRAL 456 Planning for Sustainable Recreation | 4 | CORV | TRAL 251 or FES 251. C- Minimum |  |
| TRAL 457 Planning for Sustainable Tourism | 4 | CORV | TRAL 251 or FES 251. C- Minimum |  |
| WSE 385 \*Evaluating Sustainability through Life Cycle Analysis | 3 | ECMP |  |  |
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| *Fisheries and Marine Sciences* |  |  |  |  |
| BI 150 Introduction to Marine Biology | 3 | CORV | None |  |
| BI 347 \*Oceans in Peril | 3 | CORV, ECMP | BI 101 or 102 or BI 211 or 213 or BI 204 or 150, 221. Minimum of C-. NO freshmen |  |
| BI 351 Marine Ecology | 3 | CORV, ECMP | BI 211/212/213 and BI 213 or BI 221/222/223 or BI 204/205/BI 206 |  |
| FW 302 Biology and Conservation of Marine Mammals | 4 | HMSC | Recommend one year of introductory biology. |  |
| FW 320 Introductory Population Dynamics | 4 | CORV, ECMP | BI 370 or BI 371. May be taken concurrently. |  |
| FW 426 Coastal Ecology and Resource Management | 5 | HMSC, ECMP | No Freshman or Sophomore. |  |
| FW 454 ^Fishery Biology | 4 | CORV, ECMP | FW 315 and FW 320. |  |
| ~~FW 465 Marine Fisheries~~ | ~~4~~ | ~~HMSC, CORV~~ | No longer offered. |  |
| FW 473 Fish Ecology | 3 | CORV, ECMP | BI 370 and FW 315. |  |
| FW 481 Wildlife Ecology | 3 | CORV, CASC, ECMP | BI 370 or BI 371. No Freshman or Sophomore. |  |
| OC 201+\* Oceanography | 4 | CORV, ECMP | None |  |
| OC 202+\* Intro to Biological Oceanography | 3 | CORV | None |  |
| OC 332 Coastal Oceanography | 3 | CORV, HMSC | No Freshman or Sophomore |  |
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| F*orestry* |  |  |  |  |
| ~~FE/FOR 456 \*International Forestry~~ | ~~3~~ | ~~CORV~~ | No longer offered. |  |
| FES 240+\* Forest Biology | 4 | CORV, ECMP | None |  |
| FES 341 Forest Ecology | 3 | CORV, CASC, ECMP | One year biology required. |  |
| FES 342 Forest Types of the Northwest | 3 | CASC, ECMP | None |  |
| FES/HORT 350 Urban Forestry | 3 | ECMP | None |  |
| FES 440 Wildland Fire Ecology | 3 | CORV, CASC, ECMP | None |  |
| FES/FW 445 Ecological Restoration | 4 | CORV, CASC, ECMP | None |  |
| FES/FW 452 Biodiversity Conservation in Managed Forests | 3 | CORV, ECMP | No Freshman or Sophomore. |  |
| ~~FES/NR 477 \*Agroforestry~~ | ~~3~~ | ~~CORV~~ | No longer offered. |  |
| FOR 346+ Topics in Wildland Fire | 3 | CORV, ECMP | None |  |
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| *Land and Water* |  |  |  |  |
| FE 430 Watershed Processes | 4 | CORV, ECMP | None |  |
| FE 434 Forest Watershed Management | 4 | CORV | CH 121, 201 or 231) and (SOIL 205, CSS 305 or 205) and (MTH 241, 251 or 251H). A minimum grade of C is required in CH 121, CH 201, CH 231, SOIL 205, CSS 305, CSS 205, MTH 241, MTH 251 and MTH 251H. |  |
| FW 326 Integrated Watershed Management | 3 | ECMP | None |  |
| FW 456 Freshwater Ecology | 5 | CORV, ECMP | BI 370 or BI 371. No Freshman and Sophomore. |  |
| FW 479 Wetlands and Riparian Ecology | 3 | ECMP | None |  |
| GEO 306+\* Minerals, Energy, Water and the Environment | 3 | CORV, ECMP | None |  |
| GEO 308 \*Global Change and Earth Sciences | 3 | CORV, ECMP | None |  |
| GEOG 440 Water Resources Management in the U.S. | 3 | CORV | None |  |
| GEOG 441 International Water Resources Management | 3 | ECMP | None |  |
| RNG 455 Riparian Ecohydrology and Management | 4 | CORV, ECMP |  |  |
| SOIL 366 Ecosystems of Wildland Soils | 3 | CASC, ECMP |  |  |
| SOIL 388 Soil Systems and Plant Growth | 4 | ECMP | Prerequisites: ((SOIL 205 and (SOIL 206 or FOR 206)) or CSS 205) and (CH 121 or 231) and (BOT 220 or (BI 204, 205 or 206) or (BI 211, 212 or 213)). |  |
| SOIL 395 \*World Soil Resources | 3 | ECMP | Prerequisites: CH 121, 122, 123, 201, 202, 231, 231H, 232, 232H, 233 or 233H. |  |
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| *Range* |  |  |  |  |
| FES 440 Wildland Fire Ecology | 3 | CORV, CASC, ECMP | None |  |
| FES/FW 445 Ecological Restoration | 4 | CORV, CASC, ECMP | None |  |
| FOR 346 Topics in Wildland Fire | 3 | CORV, CASC | None |  |
| RNG 341 Rangeland Ecology and Management | 3 | CORV, CASC, ECMP | None |  |
| RNG 351 Range Ecology I – Grasslands | 3 | CORV, ECMP | None |  |
| RNG 352 Range Ecology II – Shrublands | 3 | CORV, ECMP | None |  |
| RNG 421 Wildland Restoration and Ecology | 4 | CORV, ECMP | CORV section is restricted to College of Ag Science major. |  |
| RNG 442 Rangeland-Animal Relations | 4 | CORV, ECMP | None |  |
| RNG 490 Rangeland Management Planning | 4 | CORV, ECMP | None |  |

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| Choose TWO courses from any of the focus areas of the Social and Political Dimensions group (6-8 credits) | | | |  |
| *Ethics and Philosophy* |  |  |  |  |
| AG 301 \*Ecosystem Science of the Pacific NW Indians | 3 | CORV, ECMP | None |  |
| ANTH 352 \*Anthropology, Health and the Environment | 3 | CORV, CASC, ECMP | None |  |
| FW 340 \*Multicultural Perspectives in Natural Resources | 3 | CORV, ECMP | None |  |
| GEOG/ENSC 333+ Environmental Justice | 3 | CORV, CASC, ECMP | None |  |
| HST 481 \*Environmental History of the United States | 4 | CORV, ECMP | None |  |
| NR 312 Critical Thinking for Natural Resources Challenges | 3 | CORV, CASC | None |  |
| NR 380 Nature in Storytelling over the Centuries | 3 | ECMP | None |  |
| PHL 440 \*Environmental Ethics | 3 | ECMP | None |  |
| PHL/REL 443 \*World Views and Environmental Values | 3 | CORV, ECMP | None |  |
| SUS 331+\* Sustainability, Justice and Engagement | 3 | CORV, ECMP | None |  |
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| *Natural Resource Policy* |  |  |  |  |
| AEC 432 Environmental Law | 4 | CORV, , ECMP | None |  |
| FES 486 ^Public Lands Policy and Management | 3 | CORV, ECMP | None |  |
| FOR 460 ^Forest Policy | 4 | CORV | Seniors only. |  |
| FW 415 Fisheries and Wildlife Law and Policy | 3 | ECMP | None. |  |
| FW 422 Intro to Ocean Law | 3 | ECMP | None |  |
| PS 473 US Energy Policy | 4 | CORV, ECMP | none |  |
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| *Political Issues* |  |  |  |  |
| ENT 300/HORT 330 \*Plagues, Pests and Politics | 3 | CORV, ECMP | None |  |
| FW 350 \*Endangered Species, Society and Sustainability | 3 | CORV, CASC, ECMP | None |  |
| ~~NR 351 \*When Science Escapes the Lab: Science and Resource Management~~ | ~~3~~ | ~~CORV~~ | No longer offered. |  |
| PS 455 \*The Politics of Climate Change | 4 | ECMP | None |  |
| PS 475 Environmental Politics and Policy | 4 | CORV, CASC, ECMP | None |  |
| PS 477 International Environmental Politics and Policy |  | CORV, ECMP | None |  |
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| *Resource Economics* |  |  |  |  |
| AEC 351 \*Natural Resources Economics and Policy | 3 | CORV, ECMP | ECON 201 or AEC 250 |  |
| AEC/ECON 352 \*Environmental Economics and Policy | 3 | CORV, CASC, ECMP | ECON 201 or AEC 250 |  |
| AEC 353 Introduction to Coastal and Marine Resource Economics | 3 | ECMP | MATH 111 or MTH11z and AEC 250 or ECON 201. Minimum C- in all. |  |
| FOR 329 Forest Resource Economics I | 4 | CORV | AEC 250 or ECON 201 and (MTH 241, 245, 251 or 252), Minimum grade of C in all. |  |
| TRAL 432 Economics or Recreation and Tourism | 3 | CORV, ECMP | Recommend (AEC 250 or Econ 20)1 and ST 202 |  |
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| *Social Issues* |  |  |  |  |
| BOT 301\* Human Impacts on Ecosystems | 3 | CORV | Recommend one year of biology or chemistry |  |
| ~~BI 348\* Human Ecology~~ | ~~3~~ | ~~CORV~~ | No longer offered. |  |
| FES 365 Issues in NR Conservation | 3 | CORV, CASC, ECMP | None |  |
| FW 325 \*Global Crises in Resource Ecology | 3 | ECMP,HMCS | None |  |
| GEOG 240 Human Dimensions of Climate Change | 3 | CORV, ECMP | None |  |
| GEOG 300+\* Sustainability for the Common Good | 3 | CORV, ECMP | None |  |
| GEOG 240+\* Climate Change, Water and Society | 3 | CORV, ECMP | None |  |
| GEOG 241+ Transforming Environmental Conflicts | 3 | CORV, ECMP | None |  |
| GEOG 430 Resilience-based Natural Resource Management | 3 | CORV | None |  |
| OC 333 Oceans, Coasts and People | 3 | CORV, ECMP | None |  |
| SOC 381 Social Dimensions of Sustainability | 4 | CORV, ECMP | SOC 204 |  |
| SOC 480 \*Environmental Sociology | 4 | CORV, CASC, ECMP | SOC 204, upper class standing |  |
| SOC 481 \*Society and Natural Resources | 4 | CORV, ECMP | SOC 204 |  |
| SUS 420 Social Dimensions of Sustainability | 3 | CASC, ECMP | None |  |
| TRAL 351 Outdoor Recreation Management of Public Lands | 3 | CORV | TRAL 251 with minimum grade of C- |  |
| TRAL 354 Communities, Natural Areas and Sustainable Tourism | 3 | CORV | None |  |
| TRAL 357\* Parks and Protected Areas Management | 3 | CORV, CASC, ECMP | None |  |

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