

OSU AGRICULTURE AND NATURAL RESOURCE PROGRAM AT EOU
NATURAL RESOURCES
2015-16 CHECK SHEET

Name: _____ EOU ID: _____ EOU Admit Term: _____
 Minor(s): _____ OSU ID: _____ OSU Admit Term: _____

Future or Career Interests: _____

| Minimum Credit Hours and Grade Point Average Requirements | |
|--|------------|
| Total Hours | 180 |
| Major Hours | 36 |
| Upper-Division Within Total | |
| 60 | |
| Residency Requirement: minimum of 45 of last 75 credits must be OSU credits | |
| Grade Point Averages: 2.75 (EOU) / 3.0 (OSU) for Incoming Freshmen | |
| 2.25 for Transfer Students with minimum of 36 quarter / 24 semester transferrable credits | |

| | OSU | Articulation | Credits | Term | Grade | Prerequisites / Remarks |
|---------------------------|-----|--------------|---------|------|-------|-------------------------|
| BACCALAUREATE CORE | | | | | | |

FOREIGN LANGUAGE

Students must have either 2 years of High School foreign language, 2 terms of a college-level language, or satisfactory performance on an approved assessment of second language knowledge and/or proficiency.

Completed in H.S.

Yes / No

F.L. 1 _____
 F.L. 2 _____

SKILLS COURSES (15 Cr)

Mathematics (3) Taken within first 45 cr

Math 105, 111, 112, 211, 241, 251 _____ *C- or above*

Writing I (3) Taken within first 45 cr

WR121 _____ *C- or above*

Writing II (3) Taken within first 90 cr

See Bacc Core List _____

Speech (3) Taken within first 45 cr

COMM 111 (*Inter.Prsnl*)
 OR 112 (*Public Speak.*) _____

Fitness (3) HWS 298 HHS 231/241 3 _____

PERSPECTIVE COURSES (24 Cr) Only 2 courses allowed in same department

Biological Science (4 or 8) *See Natural Resource Core*

Physical Science (4 or 8) *See Natural Resource Core*

Western Culture (3) _____

Cultural Diversity (3) _____ *ANTH 203 – 5cr recommended*

Literature & the Arts (3) _____

Social Process. & Instit. (3) _____ *ECON 201 – 5cr (recommended)*

Diff, Power & Discrim. (3) AG 301 AG 301 3 _____

SYNTHESIS COURSES (6 Cr) Must be in different departments

Contemporary Global Issues (3)

| | | | | | | |
|------------------------------|----------|----------|---|-------|-------|-------|
| World Food Crops | CROP 330 | CROP 330 | 3 | _____ | _____ | _____ |
| OR Global Crises in Res Ecol | FW 325 | FW 325 | 3 | _____ | _____ | _____ |

Science, Tech & Society (3)

| | | | | | | |
|---------------------------|----------|----------|---|-------|-------|-------|
| World Soil Resources | SOIL 395 | SOIL 395 | 3 | _____ | _____ | _____ |
| OR Cont Soc Iss Animal Ag | ANS 315 | ANS 315 | 3 | _____ | _____ | _____ |

WRITING INTENSIVE COURSE (WIC) (3 Cr)

| | | | | | | |
|------------------------------|---------|----------|---|-------|-------|----------------------|
| Nutrient Mgmt & Cycling | CSS 315 | CSS 315 | 4 | _____ | _____ | CHEM 101/102/CSS 305 |
| OR Wildlife in Ag Ecosystems | FW 435 | E-campus | 3 | _____ | _____ | _____ |
| OR Leadership Development | AG 421 | AG 421 | 3 | _____ | _____ | _____ |

NATURAL RESOURCES CORE (46 CREDITS)

**Credits Used to Satisfy Bacc Core; Some courses are offered ONLY on alternate years
 Many e-campus courses not listed meet requirements. Please refer to full list here: <http://nr.forestry.oregonstate.edu/>*

No double counting of classes among NR Core, Breadth and Option. A grade of C- or better is required in all upper division courses.

| | | | | | | |
|------------------------------|--------------------|--|---|-------|-------|-------|
| First-Year Experience | UNI 101 / CORE 101 | | 3 | _____ | _____ | _____ |
|------------------------------|--------------------|--|---|-------|-------|-------|

†Strongly recommended for new freshmen.

ANIMAL ID (2-4 Cr)

| | | | | | | |
|----------------|----------|----------|---|-------|-------|-------|
| Ornithology | BIOL 320 | Z UDT | 2 | _____ | _____ | _____ |
| OR Ornithology | FW 311 | E-campus | 3 | _____ | _____ | _____ |
| Mammology | FW 317 | E-campus | 3 | _____ | _____ | _____ |

ATMOSPHERIC SCIENCE (3-4 Cr)

| | | | | | | |
|-----------------------|---------|----------|---|-------|-------|-------|
| Intro. to Atmos. Sci. | ATS 210 | E-campus | 3 | _____ | _____ | _____ |
|-----------------------|---------|----------|---|-------|-------|-------|

CHEMISTRY (4 cr)

| | | | | | | |
|----------------------|----------|--------|---|-------|-------|-------------------------|
| Intro to Chem | CHEM 101 | CH LDT | 4 | _____ | _____ | MATH 095 |
| OR General Chemistry | CHEM 204 | CH 231 | 5 | _____ | _____ | MATH 111 (concurrently) |

BIOLOGICAL SCIENCES* (Entire series required- 200 series recommended)

| | | | | | | |
|---------------------------------|--------------|------------|-----|-------|-------|-------------------|
| Intro to Biol/Princ of Biol I | BIOL 101/211 | BI LDT/LD2 | 3/5 | _____ | _____ | MATH 070/MATH 111 |
| Intro to Biol/Princ of Biol II | BIOL 102/212 | BI LDT/LD2 | 3/5 | _____ | _____ | BIOL 101/211 |
| Intro to Biol/Princ of Biol III | BIOL 103/213 | BI LDT/LD2 | 3/5 | _____ | _____ | BIOL 102/213 |
| Intro to Biology-Lab | BIOL 104 | BI LDT* | 1 | _____ | _____ | Take w/BIOL 103 |

COMMUNICATIONS (3 Cr)

| | | | | | | |
|------------------------|---------|----------|---|-------|-------|-------|
| Conflict Management | COM 215 | | 3 | _____ | _____ | _____ |
| OR Communication Law | COM 285 | | 3 | _____ | _____ | _____ |
| OR Consensus & Nat Res | FES 485 | E-campus | 3 | _____ | _____ | _____ |

SOCIETY AND NATURAL RESOURCES (3-4 Cr)

| | | | | | | |
|--------------------------|-----------|----------|---|-------|-------|-------|
| Cultural Anthropology | ANTH 203* | ANTH 110 | 5 | _____ | _____ | _____ |
| OR Recreation Res. Mgmt. | FES 251 | E-campus | 4 | _____ | _____ | _____ |

EARTH SCIENCE (4 Cr)

| | | | | | | |
|-----------------------------|---------|----------|---|-------|-------|-------|
| The Solid Earth | GEO 101 | E-campus | 4 | _____ | _____ | _____ |
| OR The Surface of the Earth | GEO 102 | E-campus | 4 | _____ | _____ | _____ |
| OR Environmental Geology | GEO 221 | E-campus | 4 | _____ | _____ | _____ |

ENVIRONMENTAL ASSESSMENT & PLANNING (3-4 Cr)

| | | | | | | |
|------------------------------|---------|---------|---|-------|-------|---------|
| Wildland Restoration & Ecol. | RNG 421 | RNG 421 | 4 | _____ | _____ | RNG 341 |
| OR Rangeland Mgt Planning | RNG 490 | RNG 490 | 4 | _____ | _____ | RNG 341 |

GENERAL ECOLOGY (3-4 Cr)

| | | | | | | |
|-----------------|-----------------------|--------|---|-------|-------|-------|
| General Ecology | BIOL 357 [†] | BI 370 | 4 | _____ | _____ | _____ |
|-----------------|-----------------------|--------|---|-------|-------|-------|

[†]BIOL 357 requires completion of the 200-level Biology series. OSU requires completion of the 200-level series

GIS (3-4 Cr)

| | | | | | | |
|------------------|----------|----------|---|-------|-------|-------|
| Intro to Arc Map | GEOG 210 | | 4 | _____ | _____ | _____ |
| OR Intro to GIS | GEO 365 | E-campus | 4 | _____ | _____ | _____ |

MATHEMATICS (4 Cr)

| | | | | | | |
|-----------------------|----------|---------|---|-------|-------|----------|
| Pre-Calculus | MATH 112 | MTH LDT | 4 | _____ | _____ | MATH 111 |
| OR Survey of Calculus | MATH 241 | MTH 241 | 4 | _____ | _____ | _____ |

MEASUREMENTS (3 Cr)

| | | | | | | |
|---------------------------|----------|----------|---|-------|-------|----------------|
| Rangeland Analysis | RNG 441 | | 4 | _____ | _____ | RNG 341 |
| OR Rsrch Methods in Soc.S | FES 422 | E-campus | 4 | _____ | _____ | STAT 327 |
| OR Appl. Rsrch Methods | HDFS 360 | E-campus | 4 | _____ | _____ | STAT 201 (243) |

NATURAL RESOURCE POLICY (3-4 Cr)

| | | | | | | |
|-------------------------------------|---------|---------|---|-------|-------|-------|
| Intro to Water Sci & Policy | GEO 335 | Ecampus | 3 | _____ | _____ | _____ |
| OR Envir. Politics and Policy | PS 475 | PS 475 | 4 | _____ | _____ | _____ |
| OR Int'l Envir. Politics and Policy | PS 477 | PS 477 | 4 | _____ | _____ | _____ |

NATURAL RESOURCE SEMINARS

| | | | | | | |
|---------------------------------|--------|----------|---|-------|-------|-------|
| Managing Nat Res for the Future | NR 201 | E-campus | 3 | _____ | _____ | _____ |
|---------------------------------|--------|----------|---|-------|-------|-------|

RESOURCE ECONOMICS (3-4 Cr)

| | | | | | | |
|----------------|-----------|--|---|-------|-------|----------|
| Microeconomics | ECON 201* | | 5 | _____ | _____ | MATH 095 |
|----------------|-----------|--|---|-------|-------|----------|

STATISTICS (4 Cr)

| | | | | | | |
|--------------------------------|----------|--------|---|-------|-------|-------|
| Elem. Statistics | STAT 243 | ST LDT | 4 | _____ | _____ | _____ |
| <i>OR</i> Stat and Exp. Design | STAT 327 | ST 351 | 4 | _____ | _____ | _____ |

SOIL SCIENCE (4 Cr)

| | | | | | | |
|----------------------------|---------|----------|---|-------|-------|----------|
| Principles of Soil Science | CSS 305 | SOIL 205 | 4 | _____ | _____ | CHEM 101 |
|----------------------------|---------|----------|---|-------|-------|----------|

WATER SCIENCE (4 Cr)

| | | | | | | |
|-----------------------|---------|---------|---|-------|-------|---------|
| Desert Watershed Mgmt | RNG 355 | RNG 355 | 3 | _____ | _____ | RNG 341 |
|-----------------------|---------|---------|---|-------|-------|---------|

VEGETATION ID (3-5 Cr)

| | | | | | | |
|---------------------------|----------|----------|---|-------|-------|-------------------|
| Wildland Plant ID | RNG 353 | RNG 353 | 4 | _____ | _____ | RNG 341 |
| <i>OR</i> Plant Taxonomy | BIOL 334 | BOT UDT | 5 | _____ | _____ | _____ |
| <i>OR</i> Agrostology | BIOL 421 | BOT 414 | 4 | _____ | _____ | _____ |
| <i>OR</i> Weed Management | CROP 440 | CROP 440 | 4 | _____ | _____ | 1 Yr. BIOL & CHEM |

NATURAL RESOURCES BREADTH (21 CREDITS)

| | | | | | | |
|--------------------------------------|-------|-------|---|-------|-------|---------------------|
| Fisheries and Wildlife (3 Cr) | _____ | _____ | 3 | _____ | _____ | OSU Ecampus Options |
|--------------------------------------|-------|-------|---|-------|-------|---------------------|

| | | | | | | |
|------------------------|-------|-------|---|-------|-------|---------------------|
| Forestry (3 Cr) | _____ | _____ | 3 | _____ | _____ | OSU Ecampus Options |
|------------------------|-------|-------|---|-------|-------|---------------------|

Land & Water (3 Cr)

| | | | | | | |
|--------------------------------|---------|----------|---|-------|-------|----------|
| Principles of Soil Science | CSS 305 | SOIL 205 | 4 | _____ | _____ | CHEM 101 |
| <i>OR</i> World Soil Resources | CSS 395 | SOIL 395 | 3 | _____ | _____ | CSS 305 |
| <i>OR</i> Soil Morph & Class. | CSS 466 | SOIL 466 | 4 | _____ | _____ | RNG 341 |
| <i>OR</i> Desert Watershed Mgt | RNG 355 | RNG 355 | 3 | _____ | _____ | _____ |

Political Dimensions (3 Cr)

| | | | | | | |
|------------------------------|--------|--------|---|-------|-------|-------|
| Global Crises in Res Ecology | FW 325 | FW 325 | 3 | _____ | _____ | _____ |
|------------------------------|--------|--------|---|-------|-------|-------|

Range (3 Cr)

| | | | | | | |
|---|-------|-------|-------|-------|-------|-------|
| RNG 341, RNG 351, RNG 352, RNG 421, RNG 441, RNG 490 | _____ | _____ | _____ | _____ | _____ | _____ |
|---|-------|-------|-------|-------|-------|-------|

Resource Values/Philosophy (3 Cr)

| | | | | | | |
|---------------------------------|----------|----------|---|-------|-------|-------|
| Ecosys Sci of PNW Indians | AG 301* | AG 301 | 3 | _____ | _____ | _____ |
| <i>OR</i> Environmental History | HIST 345 | ENSC UDT | 5 | _____ | _____ | _____ |

Social Issues (3 Cr)

| | | | | | | |
|---------------------------------|----------|----------|---|-------|-------|-------|
| Human Ecology | ANTH 325 | ANTH UDT | 3 | _____ | _____ | _____ |
| <i>OR</i> Environment & Society | SOC 370 | ANTH UDT | 5 | _____ | _____ | _____ |

OPTIONS (40 CREDITS)

ARID LAND ECOLOGY

Arid Land Ecology – This is the best fit for EOU classes. There are other options available through OSU Ecampus. See the Natural Resources website for more details.

Courses in Rangeland Sciences (18 Cr)

| | | | | | |
|-------------------------------|---------|---------|-------|--|---------|
| Range Ecol & Mgt | RNG 341 | RNG 341 | 3 | | |
| Range Ecol I: Shrublands | RNG 352 | RNG 352 | 3 | | RNG 341 |
| Wildland Plant Identification | RNG 353 | RNG 353 | 4 | | |
| Wildland Restor & Ecol | RNG 421 | RNG 421 | 4 | | RNG 341 |
| Rangeland-Animal Relations | RNG 442 | RNG 442 | 4 | | RNG 341 |
| | | | 18 Cr | | |

Courses in Animals, Plants, Soils and Ecology (22 Cr)

| | | | | | |
|---------------------------|----------|---------------|-------|--|------------------|
| Plant Taxonomy | BIOL 334 | BOT UDT | 5 | | BIOL 101/BOT 202 |
| Agrostology | BIOL 421 | BOT 414 | 4 | | BIOL 334 |
| Plant Physiology | BIOL 433 | BOT 331 | 5 | | BIOL 101/BOT 202 |
| Soil Morphology & Class. | CSS 466 | SOIL 466 | 4 | | CSS 305 |
| Animal Nutrition | ANS 311 | ANS 311 | 3 | | BIOL 101/BOT 202 |
| Prob. Solv: Soil Sci Appl | CSS 306 | SOIL 206 | 1 | | Take w/CSS 305 |
| | | | 22 Cr | | |
| | | Total Credits | 40 Cr | | |

FISH AND WILDLIFE CONSERVATION

Required Courses (22 Cr)

| | | | | | | |
|---|----------------|----------|---|--|--|----------|
| Intro to Forestry | FOR 111 | FOR 111 | 3 | | | |
| Prin of F & W Conserv. | FW 251 | FW 251 | 3 | | | MATH 111 |
| Rangeland Ecology and Mgt | RNG 341 | RNG 341 | 3 | | | |
| Riparian Ecology and Mgt | RNG 455 | RNG 455 | 3 | | | RNG 355 |
| Topics in Wildland Fire | FOR/FW/RNG 346 | E-campus | 3 | | | |
| OR Wildland Fire Sci. & Mgt | FOR/RNG 436 | E-campus | 4 | | | |
| OR Wildland Fire Ecology | FOR/FW/RNG 446 | E-campus | 3 | | | |
| Mgt Prin of Pac Salmon in NW | FW 323 | E-campus | 3 | | | |
| OR Ecology and History: Landscapes of the Columbia Basin | FW 470 | E-campus | 3 | | | |
| OR Origins of Fish and Wildlife Mgt | FW 360 | E-campus | 3 | | | |
| Ecological Restoration | FES/FW 445 | E-campus | 4 | | | |
| | | Subtotal | | | | |

Fish and Wildlife Biology (Choose three of the following)

| | | | | | | |
|--|----------|----------|---|--|--|--|
| Ornithology | BIOL 320 | Z UDT | 2 | | | |
| OR Ornithology | FW 311 | E-campus | 3 | | | |
| Mammology | FW 317 | E-campus | 3 | | | |
| Ichthyology | FW 315 | E-campus | 3 | | | |
| Intro Population Dynamics | FW 320 | E-campus | 4 | | | |
| Applied Community & Ecosystem Ecology | FW 321 | E-campus | 3 | | | |

Habitat Management (Choose two of the following)

| | | | | | | |
|-------------------------------|--------|----------|---|--|--|--|
| Integrated Watershed Mgmt | FW 326 | E-campus | 3 | | | |
| Wildlife in Ag Ecosystems | FW 435 | E-campus | 3 | | | |
| Wetlands and Riparian Ecology | FW 479 | E-campus | 3 | | | |

Natural Resources Policy (Choose one of the following)

| | | | | | | |
|-------------------------------|---------|----------|---|--|--|------------------|
| Environment/Society | SOC 370 | ANTH UDT | 5 | | | ANTH 203/SOC 205 |
| Envir. Politics & Policy | PS 475 | E-campus | 4 | | | |
| Society and Natural Resources | SOC 481 | E-campus | 4 | | | |

Total 41 or 42 Cr