Natural Resources OSU-Cascades
CURRICULUM GUIDE checklist: B.S. in NATURAL RESOURCES ~
Specialty Option: Conservation and Technology

University Graduation Requirements:
• 180 college credits
• 60 of the 180 credits must be Upper Division
• 45 out of the last 75 credits in your degree must be from OSU

NR Graduation requirements:
• Natural Resources students complete classes in four areas: the Baccalaureate Core, Natural Resources Core, Natural Resources Breadth, and a Specialty Option courses CANNOT be shared in the NR Core, Breath, and Option.
• Only 2 courses may be taken S/U in the major
• NR Core and Breath minimum GPA 2.0
• Specialty Option minimum GPA 2.25

BACCALAUREATE CORE
Students who have completed an AAOT degree have completed Skills and Perspectives sections of the Bacc Core Use the Bacc Core course guide for course options for each requirement.

X = courses fulfilled with major requirements

<table>
<thead>
<tr>
<th>Skills (15)</th>
<th>grade</th>
<th>course</th>
</tr>
</thead>
<tbody>
<tr>
<td>___ ___ ___</td>
<td>Writing I (3) (WR 121)</td>
<td></td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Writing II (3)</td>
<td></td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Speech (3)</td>
<td></td>
</tr>
<tr>
<td>___ X__ MTH__</td>
<td>Mathematics (3) (Satisfied by MTH req. in NR Core)</td>
<td></td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Fitness (3)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Perspectives (24)</th>
<th>(No more than two Perspectives courses from same dept.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>grade term course</td>
<td>Physical Science (including lab) (4) (Satisfied by Earth Science)</td>
</tr>
<tr>
<td>___ X__ GEO ___</td>
<td>Biological Science (including lab) (4) (Satisfied by BI 101 or 211)</td>
</tr>
<tr>
<td>___ X__ BIO ___</td>
<td>Physical/Biological Science (including lab) (4) (Satisfied by BI 102 or 212)</td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Western Culture (3)</td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Cultural Diversity (3)</td>
</tr>
<tr>
<td>___ ___ ___</td>
<td>Literature and the Arts (3)</td>
</tr>
<tr>
<td>___ X__ EC 201</td>
<td>Social Processes and Institutions (3) (satisfied by ECON 201)</td>
</tr>
<tr>
<td>___ X__ FW 340</td>
<td>Difference, Power, &amp; Discrimination (satisfied by FW 340)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Synthesis (6)</th>
<th>(Synthesis courses may not be from same department)</th>
</tr>
</thead>
<tbody>
<tr>
<td>grade term course</td>
<td>Contemporary Global Issues (3) (satisfied by SUS 350 or FES 365)</td>
</tr>
<tr>
<td>___ X__ FES 365</td>
<td>Science, Technology, and Society (3) (satisfied by FW 350, or GEO 335)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIC</th>
<th>grade term course</th>
</tr>
</thead>
<tbody>
<tr>
<td>___ X__ ENSC 479</td>
<td>Writing Intensive Course (3) (satisfied by BI 371 or ENSC 479)</td>
</tr>
</tbody>
</table>

DM 11/13/15: 2015-16 catalog
NATURAL RESOURCES CORE (72-80 credits)

- GPA 2.0 minimum
- Courses below are all taught at the OSU-Cascades Campus. Not all courses are taught each term or each year. Students must work utilize forecast course planning tools to create an academic plan. Students are responsible check pre-reqs for each course.

Animal ID
Choose one course from below:
- FW 212: Survey of NW Birds COCC
- FW 218: Survey of NW Mammals COCC
- FW 312 Systematics of Birds OSU
- FW 318 Systematics of Mammals OSU
- Z 447 Aquatic Entomology OSU

Atmospheric Science
- GEOG 279: Weather and Climate COCC

Biology
Choose 1 sequence below:
- BI 101, BI 102, BI 103: General Biology
- or BI 211, BI 212, BI 213: Principles of Biology
*HIGHLY SUGGEST to complete BI 211-213

Chemistry
- CH 104 General Chemistry COCC
- or CH 221 General Chemistry COCC
*CH 221 highly suggested for prep BI 211-213

Earth Science
Choose one course from below:
- G 201: Geology I COCC
- G 202: Geology II COCC
- GEO 201: Physical Geology OSU

GIS
- GEOG 265: Geographical Info Systems COCC

Mathematics
Choose one COCC or OSU course from below:
- MTH 112: Elementary Functions
- MTH 241: Calculus for Mgmt and Social Sci
- MTH 245: Mathematics for Mgmt, Life, and Social Sci
- MTH 251: Differential Calculus

Soil Science
- FOR 208: Soil Science COCC
- or SOIL 205/206: Soil Sci OSU

Statistics
- MTH 243: Statistics I COCC
- or ST 351: Introduction to Stat Methods

Communications
Choose one OSU course from below:
- COMM 321: Introduction to Communication Theory
- COMM 328: Nonverbal Communication
- COMM 440: Theories of Conflict and Conflict Mgmt.
- FES 360: Collaboration and Conflict Mgmt.

Environmental Assessment and Planning
Choose one course from below:
- FES 445: Ecological Restoration *Pre-req Ecology
- SUS 304: Sustainability Assessment

General Ecology
Choose one course from below:
- BI 370, Ecology * Pre-req BI 211-213
- FOR 240A: Forest Ecology COCC
- FES 341: Forest Ecology

Managing Natural Resources for the Future
- NR 407: Seminar- Managing NR for the Future

Measurements
Choose one course from below:
- BI 371: Ecological Methods * Pre-req BI 370 [WIC]
- FOR 235: Resource Measurements COCC
- FOR 230B (pre-req FOR230A) Forest Srvy COCC

Natural Resource Decision Making
- NR 455: Natural Resource Decision Making

Natural Resource Policy
- GEO 335: Introduction to Water Science and Policy
- or PS 475: Environmental Politics and Policy

Resource Economics * Pre-req EC/ECON 201
- AREC 352: Environmental Economics and Policy

Society and Natural Resources
Choose one course from below:
- ANTH 103: Cultural Anthropology COCC
- FOR 251: Recreation Resource Mgmt COCC

Water Science
Choose one course from below:
- FW 326 Integrated Watershed Mgmt
- RNG 355: Desert Watershed Mgmt

Vegetation ID
- FOR 241 A: Dendrology COCC (or FOR241B)
Natural Resources Breadth (18-22)

Fisheries and Wildlife (Choose one)
FW 311: Ornithology
FW 317: Mammalogy
FW 320: Population Dynamics *pre-req BI 370 or ecology
FW 323: Mgmt. Pacific Salmon of NW
FW 350: Endangered Species, Society and Sustainability
FW 481: Wildlife Ecology *pre-req BI 370 or ecology

Forestry (Choose one)
FES 341: Forest Ecology
FES 445: Restoration Ecology *pre-req BI 370 or ecology
FOR 446: Wildland Fire Ecology

Land and Water (Choose one)
FW 479: Wetlands and Riparian Ecology *pre-req ecology
GEO 307: National Park Geology and Preservation
GEO 308: Global Change and Earth Sciences

Natural Resources Core, Natural Resources Breadth, and a Specialty Option courses cannot be shared in the NR Core, Breath, and Option.

OPTION: NR Conservation and Technology (40 credits)
- Natural Resources Core, Natural Resources Breadth, and a Specialty Option courses cannot be shared in the NR Core, Breath, and Option.
- No more than 20 credits from one department; no more than 20 lower-division credits can apply to the Option.

Conservation Courses: (each course required)
FES 365 (3) Issues in NR Conservation
FW 251 (3) Wildlife Conservation COCC
FW 350 (3) Endangered Species, Society, & Sustainability

Technology Courses: (choose 3 courses from list)
FOR 236 (3) Aerial Photo COCC course [rec pre-req FOR 230A &B]
FOR 235 (4) Resource Measurements COCC (or BI 371, no double count w/ Measurements requirement)
FOR 230A (3) Map, Compass, & GPS COCC
FOR 230B (3) Forest Surveying COCC [rec pre-req FOR 230A]
FOR 199 (2) Datasets in NR OSU
SOIL 408/NR 499 (2 total) Soil Judging Workshop/ or Field Instruments

Sustainability:
SUS 350 (4) Sustainable Communities

Ecology and Ecosystems: (18-19 credits from the list)
- Additional courses may be approved by petition to count in the section
BI 349 (3) Biodiversity: Causes, Consequences and Conservation
ENSC 479 (3) Case Studies [WIC]
FOR 2408 (3) Wildlife Ecology COCC
FOR 353 (3) Field School
FOR/FW 446 (3) Wildland Fire Ecology [pre-req ecology course]
FES 445 (4) Ecological Restoration [pre-req ecology course]
FW 311 (3) Ornithology
FW 317 (3) Mammalogy
FW 320 (3) Intro to Population Dynamics [pre-req BI 370 or approval]
FW 323 (3) Mgmt of Pacific NW Salmon
FW 326 (3) Integrated Watershed Mgmt
FW 479 (3) Wetlands and Riparian Salmon [pre-req BI 370 or instructor approval]
FW 481 (4) Wildlife Ecology [pre-req BI 370 or instructor approval]
PS 475 (4) Environmental Politics and Policy
SOIL 366 (3) Soil Morphology and Classification [pre-req soil course]
Z 477 (4) Aquatic Entomology [pre-req BI 211-213]