

**NATURAL RESOURCES B.S. DEGREE  
Specialization Option Checklist:  
 Landscape Analysis**

Date Prepared: By:

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| **Student Name** | **Student ID#** | **Current Institution/Campus/Major** |
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| **Email Address** |  | |

\*=Baccalaureate Core / ^ =WIC (Writing Intensive Course

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| **LANDSCAPE ANALYSIS SPECIALIZATION OPTION REQUIREMENTS** | | | |
| **MEASUREMENTS (4 credits ) CHOOSE ONE** | | **Fulfilled by:** | **Note #** |
| \_\_\_ Forest Surveying(4) | FE 208 |  |  |
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| **GEOGRAPHIC INFORMATION SCIENCE (16 Credits) REQUIRED** | | **Fulfilled by:** | **Note #** |
| \_\_\_ Foundations of Geospatial Science and GIS (4) | GEOG 201 |  |  |
| \_\_\_ GIScience I: Geographic Information Systems and Theory (4) | GEOG 360 |  |  |
| \_\_\_ **OR** GIS and Forest Engineering Applications | FE 257 |  |  |
| \_\_\_ Geo-Visualization: Cartography (4) | GEOG 370 |  |  |
| \_\_\_ Remote Sensing I: Principles and Applications (4) | GEOG 480 |  |  |
| \_\_\_ **OR** Remote Sensing and Photogrammetry | FE 444 |  |  |
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| **GEOGRAPHIC INFORMATION SCIENCE ELECTIVES (7- 8 credits) CHOOSE TWO** | | **Fulfilled by:** | **Note #** |
| \_\_\_ GIS in Water Resources (3) | CE 413 |  |  |
| \_\_\_ Precision Agriculture (4) | CROP/HORT 414 |  |  |
| \_\_\_ Forest Route Surveying (4) | FE 310 |  |  |
| \_\_\_ Unmanned Aircraft Systems Remote Sensing (3) | FE 423 |  |  |
| \_\_\_ Survey of Geographic Information Systems in Natural Resources (3) | FW 303 |  |  |
| \_\_\_ GIScience II: Analysis and Applications (4) | GEOG 361 |  |  |
| \_\_\_ Geovisualization: Web Mapping (4) | GEOG 371 |  |  |
| \_\_\_ Planning Principles and Practices for Resilient Communities (4) | GEOG 451 |  |  |
| \_\_\_ GIS and Spatial Data Science | GEOG 460 |  |  |
| \_\_\_ GIScience III: Programming for Geospatial Analysis (4) | GEOG 462 |  |  |
| \_\_\_ Geospatial Perspectives on Intelligence, Security and Ethics (3) | GEOG 464 |  |  |
| \_\_\_ Geo-Visualization: Geo-visual Analytics (3) | GEOG 472 |  |  |
| \_\_\_ Remote Sensing II: Digital Image Processing (4) | GEOG 481 |  |  |
| \_\_\_ Internship | NR 410 |  |  |
| \_\_\_ Soil Landscape Analysis (4) | SOIL 468 |  |  |
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| **NATURAL RESOURCE ELECTIVES (CHOOSE 11 CREDITS MINIMUM)** | | **Fulfilled by:** | **Note #** |
| Choose a minimum of 11 credits in a disciplinary area related to GIScience to reach a minimum of 40 credits in the option. Student will be required to submit an academic plan for completion of the option which will be approved by the Natural Resources Program Director or Academic Advisor. | | | |
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| Note: Up to 6 credits of appropriate internships, projects or study abroad may be used to fulfill credit requirements as approved by petition. | | | |

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| **A Specialization Option is required for the Natural Resources major. (Minimum of 37 credits with at least 20 of those being upper division credits.) Required minimum GPA for the specialization is 2.25. This option is available on the Corvallis campus and Ecampus.** | |

Revised 7.2023 for Natural Resources curriculum version 3.0 effective summer 2018