

**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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| COMMENTS: | | |

\*= Baccalaureate Core / ^ = WIC (Writing Intensive Course / + = Core Ed (for students admitted Summer 2025 onward)

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| **LANDSCAPE ANALYSIS SPECIALIZATION REQUIREMENTS** | | | | |
| **MEASUREMENT AND ANALYSIS (4 credits ) CHOOSE ONE** | | | **Fulfilled by:** | **Note #** |
|  | Forest Surveying (4) | FE 208 |  |  |
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| **FOUNDATIONS OF GEOGRAPHIC INFORMATION SCIENCE (15-16 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 (3) | FE 257 |
|  | Cartography (4) | GEOG 370 |  |  |
|  | Remote Sensing: Principles and Applications (4) | GEOG 380 |  |  |
| ***OR*** FE 444 Forest Remote Sensing and Photogrammetry (4) | 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 414/HORT 414 |  |  |
|  | Forest Route Surveying (4) | FE 310 |  |  |
|  | Unmanned Aircraft System Remote Sensing (3) | FE 423 |  |  |
|  | Survey of Geographic Information Systems in Natural Resources (3) | FW 303 |  |  |
|  | Quantitative Geospatial Analysis and Modeling (4) | GEOG 361 |  |  |
|  | Planning Principles and Practices for Resilient Communities (4) | GEOG 451 |  |  |
|  | GIS and Spatial Data Science (4) | GEOG 460 |  |  |
|  | Analytical Workflows for Earth Systems Science | GEOG 463 |  |  |
|  | Geospatial Perspectives on Intelligence, Security and Ethics (3) | GEOG 464 |  |  |
|  | Satellite Image Analysis (4) | GEOG 481 |  |  |
|  | Internship (credits vary) | NR 410 |  |  |
|  | Soil and 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.) The minimum required GPA for the specialization is 2.25. This option is available on the Corvallis Campus and Ecampus.** | |

Revised 3.2025 NR Curriculum version 4.0 effective Summer 2025 onward.