NRT

**2025–2026 NATURAL RESOURCE AND ENVIRONMENTAL CONSERVATION MAJOR**
**Natural Resource Technology Concentration** (Sample Schedule)
Total Hours = 124

*effective Fall 2025*

| | | | |
|---|---|---|---|
| **FRESHMAN YEAR** | | | |
| Fall Semester | | Spring Semester | |
| BIO 1134 | Biology I | BIO 1144 | Biology II |
| CH 1043 | Survey of Chemistry I | **FO 3103** | **Computer Appl For Resources** |
| EN 1103 | English Composition I (ACT English subscore 17) | EN 1113 | English Composition II (EN 1103) |
| **NREC 1102** | **Survey of Natural Resource Management** | GR 1113 | Physical Geography |
| | Free Elective (3) | MA 1323 | Trigonometry (C in MA 1313 or ACT math subscore of 24) |
| **SOPHOMORE YEAR** | | | |
| Fall Semester | | Spring Semester | |
| **FO 2113** | **Dendrology** (BIO 1144 or BIO 2113) | | Communication Elective (3) |
| PSS 3303 | Soils (CH 1043) | FO 2213 | Forest Measurements (ST 2113) |
| PSS 3301 | Soils Lab | GR 2313 | Maps and Remote Sensing |
| SO 1003 | Introduction to Sociology | **NREC 3213** | **Environmental Measurements** (ST 2113 and PSS 3303) |
| ST 2113 | Intro to Stats (C in MA 1313 or MA 1213 or ACT math subscore 24) | | Professional Elective (3) |
| | Free Elective (2) | | |
| **JUNIOR YEAR** | | | |
| Fall Semester | | Spring Semester | |
| **NREC 3113** | **Forest Recreation Mgt.** | **FO 4213** | **Forest Biometrics** (FO 2213 or NREC 3213) |
| **NREC 4313** | **Spatial Tech Nat Res Mgmt** (GR 2313 or FO 3015) | LA 1803 | Landscape Architecture Appreciation |
| PH 1123 | Intro to Ethics | **NREC 4353** | **Natural Resource Law** (JR) |
| FO 4453 | Remote Sensing Applications (JR) (FA-Even) (FO 3015 or GR 2313) | | Professional Elective (3) |
| | | | Technical Writing Elective (3) |
| **NREC 4333** | **Eco Risk Assess and Chem Reg** | | |
| **SENIOR YEAR** | | | |
| Fall Semester | | Spring Semester | |
| AEC 2713 | Intro to Food and Res Economics | **NREC 4413** | **Natural Resource Policy** (SR) |
| FO 4473 | GIS Nat. Res. Mgt. and Lab (JR) (FA-Odd)(FO 3015 or GR 2313) | **NREC 4423** | **Environmental Assessments** (SR) |
| | | | Humanities Elective (3) |
| **NREC 4733** | **Clim Chng Resil Nat Res** | | Professional Elective (3) |
| **FO 4343** | **Forest Admin and Organization (JR)(FA-Event** | | Professional Elective (3) |
| | Ecology Elective (3) | | |
| | Professional Elective (3) | | |

**NREC major required courses requiring a C or better or bolded.**

# SECTION III: DEPARTMENT OF FORESTRY

NRT

**2025–2026 APPROVED ELECTIVE LIST**

Natural Resource Technology Concentration

| **HUMANITIES ELECTIVES** (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS) | |
|---|---|
| AAS 1063 | Introduction to African American Studies |
| AAS 2363 | Introduction to African American Literature |
| AAS 3013/3023 | African American History |
| ARC 2313/3313 | History of Architecture I or II |
| EN 2203 | Intro. to Literature (EN 1103, EN 1113) |
| EN 2213/2223 | English Literature I or II (EN 1103, EN 1113) |
| EN 2243/2253 | American Literature I or II (EN 1103, EN 1113) |
| EN 2273/2283 | World Literature I or II(EN 1103, EN 1113) |
| EN 2463 | Lit and Pop Culture (EN 1113) |
| FL 1113/1123 | Language I or II |
| HI 1003 | History of Science in Six Ideas |
| HI 1013 | History of Technology in Six Objects |
| HI 1063/1073 | Early or Modern US History |
| HI 1163/1173 | World History I or II |
| HI 1213/1223 | Early or Modern Western World |
| HI 1313/1323 | East Asian Civilizations I or II |
| HI 4683 | Europe: The First World War to Hitler |
| PHI 1103 | Intro. to Philosophy |
| PHI 1113 | Intro. to Logic |
| PHI 3023/3033 | History of Western Philosophy I or II |
| PHI 3153 | Aesthetics |
| REL 1103 | Intro. to Religion |
| REL 3213/3223 | World Religions I or II |
| **TECHNICAL WRITING ELECTIVES (3 HOURS):** | |
| AELC 3203 | Prof Writing Ag, NR, Human Sci. (JR) (EN 1103 or EN 1113) |
| BIO 3013 | Prof Writ for Biol (JR) |
| EDF 3413 | Writing for Thinking (EN 1103, EN 1113) |
| EN 3313 | Writing for the Workplace (EN 1113) |
| MGT 3213 | Org Communications (JR) (EN 1113) |
| **COMMUNICATION ELECTIVES** (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS) | |
| CO 1003 | Fundamentals of Public Speaking |
| CO 1013 | Introduction to Communication |

| **PROFESSIONAL ELECTIVES (21 HOURS)** | |
|---|---|
| ABE 2873 | Land Surveying (MA 1323) |
| ABE 3513 | GPS/GIS – AG & ENG (MA 1313 and 1323) |
| ABE 4263 | Soil and Water Mgt (ABE 2873) |
| BIO 2503 | Environmental Qual (any BIO course) |
| BIO 4233 | Living with Global Change |
| CE 2803 | Environ Engr Issues (C or better in CH 1223) |
| CFR 1101 | Ambassador Lead Dev. (up to 3hrs) |
| ENS 2103 | Intro Environ Sci |
| GG 1111 | Earth Science Lab |
| GG 1113 | Survey Earth Sci I |
| GG 1121 | Earth Science II Lab |
| GG 1123 | Survey Earth Sci II |
| GG 3613 | Water Resources |
| GR 3113 | Conservation of Nat Res |
| GR 3303 | Survey Geospatial Tech (GR 2313) |
| GR 4303 | Principles of GIS |
| GR 4313 | Advanced GIS (GR 4303 or consent) |
| GR 4323 | Cartographic Sciences (JR) |
| GR 4343 | Adv Remote Sensing/Geosci (GR 4333 or ECE 4423 or FO 4453 or consent) |
| GR 4353 | Geodatabase Design (GR 4303) |
| GR 4363 | GIS Programming (GR 4303 or consent) |
| NREC 4800 | Undergraduate Research (up to 3 hrs) |
| PHI 3313 | Environmental Ethics |
| PSS 4483 | Intro to Remote Sensing (SR) |
| FO, NREC, SBP, WFA | Any course 3000 or higher |
| Courses for a GIS minor may be used as professional electives. | |
| **ECOLOGY ELECTIVES (3 HOURS):** | |
| BIO 3104 | Ecology (BIO 1134) |
| FO 4123 | Forest Ecology (BIO 1144 or BIO 2113)(JR) |
| WFA 3133 | Applied Ecology (BIO 1134, BIO 1144) |

# SECTION III: DEPARTMENT OF FORESTRY

NRT

| APPROVED SUBSTITUTIONS LIST FOR NATURAL RESOURCE TECHNOLOGY CONCENTRATION | |
|---|---|
| Required Courses | Approved Substitutions |
| AEC 2713 Intro to Food & Resource Economics | EC 2113 Macroeconomics; EC 2123 Microeconomics |
| CH 1043 Survey of Chemistry I | CH 1213 Chemistry I (ACT Math subscore 24 or MA 1313 grade of C or better) |
| EN 1103 En Composition I (ACT English subscore 17) | EN 1104 Expanded English Composition I (ACT English subscore 16 or below) |
| EN 1113 En Composition II (EN 1103) | EN 1173 Accelerated (ACT English subscore 28 or higher) |
| GR 1113 Physical Geography | CH 1053 Survey of Chem II, PH 1113 General Physics (ACT Math Subscore 26 or MA 1323) |
| ST 2113 Intro to Stats (C in MA 1313 or MA 1213 or ACT math subscore 24) | ST 3123 Intro to Stat Inf (ACT Math subscore 24 or C in MA 1313), BQA 2113 Business Statistics (MA 1613 or MA 1713 and BIS 1012 or equivalent) |