*`Appendix 1: Listing of courses for the proposed new major by submajors and techniques options*

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| --- | --- | --- | --- | --- | --- |
| Core and Submajor Course Listings | Credits | Required | GenEd | Online | Comments/Pre-requisites |
| Core  |  |  |  |  |  |  |
| ENVSCI 200- Introduction to Environmental Science | 4 | Y |  |  | Math 140 or 141 (co-req) |
| GEOGRAPY 252- Human Environmental Problems | 3 |   | Y | Y | Optional with HISTRY 190 |
| HISTRY 190- N. American Environmental History | 3 |   | Y |  | Optional with GEOGRAPY 252 |
| CHEM 102- Introduction to Chemistry  | 5 | Y | Y |  | MATH 141 |
| PHYSCS 100- Energy |  | 3 | Y | Y | Y |  |
| ENGLISH 372- Technical and Scientific Writing (Env. Writing focus) | 3 | Y |  |  |  |
| ENVSCI 400- Environmental Science Capstone | 3 | Y |  |  | Env. Sci. Major; Senior Standing; or Instr. Permission |
|  |  |  |  |  |  |  |
| Approved Course Natural Sciences |  |  |  |  |  |  |
| BIOLOGY 141- Introduction to Biology I | 4 | Y | Y |  | MATH 140 or 141 |
| BIOLOGY 142- Introduction to Biology 2 | 4 | Y | Y |  | MATH 140 or 141 |
| GEOG 210- Physical Geography | 5 |  | Y | Y | MATH 141 |
| GEOLGY 301- Environmental Geology | 3 |  |  |  | MATH 140 or 141 |
| PHYSCS 130- Physics Foundations | 5 |  | Y |  | MATH 141 |
| BIOLOGY 251- Introduction to Genetics | 3 |  |  |  | BIOLOGY 120 or 141 |
| BIOLOGY 257- Introduction to Ecology | 3 |  |  |  | BIOLOGY 141 and 142 |
| BIOLOGY 258- Field Experience | 2 |  |  |  | BIOLOGY 141 and 142 |
| BIOLOGY 353- Plant Taxonomy | 3 |  |  |  | BIOLOGY 141 and 142 |
| BIOLOGY 370- Aquatic Biology | 3 |  |  |  | CHEM 102; BIOLOGY 214 or 257 |
| BIOLOGY 442- Environmental Toxicology | 3 |  |  |  | CHEM 102; BIOLOGY 214 or 257 |
| BIOLOGY 450- Entomology | 3 |  |  |  | BIOLOGY 141 and 142 |
| BIOLOGY 451- Nat. History of Yellowstone NP & Upper Great Plains | 3 |  |  |  |  |
| BIOLOGY 457- General Ecology | 4 |  |  |  | BIOLOGY 251, 257, 258, 303 |
| BIOLOGY 491- Travel Study to the OuterBanks | 3 |  |  |  |  |
| Internship- Internship in any of numerous disciplines | 3 |  |  |  |  |
|  |  |  |  |  |  |  |
| Geosciences |  |  |  |  |  |  |
| GEOG 210- Physical Geography | 5 | Y | Y | Y | Math 141 |
| GEOLGY 301- Environmental Geology | 3 | Y |  |  |   |
| BIOLOGY 141- Introduction to Biology I | 4 |   | Y |  | MATH 140 or 141 |
| BIOLOGY 142- Introduction to Biology 2 | 4 |   | Y |  | MATH 140 or 141 |
| PHYSCS 130- Physics Foundations | 5 |  | Y |  | MATH 141 |
| GEOGRPY 120- Intro. To Weather & Climate (Online) | 4 |  | Y | Y | Unreq. GEOG 320 |
| GEOGRPY 290- Spatial Analysis | 3 |  |  |  | Math 143 |
| GEOGRPY 300- Soil Science | 3 |  |  |  | GEOG 210 |
| GEOGRPY 310- Geomorphology | 3 |  |  |  | GEOG 210 |
| GEOGRPY 320- Meteorology and Climate | 3 |  |  |  | GEOG 210; Unreq. GEOG 120 |
| GEOGRAPY 323- Water Resources | 3 |  |  |  | GEOG 210 |
| GEOGRAPY 330- Biogeography | 3 |  |  |  | GEOG 210 |
| GEOGRAPY 352- Geohazards | 3 |  |  |  | GEOG 210 |
| GEOGRAPY 377- Remote Sensing of the Environment | 3 |  |  |  | GEOG 210 |
| GEOGRAPY 420- Human Climate Interactions | 3 |  |  |  | GEOG 210 and 252 or 320 |
| GEOGRAPY 423- Rivers and Floods | 3 |  |  |  | GEOG 210, 323 |
| GEOGRAPY 450- Advanced Methods in Physical Geography | 4 |  |  |  | GEOG 300 or 310; GEOL 301 |
| GEOGRAPY 470- Applied Environmental and Natural Resource GIS | 3 |  |  |  | GEOG 270, 370 |
| GEOGRAPY 485- Internship in Geography | 3 |  |  |  |  |
| GEOGRAPY 492- Field Course |  |  |  |  |  |
| GEOLGY 204- Earth and Life History | 3 |  | Y | Y | Math 140 or 141 |
| GEOLGY 300- Oceanography | 3 |  | Y | Y |  |
| GEOLGY 310- Rocks and Minerals | 3 |  |  |  | GEOG 210 or GEOLGY 100 |
| GEOLGY 317- Paleontology | 3 |  |  |  | GEOLOGY 100 or 204 or BIOL 142 |
| GEOLGY 352- Geohazards | 3 |  |  |  | GEOG 210 or GEOLGY 100 |
| GEOLGY 451- Nat.History of Yellowstone NP & Upper Great Plains | 3 |  |  |  |  |
| GEOLGY 492- Field Studies in Geology  | 3 |  |  |  |  |
| Internship- Internship in any of numerous discplines | 3 |  |  |  |  |
|  |  |  |  |  |  |  |
| Environmental Resource Management |  |  |  |  |  |
|  |  |  |  |  |  |  |
| SAFETY 420- Principles of Environmental Management | 3 | Y |  |  | CHEM 102, 104 |
| SAFETY 453/FNBSLW- Fundamentals of Environmental Law | 3 | Y |  |  | Junior Status |
| SAFETY 489- Hazardous Materials Management | 3 |  |  |  | CHEM 102, 104 |
| SAFETY 493- Air Pollution Evaluation & Control | 3 |  |  |  |   |
| SAFETY/MANGEMNT 496- Sustainable Businesses in the Caribbean | 3 |  |  |  |  |
| FNBSLW 440- Water Law | 3 |   |  |  | FNBSLW 341 |
| ACCOUNT 490- Environmental and Sustainability Accounting | 3 |  |  |  |  |
| ECON 471- Natural Resource and Environmental Economics | 3 | Y |  |  | ECON 201 |
| ENG 260- American Environmental Literature | 3 |  |  |  | ENG 101 or 102 |
| ENG 472- Nature Writing | 3 |  |  |  | ENG 101 or 102 |
| POLSCI 343- U.S. Environmental Politics and Policy | 3 |  |  |  | 3 credits of POLSCI |
| PHILSPHY 248- Environmental Ethics | 3 |   | Y |  |   |
| SOCIOLOGY 321- Sociology of Natural Disasters | 3 |  |  |  | 3 Units of Sociology |
| SOCIOLOGY 319- Introduction to Environmental Sociology | 3 |   |  |  | GENED 130 or 140 or SOC 250 |
| GEOGRAPY 420- Human Climate Interactions | 3 |   |  |  | GEOGRPY 252 or 320 |
| GEOGRAPY 452- Cultural Ecology and Sustainable Development | 3 |  |  |  | GEOGRPY 230 or 252 |
| WMSTUDIES- 481- Gender, Ethnicity, and the Environment | 3 |  | Y |  |  |
| Internship- Internship in any of numerous disciplines | 3 |  |  |  |  |

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| Techniques Options |  |  |
| Geographic Information Systems |  |  |
| Courses | **Credits** | **Unique Requirements** |
| Geogrpy270- Introduction to Mapping | 3 |  |
| Geogrpy370- Geographic Information Systems | 3 | Geogrpy270 |
| Geogrpy470- Applied Environ.& Natural Res. GIS | 3 | Geogrpy370 |
| Analytical Chemistry |  |  |
| Courses | **Credits** | **Unique Requirements** |
| Chem102- Introductory Chemistry | 5 |  |
| Chem104- Introductory Chemistry 2 | 5 | Chem102 |
| Chem352- Quantitative Analysis | 5 | Chem104 |
| Ecological Field and Lab Methods |  |  |
| Courses | **Credits** | **Unique Requirements** |
| Biology142- Introductory Biology 2 | 5 | Biology141 |
| Biology258- Field Experience | 2 | Biology141,142 |
| Any 300-level or higher field-based biology course | 4 |   |
| Environmental Writing |  |  |
| Courses  | **Credits** | **Unique Requirements** |
| English372- Technical and Scientific Writing | 3 |  |
| English 260- American Environmental Literature |  3 | Eng 101 or 101 |
| English472- Nature Writing | 3 | Eng 101 or 102 |