

Degree Core Requirements: (22 credits)

- ____ GEOG 1104 Intro to Physical Geography (3)
- ____ GEOG 1084 (FREC 1004) Digital Planet (3)
- ____ GEOG 1504 Survey of Meteorology (1)
- ____ GEOG 1514 Introduction to Meteorology (3)
- ____ GEOG 2314 Maps & Mapping (3)
- ____ GEOG 2505 Weather Analysis I (3)
- ____ GEOG 2506 Weather Analysis II* (3)
- ____ GEOG 3504 Severe Weather* (3)

Major Requirements:**Meteorology: (12 credits)**

- ____ GEOG 3515 Dynamic Meteorology* (3)
- ____ GEOG 3516 Dynamic Meteorology* (3)
- ____ GEOG 4504 Synoptic Meteorology* (3)
- ____ GEOG 4524 Physical Meteorology* (3)

Mapping and GIS: (13 credits)

- ____ GEOG 2084 Principles of GIS (3)
- ____ GEOG 3314 Cartography (3)
- ____ GEOG 4084 (GEOS 4084) Modeling with GIS* (3)
- ____ GEOG 4354 (GEOS 4354) Intro Remote Sensing (3)
- ____ GEOG 4554 Remote Sensing Atmosphere* (1)

Math and Statistics (min 8 credits)

- ____ MATH 1114 Elementary Linear Algebra (2)
- OR MATH 2114 Introduction to Linear Algebra* (3)
- ____ MATH 2214 Intro to Differential Equations* (3)
- ____ STAT 3604 Statistics for Social Sciences* (3) OR
- STAT 3615: Biological Statistics* (3)

Human Systems: (9 credits)

- ____ GEOG 1004 Intro Human Geography (3)
- ____ GEOG 1014 World Regions (3)

Choose ONE course from below: (3 credits)

- GEOG 1115 (NR 1115) Seeking Sustainability (3)
- GEOG 2004 (WATR 2004) Water, Enviro & Society (3)
- GEOG 2114 Introduction to Coastal Regions (3)
- GEOG 2134 (IS/PSCI 2134) Geography of the Global Economy (3)
- GEOG 2214 Geography of North America (3)
- GEOG 3104 Enviro Problems, Pop, & Development (3)
- GEOG 3224 Geography of Appalachia* (3)
- GEOG 3244 The US City* (3)
- GEOG 4054 Geography of Wine (3)

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- GEOG 4074 Medical Geography* (3)
- GEOG 4414 Climate Change & Societal Impacts (3)
- GEOG 4134 (GEOS 4134) Issues & Ethics in Water Res (3)
- GEOG 4204 Geography of Resources* (3)

Field Experience (must be relevant to major and approved by the Department): (3 credits) Choose ONE:

- MTRG 2964 or 4964 Field Study (3)
- MTRG 3524 Meteorology Field Methods (Field Methods topics may vary) (3)
- MTRG 3954 Study Abroad (3)
- MTRG 4584 Topics in Applied Meteorology (3)
- MTRG 4994 Undergraduate Research (3)

Restricted Electives- Physical Sciences: (9 credits)**Choose THREE courses from below:**

Note: This requirement can also be met by completion of a second major (or minor) in: Astronomy, Chemistry, Computer Science, Geosciences, Geographic Information Science, Math, or Physics.

Students interested in graduate school or NWS/NOAA employment should consider courses in italics:

- CHEM 1015 Chemistry in Context (3)
- CHEM 1016 Chemistry in Context (3)
- CHEM 1035 General Chemistry (3)*
- CHEM 1036 General Chemistry* (3)*
- CS 1014 Intro Computational Thinking (3)
- CS 1044 Introduction to Programming in C (3)
- CS 1064 Intro to Programming in Python (3)*
- CS 1114 Introduction to Software Design (3)
- CS 1124 Introduction to Media Computation (3)
- CS 2114 Software Design & Data Structures* (3)
- MATH 2204 Intro Multivariable Calculus* (3)*
- FREC 3104 Principles of Watershed Hydrology*(3)
- FREC 3604 Climate Science* (3)
- GEOG 1524 Intro Earth's Climate (3)
- GEOG 3274 Polar Environments (3)
- GEOG 3304 (CSES/GEOS 3304) Geomorphology* (3)
- GEOG 3404 Mountain Geography* (3)
- GEOG 4044 Biogeography* (3)
- GEOG 4224 Tracking Environmental Change (3)
- GEOG 4514 Tropical Meteorology* (3)*
- GEOS 1064 Climate History
- GEOS 3034 Oceanography (3)
- GEOS 4804 Groundwater Hydrology (3)
- STAT 3616 Biological Statistics* (3)*

Pathways to General Education Requirements

Concept 1F: Foundational Discourse (6 credits)

_____ ENGL 1105 or COMM 1015
_____ ENGL 1106* or COMM 1016*

Concept 1A: Advance/Applied Discourse (3 credits)

_____ Concept 1a course _____

Concept 2: Critical Thinking in the Humanities (6 credits)

_____ Concept 2 course (3) _____
_____ Concept 2 course (3) _____

Concept 3: Society and Human Behavior (6 credits)

The meteorology major covers this area with completion of GEOG 1004 and 1014

Concept 4: Scientific Reasoning and Discovery (8 credits)

_____ PHYS 2205/2215 General Physics (4) **OR** _____ PHYS 2305 Foundations of Physics (4)
_____ PHYS 2206/2216 General Physics* (4) _____ PHYS 2306 Foundations of Physics* (4)

Concept 5F: Foundational Quantitative and Computational Thinking (8 credits)

_____ MATH 1225 Calculus of a single variable (4)
_____ MATH 1226 Calculus of a single variable* (4)

Concept 5A: Advance/Applied Quantitative and Computational Thinking (3 credits)

_____ STAT 3604 Statistics for Social Science* **OR** STAT 3615 Biological Statistics*

Concept 6: Critique and Practice in Design (D) and the Arts (A) (6 credits)

_____ GEOG 3314 Cartography (3) (6d)
_____ Approved course (3) (6a) _____

Concept 7: Critical Analysis of Identity and Equity in the US (3 credits) †

_____ Approved course (3) _____

†Completed courses in another area, co-listed with Pathways Concept 7, will satisfy the Concept 7 requirement.

Free Electives: 9 credits (additional credit hours to total 120).

Meteorology Notes:

- 1) **Prerequisites or enrollment restrictions** may apply to some courses. Consult the Undergraduate Catalog, Timetable of Classes, or your advisor.
- 2) **Satisfactory Progress:** Required minimum hours in the major is 76. Minimum number of hours for the degree is 120. By the end of the semester in which the student has attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" towards a B.S. degree in the College of Natural Resources and Environment will include the following minimum criteria: having an in-major and overall grade point average of at least 2.0 and passing at least 24 semester credits that apply to the Pathways to General Education, and students must have completed 15 hours in Geography/Meteorology.
- 3) **In-major GPA Computation:** Includes all courses designated as GEOG/MTRG, an in-major and overall GPA average of 2.0 is required for graduation.
- 4) **Foreign Language Requirement:** A sequence of two (2) foreign language courses is required for graduation unless two (2) high school units of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on "Graduation Requirements".
- 5) **Geography Double Major:** Meteorology students planning to double major in Geography must complete **15 additional credits:** at least 12 hours of GEOG course work that is not being used to complete either major; and **two distinct** (3 credits each) field experiences that apply to each major.
- 6) **Pathways General Education:** Courses used to satisfy Pathways General Education requirements **cannot** be double counted to also satisfy degree core requirements. However, Pathways courses may be double counted to satisfy other program area credit hour requirements.

*NOTE: Some of the listed courses have prerequisites and/or enrollment restrictions. Some courses must be taken in sequence to satisfy prerequisites. Be sure to consult with the University Catalog, Timetable of Classes, or check with your advisor.