

# B.S. in Geosciences

## Area A:

- Required course:
- [MATH 1113](#) Precalculus (3) or higher level MATH course. Recommended: Section of [MATH 1113](#) specifically for Geosciences majors.

## Area D:

- Required course: [MATH 2201](#) Calculus for Life Sciences I (4) or [MATH 2211](#) Calculus of One Variable I (4) or a higher-level mathematics course.
- Recommended courses:
  - [GEOL 1121K](#) Introductory Geology I (4) and
  - [GEOL 1122K](#) Introductory Geology II (4)

## Area E:

- Recommended course: [GEOG 1101](#) Introduction to Human Geography (3)

## Area F: Courses Appropriate to the Major (18)

1. Required Courses (if not taken in Area D) (11):
  - [GEOL 1121K](#) Introductory Geology I (4)
  - [GEOL 1122K](#) Introductory Geology II (4)
  - [MATH 1401](#) Elementary Statistics (3)
2. Complete one of the following science sequences. Students in the Geology concentration are strongly advised to complete the chemistry sequence. Students in the Environmental Geosciences concentration are strongly advised to complete either the geography, biology, or chemistry sequence depending on their interests. Students in the Geography or Urban Studies concentrations are strongly advised to complete the geography sequence. (8)
  - [BIOL 1103K](#) Introductory Biology I (4) and [BIOL 1104K](#) Introductory Biology II (4)
  - [CHEM 1211K](#) Principles of Chemistry I (4) and [CHEM 1212K](#) Principles of Chemistry II (4)
  - [GEOG 1112K](#) Weather and Climate (4) and [GEOG 1113K](#) Introduction to Landforms (4)

3. Select additional elective courses from the following to complete 18 hours in Area F. Students in the Geology concentration are recommended to take a physics sequence and an additional calculus course if possible. Students in the Environmental Geosciences, Geography, or Urban Studies concentrations are recommended to take either the biology, chemistry, or computer science sequence depending on their interests.
- [CHEM 1211K](#) Principles of Chemistry I (4)
  - [CHEM 1212K](#) Principles of Chemistry II (4)
  - [CHEM 2400](#) Organic Chemistry I (3)
  - [CHEM 2410](#) Organic Chemistry I (3)
  - [CHEM 2400L](#) and [CHEM 2410L](#) or [CHEM 2100](#) Organic Chemistry Lab I and II (2)\*
  - [GEOG 1112K](#) Weather and Climate (4)
  - [GEOG 1113K](#) Introduction to Landforms (4)
  - [PHYS 1111K](#) Introductory Physics I (4)
  - [PHYS 1112K](#) Introductory Physics II (4)
  - [PHYS 2211K](#) Principles of Physics I (4)
  - [PHYS 2212K](#) Principles of Physics II (4)
  - [BIOL 1103K](#) Introductory Biology I (4)
  - [BIOL 1104K](#) Introductory Biology II (4)
  - [MATH 2202](#) Calculus for the Life Sciences II (4) or [MATH 2212](#) Calculus of One Variable II (4)
  - [MATH 2215](#) Multivariate Calculus (4)
  - [CSC 1301](#) Principles of Computer Science I (4)
  - [CSC 1302](#) Principles of Computer Science II (4)
  - [RSCH 1203](#) Research Strategies and Technology (1)
- All courses above ending in K are commonly offered as separate lecture and lab (L) courses by GSU's Perimeter College. The combined (K) courses and separate lecture and lab (L) courses cover the same subject matter and are considered equivalent courses (but both lecture and lab sections must be completed with a passing grade). **Beginning Fall 2019, the downtown Biology department will also offer [BIOL 2107/BIOL 2107L](#) and [BIOL 2108/BIOL 2108L](#) as separate courses.**
  - Any credit hours exceeding 18 earned to complete the Area F requirements will count toward elective hours.