

# Geology (BS) (17GEOLBS)

## Freshman Year

Fall Semester	Credit	Spring Semester	Credit
MEA 100 Earth System Science <sup>2,G,J</sup>	4	CH 101 Chem Molecular Science <sup>1,B</sup>	3 CP
MA 141 (or MA 131) Calculus I <sup>1,A</sup>	3-4 CP	CH 102 General Chem Lab <sup>3,B</sup>	1
MEA 101 Geology I: Physical <sup>2,5</sup>	3 CP	ENG 101 Acad Writing and Research <sup>1,H</sup>	4
MEA 110 Geology I Lab <sup>2</sup>	1 CP	MA 241 (or MA 231) Calculus II <sup>1,A</sup>	3-4
HES_*** Health & Exercise Studies Course <sup>E</sup>	1	MEA 202 Geology II: Historical <sup>2</sup>	3
COS 100 Science of Change <sup>4,G</sup>	2	MEA 211 Geology II Lab <sup>2</sup>	1
	14-15		15-16

## Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
Math/Science Option <sup>3,6</sup>	3	Computer Science Option <sup>7</sup>	3
MEA 410 Intro to Mineralogy and Petrology <sup>2</sup>	4 CP	MEA 450 Sed. Petrol. & Strat. <sup>2</sup>	4
Physics I (PY 205/206 or PY 211) <sup>1</sup>	4	Physics II (PY 208/209 or PY 212) <sup>3</sup>	4
CH 201 Chem Quant Science <sup>3,B</sup>	3	GEP Social Sciences Requirement <sup>D</sup>	3
CH 202 General Quant Lab <sup>3</sup>	1		
	15		14

## Junior Year

Fall Semester	Credit	Spring Semester	Credit
Math/Science Option <sup>3,6</sup>	3	Advanced Writing Elective <sup>9</sup>	3
MEA 451 Structural Geology <sup>2</sup>	4	Advised Elective <sup>2,10</sup>	3
Restricted Earth Science Elective <sup>2,8</sup>	3	COM 110 Public Speaking	3
Free Elective <sup>13</sup>	3	MEA 495 Junior Seminar in MEAS <sup>2</sup>	1
		Surface Processes Elective <sup>2,11</sup>	3
		GEP Social Sciences Requirement <sup>D</sup>	3
	13		16

## Summer

Summer Semester	Credit
MEA 465 Geologic Field Camp <sup>2</sup>	4

## Senior Year

Fall Semester	Credit	Spring Semester	Credit
Applied Earth Science Elective <sup>2,12</sup>	3	Advised Elective <sup>2,10</sup>	3
Advised Elective <sup>2,10</sup>	4	Advised Elective <sup>2,10</sup>	3
GEP Humanities Req. <sup>C</sup>	3	Restricted Earth Science Elective <sup>2,8</sup>	3
GEP Additional Breadth Req. <sup>F</sup>	3	GEP Humanities Requirement <sup>C</sup>	3
HES_*** Health & Exercise Studies Course <sup>E</sup>	1	Free Elective <sup>13</sup>	3
	14		15

Minimum Credit Hours Required for Graduation\*:

120

## Major/Program Footnotes

1. A grade of a C- or higher is required in ENG 101; CH 101; MA 131, 141, 231, 241; PY 205, 211. 2. No more than one D will be allowed in other math and natural science courses. 3. No more than one D will be allowed in MEA courses and Restricted and Advised Electives. 4. COS 100 is for new freshman only. Transfer students will need to select a course from the GEP Interdisciplinary Perspectives course list. 5. Transfer students who have completed MEA 120, MEA 140, MEA 150 or MEA 200 can use those credits in lieu of MEA 101. All students must complete MEA 110. 6. Math/Science Option to be selected from BIO 181, 183; CH 220, 221, 222; MA 242; MAE 301; or any 300-level or higher course in BIO, CH, MA, PY, or ST. 7. One of the following GIS 410, MA 116, CSC 112, CSC 114, CSC 116, or CSC 200. GIS 410 or MA 116 is recommended for most students. 8. Restricted Earth Science Electives to be chosen from MEA 300, MEA 323, MEA 411, MEA 440, MEA 459, MEA 470, MEA 471, MEA 481, or MEA 485. 9. Advanced Writing Elective must be selected from ENG 331, ENG 332, and ENG 333. The Advanced Writing Elective satisfies the Communication in the Major Co-Requisite. 10. Advised electives are in the geosciences and related fields and are to be selected with the advice and consent of the advisor to meet the student's career objective. 11. Surface Processes Electives to be chosen from MEA 411, MEA 459, and MEA 481. 12. Applied Earth Science Elective to be chosen from MEA 323, MEA 485, or MEA 471. 13. Free electives may not be MA 100, MA 101, MA 103, MA 107, MA 108, or MA 111. \* **General Education Program (GEP) requirements and GEP Footnotes**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at <http://oucc.dasa.ncsu.edu/general-education-program/>. **A.**

**A. Mathematical Sciences** (6 credit hours; one course with MA or ST prefix) *Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA 131, MA 141, MA 231, or MA 241* **B. Natural Sciences** (7 credit hours; include one laboratory course or course with a lab) *Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: CH 101, CH 102, CH 201* **C. Humanities** (6 credit hours selected from two different disciplines/course prefixes) *Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: none* **D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes) *Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: none* **E. Health & Exercise Studies** (2 credit hours; at least one 100-level Fitness and Wellness Course) *Choose from the University approved GEP Health & Exercise Studies course list.* **F. Additional Breadth** (3 credit hours to be selected from the following checked University approved GEP course lists) **X Humanities/Social Sciences/Visual and Performing Arts** **G. Interdisciplinary Perspectives** (5-6 credit hours) *Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MEA 100* **H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better) The following **Co-Requisites** must be satisfied to complete the General Education Program requirements **I. U.S. Diversity (USD)** *Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: none* **J. Global Knowledge (GK)** *Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: none* **K. Foreign Language proficiency** Proficiency at the FL\_102 level is required for graduation.