



Earth and Environmental Sciences, B.S.

Core IMPACTS Curriculum	HRS	GR
Core IMPACTS Area I - Institutional Priorities	4-5	
1. Written and Oral Communication One of the following is required of all majors. Choose from the following: ART 2000, ANTH 110, COMM 1100, COMM 1110, ENGL 2000, ENGL 2050 (or) THEA 2050, PHIL 2020, or any international language 1001, 1002	3	
2. Other Institutional Options ANTH 1100, BUSA 1900, CS 1000, LIBR 2100, MUSC 1110, XIDS 2001, XIDS 2002	1-2	
Core IMPACTS Area M - Mathematics and Quantitative Skills	3	
MATH 1113 (Precalculus)	3-4	
Core IMPACTS Area P - Political Science and U.S. History (Citizenship)	6	
1. American / United States History HIST 2111 or 2112	3	
2. American / Georgia Government POLS 1101	3	
Core IMPACTS Area A - Arts, Humanities & Ethics (Humanities)	6	
1. Fine Arts XIDS 2100, ART 1201, ART 2201, ART 2202, FILM 2080, MUSC 1100, MUSC 1120, THEA 1100	3	
2. Humanities XIDS 2100, COMM 1154, ENGL 2110, ENGL 2120, ENGL 2130, ENGL 2180, ENGL 2190, FREN 1001, GRMN 1001, SPAN 1001, FREN 1002, GRMN 1002, SPAN 1002, FREN 2001, GRMN 2001, SPAN 2001, FREN 2002, GRMN 2002, SPAN 2002, FORL 2200, FORL 2300, PHIL 2010, PHIL 2030	3	
Core IMPACTS Area C - Communicating in Writing	6	
ENGL 1101 (English Composition I)	3	
ENGL 1102 (English Composition II)	3	
Core IMPACTS Area T - Technology, Mathematics, and Sciences (STEM)	10-11	
1. Science Courses ANTH 1105, ASTR 2313(L), BIOL 1010(K)(L), BIOL 1012, BIOL 1013, BIOL 1014, BIOL 1015, BIOL 1107(L), BIOL 1108(L), CHEM 1100(L), CHEM 1151(L), CHEM 1152(L), CHEM 1211(K)(L), CHEM 1212(K)(L), CHEM 1230K, GEOG 1111, GEOG 1112(L), GEOG 1113(L), GEOG 2202(L), GEOG 2553, GEOL 1121(L), GEOL 1122(L), GEOL 1123(L), GEOL 2503, GEOL 2523, GEOL 2553, PHYS 1111(L), PHYS 1112(L), PHYS 2211(L), PHYS 2212(L), XIDS 2202	7-8	
2. Mathematics, Science, and Quantitative Technology Courses CS 1030, CS 1300, DATA 1501, MATH 1401, MATH 1413, MATH 1634, MATH 2644	3-4	
Core IMPACTS Area S - Social Sciences	6	
1. World History HIST 1111 or 1112	3	
2. Social Science Elective Courses ANTH 1004, ANTH 1102, CRIM 1100, ECON 2100, ECON 2105, ECON 2106, GEOG 1013, GEOG 2503, PHIL 2130, POLS 2201, PSYC 1101, SOCI 1101, SOCI 1160, XIDS 2300, XIDS 2301	3	

Field of Study	HRS	GR
GEOL 1121/1121L (Exploring Earth)	4	
GEOG 1112/1112L (Weather and Climate)	4	
GEOG 2553 (Introduction to GIS and Mapping Sciences)	3	
Choose between GEOG or GEOL options: GEOG 1113/1113L (Landform Geography) or GEOL 1122/1122L (Earth and Life Through Time)	4	
Choose either MATH: MATH 1401 (Elementary Statistics) or MATH 1634 (Calculus I) If needed, MATH credit from Core IMPACTS Area M and Core IMPACTS Area T and/or 1000/2000 level academic elective in GEOG, GEOL, CHEM, BIOL, PHYS, CS	3 or 4	

Major Course Options	HRS	GR
Environmental Sustainability Concentration		
Required lower level courses: GEOG 1013 or GEOG 2202/2202L or GEOG 2333/GEOL 2333	2-6	
Required upper level courses: GEOL 3603, GEOG 3333/GEOL 3333, GEOG 3405, GEOL 4093, GEOG 4333/GEOL 4333, GEOG 4700	15-17	
Choose two foundational upper level courses: GEOG 3713, GEOG 3800, GEOG 3900, GEOL 4003, GEOL 4084, GEOG 4103, GEOG 4600, or GEOG 4900	6-8	
Choose one techniques/skills upper level course: GEOL 3004, GEOG 3563, GEOG 4553, or GEOG 4086	3-4	
Choose one transdisciplinary upper level course: GEOL 3014, GEOG 3020, GEOG 3253, GEOG 3643, GEOG 3644, GEOL 4024, GEOL 4083, or GEOL 4604	3-4	
Additional upper level electives	6-12	
Professional Geology Concentration		
Required lower level courses: GEOL 1122/1122L or CHEM 1211/1211L or GEOG 2333/GEOL 2333	2-10	
Required upper level courses: GEOL 3004, GEOL 3014, GEOL 3024, GEOG 3333/GEOL 3333, GEOL 3034, GEOL 4024, GEOL 4034, GEOL 4084, GEOG 4333/GEOL 4333, or GEOL 4604	35-37	
Additional upper level electives	2-4	
Geographic Information Science Concentration		
Required lower level courses: GEOG 1013, GEOG 2202/2202L, or GEOG 2333/GEOL 2333	2-6	
Required upper level courses: GEOG 3333/GEOL 3333, GEOG 3563, GEOG 4333/GEOL 4333, GEOG 4553, or GEOG 4554	15-17	
Choose two specialized upper level courses: GEOG 4562, GEOG 4564, GEOG 4753, GEOG 4755, GEOG 4757, or GEOG 4893	8	
Additional upper level electives	10-12	
Total	120	