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| **BACHELOR OF SCIENCE IN GEOSCIENCE WITH AN EMPHASIS IN ENVIRONMENTAL GEOSCIENCE**  |  |  |  |  |  |  |
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| **REQUIRED CORE COURSES:** |  |  |  |  |  |  |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
| GEO 1110 | INTRO TO EARTH SYSTEMS | 3 | N/A | FALL/SPRING |  |  |  |  |  |  |  |
| GEO 1115 | INTRO TO EARTH SYSTEMS LAB | 1 | N/A | FALL/SPRING |  |  |  |  |  |  |  |
| GEO 3010 | GEOPHYSICS (QI) | 3 | MATH 1220, GEO 3080, PHYS 2220 | SPRING |  |  |  |  |  |  |  |
| GEO 3060 | STRUCTURAL GEOLOGY AND TECTONICS | 3 | GEO 1110, MATH 1060 | FALL/SPRING |  |  |  |  |  |  |  |
| GEO 3080 | EARTH MATERIALS I (QI) | 4 | CHEM 1210 | FALL/SPRING |  |  |  |  |  |  |  |
| GEO 3090 | EARTH MATERIALS II | 3 | GEO 1110, 3080, MATH 1210 | FALL/SPRING |  |  |  |  |  |  |  |
| GEO 4500 | FIELD METHODS (CW) | 3 | GEO 1110, 3060, 3080, 3090, 5760 | SPRING |  |  |  |  |  |  |  |
| GEO 4510GEO 4520 | FIELD GEOLOGY (1st half)FIELD GEOLOGY (2nd half) | 22 | GEO 4500GEO 4500 & 4510 | SUMMER |  |  |  |  |  |  |  |
| GEO 5760 | STRATIGRAPHY AND SEDIMENTARY PROCESSES | 4 | GEO 3090, 3060 | FALL |  |  |  |  |  |  |  |
| **REQUIRED COURSES: 12 CREDITS AMONG THE FOLLOWING 3 AREAS, WITH AT LEAST 3 CREDITS IN EACH AREA** |  |  |  |  |  |  |
| **BIOSPHERE** |  |  |  |  |  |  |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
| GEO 3180 | PALEOBIOLOGY | 3 | GEO 1110 | SPRING |  |  |  |  |  |  |  |
| ENVST 2050 | Intro to Environmental and Sustainability Science | 4 | N/A | FALL/SPRING |  |  |  |  |  |  |  |
| BIOL 1210 | PRINCIPLES OF BIOLOGY | 4 | N/A | ALL |  |  |  |  |  |  |  |
| BIOL 2010 | EVOLUTION & DIVERSITY OF LIFE | 3 | BIOL 1210 | FALL/SPRING |  |  |  |  |  |  |  |
| BIOL 2020 | PRINCIPLES OF CELL BIOLOGY | 3 | BIOL 1210 & CHEM 1210 | FALL/SPRING |  |  |  |  |  |  |  |
| BIOL 3410 | ECOLOGY AND EVOLUTION | 3 | BIOL 1210 & MATH 1210 | SPRING |  |  |  |  |  |  |  |
| **HYDROSPHERE** |  |  |  |  |  |  |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
| GEO 3300 | THE WATER PLANET | 3 | N/A | SPRING |  |  |  |  |  |  |  |
| GEO 3800 | THE OCEANS | 3 | GEO 1010 or 1110 | FALL |  |  |  |  |  |  |  |
| GEO 5350 | GROUNDWATER | 3 | MATH 1220 & GEO 1110 | FALL |  |  |  |  |  |  |  |
| GEO 5370 | CONTAMINANT PARTITIONING FOR ENGINEERS AND SCIENTISTS | 3 | CHEM 1210, 1220 | FALL EVEN YEARS |  |  |  |  |  |  |  |
| GEO 5390 | SOLUTE TRANSPORT AND SUBSURFACE REMEDIATION | 3 | GEO 3080, 3090, 5350,  | SPRING |  |  |  |  |  |  |  |
| **ATMOSPHERE** |  |  |  |  |  |  |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
| ATMOS 3200 | MOUNTAIN WEATHER AND CLIMATE | 3 | N/A | SPRING EVEN YEARS |  |  |  |  |  |  |  |
| ATMOS 3100 | ATMOSPHERIC CHEMISTRY AND AIR POLLUTION | 3 | CHEM 1210 & MATH 1220 | SPRING ODD YEARS |  |  |  |  |  |  |  |
| ATMOS 5400 | THE CLIMATE SYSTEM | 3 | MATH 1050 | FALL |  |  |  |  |  |  |  |
| GEOG 3210 | GLOBAL CLIMATE CHANGE | 3 | N/A | SPRING |  |  |  |  |  |  |  |
| **ALLIED SCIENCES COMPLETE 9 COURSES** |  |  |  |  |  |  |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
| CHEM 1210 | GENERAL CHEMISTRY I | 4 | CHEM 1200 OR MATH 1050, 1080, 1210, 1220, 1250, 1260, 1310, 1320 | ALL |  |  |  |  |  |  |  |
| CHEM 1215 | GENERAL CHEMISTRY I LAB | 1 | CHEM 1210 OR 1211 | ALL |  |  |  |  |  |  |  |
| CHEM 1220 | GENERAL CHEMISTRY II | 4 | CHEM 1210 OR 1211 | ALL |  |  |  |  |  |  |  |
| CHEM 1225 | GENERAL CHEMISTRY II LAB | 1 | CHEM 1070 OR 1215, 1240 | ALL |  |  |  |  |  |  |  |
| MATH 1210 | CALCULUS I | 4 | MATH 1050 & 1060 OR MATH 1080 | ALL |  |  |  |  |  |  |  |
| MATH 1220 | CALCULUS II | 4 | MATH 1210 OR 1250, 1270, 1311, 1310 | ALL |  |  |  |  |  |  |  |
| METE 3070 OR MATH 3070  | STATISTICAL METHODS IN EARTH SCIENCES AN ENGINEERING (3) OR APPLIED STATISTICS (4)  |  3 OR 4 | MATH 1220 OR 1250, 1270, 1311, 1320 | FALLORALL |  |  |  |  |  |  |  |
| PHYS 2210 | PHYSICS FOR SCIENTISTS AND ENGINEERS I | 4 | MATH 1210 | ALL |  |  |  |  |  |  |  |
| PHYS 2220 | PHYSICS FOR SCIENTISTS AND ENGINEERS II | 4 | PHYS 2210 AND MATH 1220 | ALL |  |  |  |  |  |  |  |
| **COMPLETE 12 DEGREE PROGRAM ELECTIVE CREDIT HOURS: ANY UPPER DIVISION COURSE IN THE COLLEGE OF MINES AND EARTH SCIENCES, SCIENCE, OR ENGINEERING, OR OTHER UPPER DIVISION BY APPROVAL** |
| Course | Title | Credits | Prerequisites | Offered | Taking When |  |  |  |  |  |  |
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| ***Note: An additional 7 credits of electives must be completed to reach the university’s minimum 122 credit requirement for a Bachelor’s degree.*****Academic Advisor**Michelle Tuitupoumichelle.tuitupou@utah.edu801-581-6553383 FASB | **Faculty Advisor**Prof. Brenda Bowenbrenda.bowen@utah.edu801-585-5326251 FASB |  |  |  |  |  |  |  |  |
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