

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

| <b>First Year – 34-35 Hours</b>  |            |   |            |
|--|------------|---|------------|
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| Approved Introductory Geology Course* (Natural Science)  | 4          | STEM 1030: <i>Step One/Two: Inquiry-Based Math and Science Teaching</i>   | 2          |
| CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)  | 4          | CHEM 1120/1120L: <i>General Chemistry II/Lab</i>  | 4          |
| MATH 1730: <i>Combined Precalculus</i> or MATH 1950: <i>Calculus w/ Analytic Geometry</i> (Quantitative Reasoning)   | 4          | GEOL 1120/1120L: <i>Historical Geology/Lab</i>  | 4          |
| Writing and Communication (ENGL 1010 or 1011)  | 3-4        | MATH 2100: <i>Introductory Statistics</i> (Quantitative Reasoning)  | 3          |
| Behavioral and Social Science  | 3          | Writing and Communication (ENGL 1020)   | 3          |
|  | 18-19      |   | 16         |
| <b>Second Year – 34-37 Hours</b>   |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| STEM 2010: <i>Knowing and Learning</i>   | 3          | STEM 2020: <i>Classroom Interactions</i>  | 3          |
| BIOL 1110/1110L: <i>Principles of Biology I/Lab</i> , PHYS 1030/1030L: <i>General Physics - Mechanics and Heat/Lab</i> , or PHYS 2300/2300L: <i>Principles of Physics - Mechanics and Heat/Lab</i> | 4          | BIOL 1120/1120L: <i>Principles of Biology II/Lab</i> , PHYS 1040/1040L: <i>General Physics - Electromagnetism and Optics/Lab</i> , or PHYS 2310/2310L: <i>Principles of Physics - Electricity and Magnetism/Lab</i> | 4          |
| GEOL 2100/2100L: <i>Introductory Geographic Information Systems and Remote Sensing/Lab</i>   | 4          | GEOL 2200: <i>Global Climate Change: Past, Present, and Future</i>  | 3          |
| GEOL 3410/3410L: <i>Mineralogy/Lab</i>   | 4          | Humanities and Fine Arts  | 3-4        |
| Humanities and Fine Arts   | 3-4        | Individual and Global Citizenship   | 3-4        |
|  | 18-19      |   | 16-18      |
| <b>Third Year – 34-36 Hours</b>  |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| STEM 3010: <i>Perspectives on Science and Mathematics</i>  | 3          | STEM 3020: <i>Research Methods in Science</i>   | 3          |
| GEOL 2250: <i>Oceanography</i>   | 3          | ASTR 1010/1010L: <i>Introduction to Astronomy - The Solar System/Lab</i>  | 4          |
| GEOL 4510/4510L: <i>Structural Geology/Lab</i>   | 4          | GEOL 3540/3540L: <i>Sedimentology and Stratigraphy/Lab</i>  | 4          |
| Humanities and Fine Arts   | 3-4        | GEOL 4080: <i>Earth Surface Processes</i>   | 4          |
| Humanities and Fine Arts   | 3-4        | Behavioral and Social Science   | 3          |
|  | 16-18      |   | 18         |
| <b>Fourth Year – 25 Hours</b>  |            |   |            |
| <b>Fall Semester:</b>  | <b>Hrs</b> | <b>Spring Semester:</b>   | <b>Hrs</b> |
| STEM 4010: <i>Project-Based Instruction</i>  | 3          | STEM 4020r: <i>Apprentice Teaching**</i>  | 12         |
| EDUC 4170: <i>Technology and Learning</i>  | 3          |   |            |
| GEOL 3070: <i>Geology of Tennessee</i>   | 3          |   |            |
| GEOL Senior Research Experience (4000 Level)   | 4          |   |            |
|  | 13         |   | 12         |

\*GEOL 1025, 1030, or 1110 with GEOL 1110L or GEOL 1040 with GEOL 1105L

\*\*Includes EDUC 4420: *Professional Seminar* requirement

| <b>Completed:</b>                         |            |  |            |
|---|------------|--|------------|
| <b>Graduation Requirements:</b>           | <b>Hrs</b> | <b>Degree Requirements:</b>              | <b>Hrs</b> |
| 127 Total Hours                           |            | 27-33 General Education Hours            |            |
| 39 Upper Division (3000-4000 Level) Hours |            | 104 Program (Major) Hours                |            |
| 30 Hours at UTC                           |            | Minor ( <i>Not Required</i> )            |            |
| 45 Hours at 4-year Institution            |            | Elective Hours ( <i>Not Required</i> )   |            |
|   |            | Foreign Language ( <i>Not Required</i> ) |            |