

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

| <b>First Year – 31-32 Hours</b>                                                                                                                                                        |            |                                                                                                                                                                                                           |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Fall Semester:</b>                                                                                                                                                                  | <b>Hrs</b> | <b>Spring Semester:</b>                                                                                                                                                                                   | <b>Hrs</b> |
| GEOL 1110/1110L: <i>Physical Geology/Lab</i> (Nat. Science)                                                                                                                            | 4          | GEOL 1120/1120L: <i>Historical Geology/Lab</i> (Nat. Science)                                                                                                                                             | 4          |
| CHEM 1110/1110L: <i>General Chemistry I/Lab</i>                                                                                                                                        | 4          | CHEM 1120/1120L: <i>General Chemistry II/Lab</i>                                                                                                                                                          | 4          |
| MATH 1950: <i>Calculus w Analytic Geometry I</i> (Math)                                                                                                                                | 4          | MATH 2100: <i>Introductory Statistics</i> (Statistics)                                                                                                                                                    | 3          |
| ENGL 1010 or 1011 (Rhetoric and Writing I)                                                                                                                                             | 3-4        | ENGL 1020 or HIST 2000 (Rhetoric and Writing II)                                                                                                                                                          | 3          |
| STEM 1030: <i>Step One/Two: Inquiry-Based Math &amp; Science Teaching</i>                                                                                                              | 2          |                                                                                                                                                                                                           |            |
|                                                                                                                                                                                        | 17-18      |                                                                                                                                                                                                           | 14         |
| <b>Second Year – 31 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          |
| GEOL 3410/3410L: <i>Mineralogy/Lab</i>                                                                                                                                                 | 4          | GEOL 3420/3420L: <i>Petrology/Lab</i>                                                                                                                                                                     | 4          |
| PHYS 1030/1030L: <i>Gen Physics-Mechanics &amp; Heat/Lab</i> ,<br>2300/2300L: <i>Princ of Physics-Mechanics &amp; Heat/Lab</i> , or BIOL<br>1110/1110L: <i>Principles of Bio I/Lab</i> | 4          | PHYS 1040/1040L: <i>Gen Physics-Electromagnetism &amp; Optics /Lab</i> ,<br>2310/2310L: <i>Princ of Physics-Electricity &amp; Magnetism /Lab</i> , or BIOL<br>1120/1120L: <i>Principles of Bio II/Lab</i> | 4          |
| FAH: Historical Understanding                                                                                                                                                          | 3          | FAH: Thought, Values and Beliefs                                                                                                                                                                          | 3          |
| FAH: Literature                                                                                                                                                                        | 3          |                                                                                                                                                                                                           |            |
|                                                                                                                                                                                        | 17         |                                                                                                                                                                                                           | 14         |
| <b>Third Year – 30 Hours</b>                                                                                                                                                           |            |                                                                                                                                                                                                           |            |
| <b>Fall Semester:</b>                                                                                                                                                                  | <b>Hrs</b> | <b>Spring Semester:</b>                                                                                                                                                                                   | <b>Hrs</b> |
| STEM 3010: <i>Perspectives on Science &amp; Math</i>                                                                                                                                   | 3          | STEM 3020: <i>Research Methods in Science</i>                                                                                                                                                             | 3          |
| GEOL 2250: <i>Oceanography</i>                                                                                                                                                         | 3          | GEOL 3540/3540L: <i>Sedimentary Rocks &amp; Stratigraphy/Lab</i>                                                                                                                                          | 4          |
| GEOL 4510/4510L: <i>Structural Geology/Lab</i>                                                                                                                                         | 4          | ASTR 1010/1010L: <i>Intro to Astronomy-The Solar System/Lab</i>                                                                                                                                           | 4          |
| FAH: Visual and Performing Arts                                                                                                                                                        | 3          | Behavioral and Social Science                                                                                                                                                                             | 3          |
| Behavioral and Social Science                                                                                                                                                          | 3          |                                                                                                                                                                                                           |            |
|                                                                                                                                                                                        | 16         |                                                                                                                                                                                                           | 14         |
| <b>Fourth Year – 26-36 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 4020: <i>Apprentice Teaching</i>                                                                                                                                                                     | 6-12       |
| GEOL Senior Experience                                                                                                                                                                 | 1-3        | GEOL Senior Experience                                                                                                                                                                                    | 1-3        |
| GEOL 3070: <i>Geology of Tennessee</i>                                                                                                                                                 | 3          | GEOL Elective                                                                                                                                                                                             | 3          |
| GEOL Elective (3000-4000 Level)                                                                                                                                                        | 3          | Non-Western Culture                                                                                                                                                                                       | 3          |
| EDUC 4170: <i>Technology &amp; Learning</i>                                                                                                                                            | 3          |                                                                                                                                                                                                           |            |
|                                                                                                                                                                                        | 13-15      |                                                                                                                                                                                                           | 13-21      |

| <b>Completed:</b>                   |            |                                          |            |
|-------------------------------------|------------|------------------------------------------|------------|
| <b>Graduation Requirements:</b>     | <b>Hrs</b> | <b>Degree Requirements:</b>              | <b>Hrs</b> |
| 120 Total Hours                     |            | 27-28 General Education Hours            |            |
| 39 Upper Division (3000-4000) Hours |            | 94-106 Program (Major) Hours             |            |
| 30 Hours at UTC                     |            | Minor ( <i>Not Required</i> )            |            |
| 60 Hours at 4-year Institution      |            | Elective Hours ( <i>Not Required</i> )   |            |
|                                     |            | Foreign Language ( <i>Not Required</i> ) |            |