

Tennessee Technological University
 Additional Endorsement Program
 Secondary Science Education (Grades 7-12)
 Earth Science - Endorsement Code 418

General Core

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|-------------------|---|---|-------|
| SEED 4123 Or 5123 | Materials & Methods of Teaching Science | 3 | _____ |
| FOED 3820 | Field Experience in Education | 1 | _____ |
| | Or CUED 6800 Field Experience | | |

General / Physical Science Core

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|---|--------------------------------------|------|-------|
| Science Sequence (Biology or Chemistry or Physics or Geology) | | 8-12 | _____ |
| Two courses, one in each of the areas not taken as a sequence | | 6-8 | _____ |
| | BIOL 1310 Concepts of Biology | | |
| | Or BIOL 1010 Intro to Biology I | | |
| | CHEM 1310 Concepts of Chemistry | | |
| | Or CHEM 1110 General Chemistry I | | |
| | PHYS 1030 Concepts of Physics | | |
| | Or PHYS 2010 Algebra-based Physics I | | |
| | Or PHYS 2110 General Physics I | | |

Science Specialization - Earth Science

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|---|---|---|-------|
| GEOL 1040 | The Dynamic Earth | 4 | _____ |
| GEOL 1045 | Earth Environment, Resources, and Society | 4 | _____ |
| ASTR 1010 or 1020 | Intro to Modern Astronomy | 4 | _____ |
| MATH 1830 | Concepts of Calculus | 3 | _____ |
| Upper Division Electives: Choose 2 of the following | | 6 | _____ |
| | GEOL 3410 Paleontology | | |
| | GEOL 3830 Field Geology | | |
| | GEOL 4150 Geomorphology | | |
| | GEOL 4410 Remote Sensing | | |
| | GEOL 4710 Hydrogeology | | |