STEM (Science, Technology, Engineering, Math)

Energy, Earth, & Environment

The Energy, Earth, & Environment pathway equips students with skills, character traits, and knowledge to be successful in an ever-changing professional environment. Students will learn through project-based activities, participate in related capstone experiences, explore energy, earth, & environment fields, and develop 21st century durable skills.
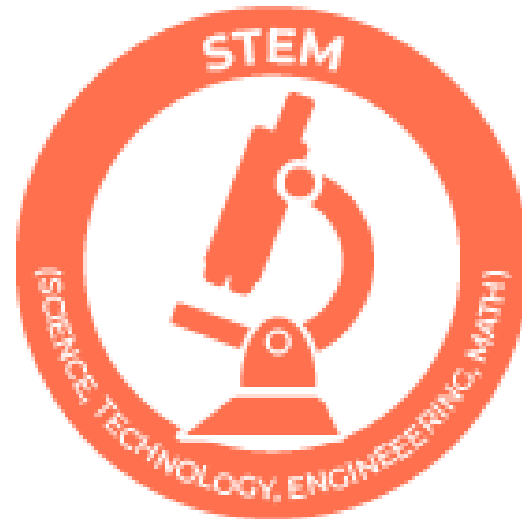
Energy, Earth, & Environment Pathway Credit Checklist: 1.0 foundations credit, 2.5 skills credits, & 1.0 capstone experience credit

Potential Majors

- Ag Engineering Technology
- Agriculture
- Biology
- Chemistry
- Conservation
- Earth Science
- Environmental Studies
- Geology
- Plant/Soil Science
- Sustainability

Related Careers

- Arborist
- Biologist
- Chemist
- Conservation Agent
- Conservationist
- Environmental Scientist
- Geologist
- Park Ranger
- Physicist
- Related Military Careers
- Zoologist

Foundations Courses | 1.0 Credit Required

Grades 10–12

- Earth and Space Science (1.0 credit) H3017
- Environmental Science (1.0 credit) H3040

Skills Courses | 2.5 Credits Required

Grades 9–12

- Outdoor Pursuits I (0.5 credit) H6615
- Outdoor Pursuits II (0.5 credit) H6616

Grades 10–12

- AP Physics I: Algebra-Based * (1.0 credit) H3034
- Botany and the Diversity of Life (0.5 credit) H3070
- Chemistry (1.0 credit) H3020
- Contemporary Issues (0.5 credit) H2060
- Physics (1.0 credit) H3031
- Zoology (0.5 credit) H3080

Grades 11–12

- AP Biology* (1.0 credit) H3015
- AP Environmental Science* (1.0 credit) H3045

Capstone Experience | 1.0 Credit Required

Grades 11–12

- AP Biology* (1.0 credit) H3015
- AP Chemistry* (1.0 credit) H3025
- AP Environmental Science* (1.0 credit) H3045
- AP Physics II: Algebra-Based* (1.0 credit) H3038
- AP Seminar* (1.0 credit) H1020
- Dual enrollment options- pathway related
- Ignite Your Future Business Incubator++ (3.0 credits) H6144
- Independent Science Research I /II* (1.0 credit) H3095/H3096

Grade 12

- AP Research* (1.0 credit) H1015
- Pathways Internship++ (1.5 credit) H9240

Learners can only earn credit for a course once when working towards pathway completion.
*Weighted course ++This program requires an application & acceptance process.