

Course Name: Evolution of Earth and Life

EDU: 5900

Mode: Online Asynchronous

Dates : Summer 2024

Instructor: William Behrens

Course Description:

Explore an incredible journey back to where it all began some 14 billion years ago with the big bang. The primary principles of this course will include the evolution of our solar system, atmosphere, oceans, land and life from its origin to modern day. Participants will be expected to complete daily readings, videos, discussion forums and answer questions in each module. This course is applicable for all content areas and all grade levels.

Course Learning Objectives:

1. Create a timeline of geologic and biological events throughout Earth's history.
2. Identify various cycles that contribute to the formation of life.
3. Describe Charles Darwin principal theories of evolution.
4. Construct an explanation of life on planet earth.

Course Grading:

Discussion # 1 Introductions: Where it all Begins! (5pts)

Module # 1 Earth (8pts)

Module # 2 Creation of Land (8pts)

Module # 3 The Great Oxidation Event (8pts)

Module # 4 Becoming the Blue Planet (8pts)

Discussion # 2 A Model for Life! (5pts)

Module # 5 Origin Of Life (8pts)

Module # 6 Impact Events: Climate Life and Death (8pts)

Discussion # 3 To Rise from the Ashes (5pts)

Module # 7 A path for Humans (8pts)

Module # 8 Darwinism and the Theory of Evolution (8pts)

Discussion # 4 Final Thoughts (6pts)

Final Project (15pts)