**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: PHSC 1402

Course Title: Introduction to Geology

Credit Hours: 3

Prerequisites: None

Division/Discipline: Academics Division/Physical Science

Course Description: This class provides an introduction to the principles of earth science and will include a study of the formation, occurrence, and structures, of minerals and rocks, the action of streams, oceans, glaciers, and other agents in the formations and modification of landscape. Enrollment in PHSC 1403 Introduction to Geology Laboratory is required.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

## Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

## Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

## The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

## Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

Although considered a general education science course to fulfill the requirements of many curricula, Introduction to Geology serves at the introductory course in geology for those interested in geology, agriculture, or engineering. Students who need a 5 credit hour lab science course should also enroll in the two credit hour course, PHSC 1403 Introduction to Geology Laboratory.

General education requirements vary among institutions, and perhaps even among departments, colleges, or programs within an institution. Also, these requirements may change from time to time and without notification. Therefore, it shall be the student’s responsibility to obtain relevant information from intended transfer institutions during his (her) tenure at Barton Community College to insure that he (she) enrolls in the most appropriate set of courses for the transfer program.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Understand the earth as a whole: size, shape, age, place in the universe, internal structure, external features, and processes which have shaped the earth and continue to shape it.
   1. Develop a basic working knowledge of the scientific method and how it can be applied to geologic questions.
   2. Develop a basic understanding of the major rock-forming minerals; including their chemical structure, distribution on and within the Earth, and common uses.
   3. Understand the approximate age of the Earth and the methods used to age rocks.
   4. Memorize the primary time divisions of Earth history and recognize them by their major physical and biological events.
   5. Recognize how and why earthquakes occur and how scientists locate the epicenters of earthquakes.
   6. Develop an understanding of the major subdivisions of the Earth’s interior and how they differ from one another.
   7. Develop an understanding the driving force, resulting structures, and supporting evidence for the theory of plate tectonics.
2. Recognize and appreciate the geologic features of Kansas.
   1. Develop a knowledge of igneous, sedimentary, and metamorphic rocks; including their mineralogy, origination, distribution, and importance to humans.
3. Develop sensitivity to the environment by learning how to both preserve and utilize the earth’s resources.
   1. Develop an understanding and appreciation for the major processes governing surface features on Earth.

# **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

Since laboratory activities are integral to the learning outcomes of this lab science course, students must pass the laboratory portion of the class in order to successfully complete (“pass”) the course.

# **ATTENDANCE REQUIREMENTS**

# **COURSE OUTLINE**