Current Pathways

Courses and Descriptions

**ECOL 1401** Earth Science for Non-Senior Majors I – This course is an introductory study of physical geology, historical geology, oceanography, and meteorology. It relates the interaction of the earth sciences to the physical world.

**ECOL 1402** Earth Science for Non-Senior Majors II – This course continues the study of the interaction of the earth sciences and the physical world, focusing on natural resources, natural hazards, and climate variability.

**GEOL 1403** Physical Geology – It is an integrated study of earth materials and processes and interactions between solid earth, oceans, atmosphere, and biosphere. It includes an introduction to plate tectonics theory, geophysics, geology, hydrology, geomorphology, and the earth's setting in space.

**GEOL 1404** Historical Geology – It is a study of earth materials and processes within a developmental time perspective. Topics include: fossil taxonomy and preservation, stratigraphy, geologic time scale, relative and absolute age dating, geologic maps, plate tectonics, orogeny, events during each major interval of the geologic time scale, glaciation, evolution, and energy.

**GEOL 1405** Environmental Science – This course covers the earth as a habitat and the interrelationships between humans and the physical environment. Topics include: land-use planning, population growth, waste disposal, pollution, conservation, climate, energy, and renewable resource development, population dynamics, and issues in environmental geoscience.

**GEOL 1406** Geomorphology – This is an introductory study of the geological, chemical, physical and biological characteristics and processes of earth surfaces. Topics include the formation of river basins and geologic materials, interpretation of stream, water, and lake, regional, oceanic, and marine interaction with the atmosphere, marine pollution, reservoir resources, and life in the ocean.

**GEOL 1407** Meteorology – This course will survey various phenomena, climates, and weather systems that control them. Topics covered include: cloud formation and structure of the atmosphere, interaction of the ocean and the atmosphere, climate, hazards of severe weather, and methods of forecasting weather.

**GEOL 1408** Oceanography – This is a study of the Earth's oceans, the organisms that live in them, and the processes by which they interact. Topics include: oceanographic sampling, physical oceanography, marine ecosystems, and ocean biogeochemistry.

**GEOL 1409** Oceanography – This is a study of the Earth's oceans, the organisms that live in them, and the processes by which they interact. Topics include: oceanographic sampling, physical oceanography, marine ecosystems, and ocean biogeochemistry.

**GEOL 1410** Geology – This is a study of the Earth's geology, the structures and processes that have shaped the Earth, and the history of life on Earth. Topics include: plate tectonics, geologic time, mineralogy, and sedimentary and igneous processes.

**GEOL 1411** Geology – This is a study of the Earth's geology, the structures and processes that have shaped the Earth, and the history of life on Earth. Topics include: plate tectonics, geologic time, mineralogy, and sedimentary and igneous processes.

In 2010-2015, the Texas Collaborative on Community Colleges (TCOC) conducted a survey of Texas community college faculty and staff to determine the priority needs for coursework in their respective institutions. The survey included questions about the current course offerings, the need for new courses, and the potential benefits of adding new courses. The results of the survey indicated that there was a need for new courses in many areas, especially in the fields of sustainable living, environmental science, and geology.

**Geology Department**

The Dallas County Ethnic Studies (DCES) program is a minority serving institution (MSI) that offers a variety of courses in ethnic and Latinx studies. The program is committed to providing high-quality education and research opportunities for students from diverse backgrounds. The DCES program includes a range of courses in ethnic studies, including Chicano/Latino studies, African American studies, and Asian American studies. The program also offers courses in thematic areas such as gender, sexuality, and identity.

**Alternative Routes Ahead**

**Applying for a New Course Code**

To request a new course code, the faculty member must make a written request to the committee that includes the following information:

1. **Course Title and Description**
2. **Course Learning Outcomes**
3. **Course Prerequisites**
4. **Course Credits**
5. **Course Format**
6. **Course Delivery Methods**

**Using Current Course Options**

The Texas Collaborative on Community Colleges (TCOC) conducted a survey of Texas community college faculty and staff to determine the priority needs for coursework in their respective institutions. The survey included questions about the current course offerings, the need for new courses, and the potential benefits of adding new courses. The results of the survey indicated that there was a need for new courses in many areas, especially in the fields of sustainable living, environmental science, and geology.

**Conclusions**

- **Brookhaven College** is a minority serving institution (MSI) that offers a variety of courses in ethnic and Latinx studies. The program is committed to providing high-quality education and research opportunities for students from diverse backgrounds. The DCES program includes a range of courses in ethnic studies, including Chicano/Latino studies, African American studies, and Asian American studies. The program also offers courses in thematic areas such as gender, sexuality, and identity.

- **Employee Engagement**

    - **Collective bargaining**
    - **Employee benefits**
    - **Training and development**

- **Sustainability and Community Engagement**

    - **Earth Day Texas**
    - **Environmental Stewardship**
    - **Community Service Projects**

- **Infrastructure and Technology**

    - **Technology Integration**
    - **Online Learning**
    - **Virtual Learning Environments**