

J. Sargeant Reynolds Community College  
Course Content Summary

Course Prefix and Number: GOL 105 Credits: 4

Course Title: Physical Geology

Course Description :

o

- o Identify and describe sedimentary structures
- o Explain the economic value of sedimentary rocks and their use in energy production
- x Depositional Environments
  - o Identify and describe the continental, transitional, and marine depositional environments
  - o Identify and describe the features associated with the most common depositional environments
  - o Explain the dominant processes or agents responsible for shaping and modifying a particular depositional environment
  - o Use topographic maps to identify depositional landforms
- x Crustal Deformation and Mountain Building
  - o Identify and explain the origin of structural features, such as folds, faults, and the tectonic stresses involved
  - o Describe how structural features are mapped using strike and dip
  - o Explain the origin of mountains
  - o Explain the principle of isostasy

- o Explain the origin of glaciers and their impact on global sea level
- o Identify and describe the erosional and depositional features associated with alpine and continental glaciers
- o

- o Conduct on-site or on-

