

Introduction to Petroleum Geology (3 credit hours): This course provides an introduction to the entire Petroleum Geosciences degree program. Early in the class exercises will be provided to determine the skill levels of the students as a whole so that this course and the program can be modified to provide the greatest educational opportunity to any particular class of students in this program. The following is a suggested course outline to be modified appropriately.

Course Outline

1. Review of the Geoscience Program and skill-set exercises
2. History of Petroleum Geology
3. Physical and chemical properties of petroleum
4. Methods of exploration
5. The subsurface environment
6. Generation and migration of oil
7. The reservoir
8. Traps, seals, and compartments
9. Sedimentary basins and petroleum systems
10. Non conventional resources
11. Economics and risk