

Organic Fuel Sciences 206-23911 – 2 credits

Dr. Harold Vinegar

Syllabus

This course is an introduction to the exciting discipline of petroleum science. The course will cover the diverse aspects of the oil industry, from petroleum generation and trapping, to hydrocarbon exploration, production, transportation and finally refining. It will stress how the different scientific disciplines, from geology, geochemistry, geophysics, petrophysics, physics and chemical engineering are integrated in the modern oil company. The course will demonstrate the critical role that geology plays in oil recovery. The course will highlight how unconventional oil sources, such as tar sands and oil shale, must play a significant role in the world and Israel's energy future while also lowering the overall carbon footprint.

Bibliography

Course reading materials are placed by the instructor on the course Web page during term time.

Course Requirements

2 hr lecture

Grading

80% final exam

20% exercise