New course announcement

Science and Engineering of Oil Spills
ME597 (CRN 54061)
TTh noon-1.15pm, Grissom Hall 170

Description:  The 2010 Macondo oil spill underscored the tremendous need for scientists and engineers to understand the myriad technical aspects of oil spills. These critical issues range from the complicated fluid mechanics of two-phase mixtures of heavy and light hydrocarbons to the effects of hydrocarbons on life in the water column to the devastating effects of the oil on Gulf fishing and tourism. This class will concentrate on the more technical aspects of the oil spill but will also explore the societal, ecological, and other far ranging effects.

Prerequisites:  Students should have advanced undergraduate or graduate standing in an engineering or science major. The course will be technical in nature but because of the broad nature of the course and likely enrollees, the concepts will start from a common undergraduate background level.

Format:  The class will be primarily a lecture class. Many of the lectures will be delivered by guest speakers both from inside and outside the Purdue community. Grades will be based on several large projects and smaller homework sets and an in-class midterm. No final exam will be given.

For further information contact the course instructor, Steve Wereley (wereley@purdue.edu)