Course: ENPM 627 – Environmental Risk Analysis
Semester: Fall 2016
Day(s): Thursday
Time: 4:00-6:40 PM
Location: JMP 2217
Instructor: Dr. Karen Pinkston, Dr. Christianne Ridge
Phone: Email:

Course Description

This course covers the methodology used to perform environmental risk assessments. Topics covered include: source term release, surface water, groundwater, and atmospheric transport, food chain modeling, exposure assessment, basic human toxicology, dose-response characterization, and uncertainty and sensitivity analysis.

Grading Procedures:
Homework 20%
Mid-term exams (2) 40%
Final exam 40%

Textbook(s)


Required? Yes

Course Outline

9/1/2016 Introduction
9/8/2016 Fundamental Aspects of Environmental Modeling
9/15/2016 Release Assessment, Environmental Transport Theory
9/22/2016 Surface Water Transport
9/29/2016 Groundwater Transport
10/6/2016 Atmospheric Transport
10/13/2016 Food Chain Transport [first midterm during second half of class]
10/20/2016 Exposure Assessment
10/27/2016 Basic Human Toxicology
11/3/2016 Dose-Response and Risk Characterization
11/10/2016 Uncertainty and Sensitivity Analysis [second midterm during second half of class]
11/17/2016 Uncertainty and Sensitivity Analysis (concluded)
12/1/2016 Stakeholder Involvement and Risk Communication, Environmental Risk Management
12/8/2016 Final Exam
Code of Academic Integrity

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity of the Student Honor Council, please visit http://shc.umd.edu/SHC/HonorPledgeInformation.aspx.