

SAFETY ANALYSIS OF NUCLEAR REACTOR SYSTEMS

NPRE 457 / CSE 462

<http://www.mragheb.com>

Fall 20014

3 hours or 1 unit

Outline:

Recommended texts:

1. M. Ragheb, "Lecture Notes on Probabilistic, Possibilistic and Deterministic Safety," Nuclear, Plasma, and Radiological Engineering," Univ. of Illinois at Urbana-Champaign, 2008.
2. R. R. Fulwood and R. Hall, "Probabilistic Risk Assessment in the Nuclear Power Industry, Fundamentals and Applications," Pergamon Press, 1988.

Instructor:

Prof. M. Ragheb
O: 333-6569

Classes: MWF 3-4 pm

Office: MW 4-5 pm

Prerequisite: advanced calculus, consent of instructor

Tests, Grade:

Two midterms and one final exam: 60 percent

Homeworks, quizzes, projects: 40 percent

To obtain a full 1-unit credit, Graduate Students are expected to present a term paper or project for a ¼ unit on an advanced topic related to the course.