



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Probabilistic Reliability and Safety Assessment

## NUCLREN 6716

**Credit Hours:**

3.00 - 3.00

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**Course Components:**

Lecture

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**Course Description:**

Methods underlying probabilistic risk assessment (PRA) and how they are used in assessing the public health risk of nuclear systems.

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**Prerequisites and Co-requisites:**

Prereq: 4505 (505), MechEng 4505 (505), Grad standing, or permission of instructor.

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**Course Goals / Objectives:**

- Become familiar with the basic concepts used in system reliability engineering and probabilistic risk assessment
- Develop working skills with some of the common techniques used in system reliability engineering and probabilistic risk assessment
- Learn how to implement these concepts and skills for nuclear power plant systems