NUCLEAR AND RADIOLOGICAL SCIENCES

This degree emphasizes the nuclear sciences rather than nuclear engineering. Students pursue a pre-medical specialization or a pre-medical physics specialization. Any student pursuing this degree must have a selected program, including option area electives, approved in advance by an advisor.

About this Program

- **College:** Herbert Wertheim College of Engineering
- **Degree:** Bachelor of Science
- **Specializations:** Pre-Medical | Pre-Medical Physics
- **Credits for Degree:** 125
- **Additional Information**
- **Related Nuclear Engineering and Science Programs**

To graduate with this major, students must complete all university, college, and major requirements.

The major in nuclear and radiological sciences educates students to work professionally in areas related to the control and safe utilization of nuclear energy, radiation and radioactivity.

Before Graduating Students Must

- Pass an assessment by two or more faculty and/or industry practitioners of performance on a major design experience.
- Pass assessment in two or more courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

**Content**
1. Apply knowledge of mathematics, science and engineering for problem solving in engineering.
2. Analyze and interpret experimental data.

**Critical Thinking**
3. Develop an engineering design to meet specific technical requirements within realistic constraints such as economic, environmental, health and safety and reliability.
4. Foster the need for lifelong learning and the ability to adapt this to engineering practice.

**Communication**
5. Function effectively on multidisciplinary skills teams.
6. Communicate effectively, using both oral and written presentations, in engineering practice.

**Curriculum Map**

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**Assessment Types**

- Assignments
- Exams
- Projects
- Presentations
- Additional assessment includes the senior exit survey

\(I = Introduced; \ R = Reinforced; \ A = Assessed\)