

MASTER OF SCIENCE OR ENGINEERING IN Nuclear Engineering

Rensselaer's Nuclear Engineering Master's program provides an educational experience that trains graduate engineers in methods, devices, and systems required for peaceful use of nuclear technology, specifically the operation, maintenance, reliability, and safety of current generation nuclear power plants, the development of new medical devices, and the development of next generation nuclear systems.

To accommodate a student's career plans and interests in these areas, the master's program requirements are structured so that there is great flexibility in choosing appropriate courses while ensuring sufficient depth and breadth. Each graduate student has an adviser who has the knowledge to make suggestions of specific courses to further the student's educational goals.

ADMISSION REQUIREMENTS

- Bachelor of Science degree in engineering
- Undergraduate GPA of 3.0 or higher
- Grades of "B" or better in courses completed since bachelor's degree
- GRE required
- TOEFL score of 600 or above (required for international students)
- Completed application form
- Official transcripts for all undergraduate and graduate work
- Statement of background and goals as it applies to the program
- Two letters of recommendation
- Resume

GRADUATION REQUIREMENTS

- Matriculated status
- Approved Plan of Study
- At least 18 credits must be at the 6000 level
- At least 21 credits from MANE
- Minimum 3.0 GPA; minimum 30 credits

PLAN OF STUDY (30 credit hours)

I. MANE Courses (21 credits)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

II. Culminating Experience (6-9 credits)

The culminating experience may be fulfilled with one of the following options:

- An approved sequence of three integrated or related courses; at least two courses must be in MANE; only one 4000-level course accepted. One of the courses must involve a project or design experience which integrates or synthesizes knowledge from the other courses taken in the Master's program.
OR
- A 6 credit project
OR
- An internship/practicum - minimum of one summer/one semester full-time work in approved setting

III. Electives (0-9 credits)

1. _____

NOTE:

1. A maximum of 6 credits may be taken from outside of Engineering or Science; courses outside of Management are allowed only by pre-approval of a faculty adviser.
2. Students interested in applying for a research oriented M.S. degree should discuss details related to curriculum and graduation requirements with a faculty adviser.