

## MASTER OF SCIENCE OR ENGINEERING IN Aeronautical Engineering

Rensselaer's Aeronautical Engineering Master's program provides an education experience that trains graduate engineers to address emerging needs in the areas of computational and theoretical fluid dynamics, aerodynamics, advanced propulsion, experimental fluid dynamics, energy conversion, dynamics, and optimal design.

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) (M.Eng. only)

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.