MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (265)

Program Coordinator:
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The Master of Science in Electrical Engineering provides a quality graduate program offered within a small setting, where students get individual attention. The program can be pursued either full or part-time, and is designed to serve recent graduates and practicing engineers who need in-depth knowledge in the rapidly changing and expanding areas of electrical engineering beyond what can be included in the traditional bachelor’s program. The program offers the following areas of specialization:

- Microelectronics
- Systems
- Energy
- Computer Engineering

The degree can be completed with two options: thesis and non-thesis. The program with thesis option emphasizes research and requires submission of a thesis. This option requires the completion of 30 credits, 24 course credits and 6 thesis credits. The non-thesis option requires completion of 30 course credits. Students in non-thesis track usually complete the program in 18 months.

Internship and Co-ops are available to students. Some of the companies that our students have recently interned include IBM, General Electrical, Honda Research, and Central Hudson Gas and Electric.

Admission Requirements

- One official copy of all undergraduate and graduate course work: consolidated transcript and individual mark sheets. A bachelor’s degree in Electrical Engineering or a closely related field from an ABET-accredited program.
- A minimum undergraduate cumulative grade point average of 3.0.
- Three letters of recommendation attesting to the applicant’s aptitude and promise for graduate study.
- English competency according to College procedures and standards. These include a TOEFL score of 74 on the internet-based exam, or a score of 6.0 on the IELTS exam and satisfactory performance on the campus-designed and administered English proficiency test.
examination.

- Acceptable GRE Scores

On a case-by-case basis, applicants who do not meet all of the conditions for admission may register as non-matriculated students for courses of a preparatory nature following the guidance of the Department. They can be considered by the Graduate School for matriculation after this prescribed preparatory work is completed.

Application Procedures

Our online application system allows students to manage their application process. Review the steps below for a quick overview of the process.

1. **PREPARE ADMISSION CHECKLIST ITEMS**
   
   To expedite a faculty review of an application, students may upload the following items:
   - Admission Essay
   - Student copies of transcripts* from every college/university attended
   - Student copies of standardized test scores*
   - Request letters of recommendation—after submitting the application, students will need to provide their recommender’s name and email address in order to complete the request process.
   - Evidence of NYS teaching certification (if appropriate)
   - Art portfolio (if appropriate)
   - International student documentation
   - Resume/CV (if appropriate)
   - Program specific forms (e.g., Com Dis pre-req form, etc.)

   * Full admission **REQUIRES** the submission of official transcripts and test scores.

2. **CREATE AN ACCOUNT**
   - **SUNY New Paltz** students, alumni, faculty and staff must log into the application system using their New Paltz credentials (NPCUID).
   - **NEW** students may create an account by selecting the New User option and verifying their email address.
   - **RETURNING** users may access the application system using their email address and password that was included when creating their account.

3. **SUBMIT YOUR APPLICATION**
   - Once you have logged into the system, select the term that you would like to begin your program.
     
     **NOTE:** Certain programs restrict admission to a specific term. Please email gradstudies@newpaltz.edu if you do not see the program that you would like to pursue.

4. **CHECK YOUR APPLICATION STATUS**
   - Log in as a **Returning User** to modify your application or monitor its status.
5. **Order OFFICIAL transcripts and test scores be sent to:**
   - SUNY New Paltz
     Graduate & Extended Learning
     800 Hawk Drive
     New Paltz, NY 12561-2442

**Ready to Apply?**

If you have questions about the application process or the programs offered, please contact the Office of Graduate & Extended Learning at (845) 257-3947 or gradstudies@newpaltz.edu.

**Degree Requirements**

- File a “plan of study” during the first semester after matriculation.
- Completion of prescribed course work and other requirements within seven years after matriculation.
- Maintain a cumulative average of 3.0 or better, with no more than two grades below B-.

**Curriculum Requirements**

For completion of the program and graduation, students must meet the following requirements:

**Thesis Option / 30 credits**

- Completion of 24 credits (all electives) of graduate courses.
- Completion of research and presentation of a thesis counting as 6 credits.

**Non-Thesis Option / 30 credits**

- Completion of 30 credits (all electives) of graduate courses.
- Successful passing of comprehensive examination.

**Electrical Engineering Electives**

Eight (thesis option) and ten (non-thesis option) courses are elected by the student from a list of the department graduate courses in electromagnetic fields and waves, telecommunications, electronics, computer and control systems depending on the students’ needs and interest.

The program does not require specialization in a concentration and the student under guidance of a graduate advisor may select courses of interest that will prepare him/her to pursue thesis or future work. Appropriate courses offered by cognate departments may be used to meet this requirement.

**MS Thesis in Electrical Engineering**

Research, writing and defense of a thesis under the guidance of the major professor.
Prerequisite: MS in Electrical Engineering candidate and PI.

**Comprehensive Examination**
Students with non-thesis option must pass a written comprehensive examination after completing their course work. This examination covers four subject matters based on the plan of study.

For course descriptions, please click COURSES.