

Electrical & Computer Engineering, MS

For the degree of Master of Science in Electrical and Computer Engineering

Applicants with a bachelor's degree may apply to the MS program or to the direct PhD (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-phd/) program.

Opportunity exists for specializing in computational science and engineering via the Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/) optional graduate concentration.

Department Research
Research interests of the Electrical and Computer Engineering faculty include the broad areas of study described in the graduate programs section and more. Many faculty members hold affiliate status with other departments, and a number of faculty members from other departments hold affiliate status with the department. In addition, some faculty hold appointments in the Beckman Institute for Advanced Science and Technology, the Coordinated Science Laboratory, the Materials Research Laboratory, and the Holonyak Micro and Nanotechnology Laboratory. All these affiliations provide opportunities for graduate student appointments to conduct research. For a detailed list of current research interests of the faculty, visit the department's research website (https://ece.illinois.edu/research/).

There are numerous interdisciplinary programs, laboratories, and centers for research within the department. These are described at the department's research centers website (https://ece.illinois.edu/research/centers-and-groups/).

For the degree of Master of Science in Electrical and Computer Engineering

For additional details and requirements refer to the department's Graduate Study Manual (https://ece.illinois.edu/academics/grad/msphd-manual/) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook/).

Required Courses: | Required Hours
---|---
Theoretical research – ECE 599 (min/max applied toward degree) | 8
ECE Colloquium – ECE 500 (registration for 0 hours every term while in residence) | 0
Elective courses (subject to Other Requirements and Conditions below) | 24
Total hours | 32

Other Requirements and Conditions

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit in ECE 415, ECE 445, ECE 590, ECE 596, PHYS 404, PHYS 435, PHYS 436, and STAT 400 does not count toward the degree.</td>
<td></td>
</tr>
</tbody>
</table>

12 credit hours must be 500-level ECE courses other than ECE 590, ECE 596, ECE 597, and ECE 599.

No course used to fulfill any degree requirement may be taken using the "Credit/No Credit" option.

A maximum of 4 hours of ECE 597 (or other individual study) may be applied toward the elective coursework requirement.

There is no final examination for the M.S. degree.

M.S. thesis deposit

Minimum GPA: 3.0

Admission Requirements

Admission for the spring semester is possible, in addition to the usual fall semester admissions.

Applicants must have completed an electrical engineering curriculum or a computer engineering curriculum substantially equivalent to those of the University of Illinois at Urbana-Champaign. Graduates of curricula in the physical sciences, mathematics, and computer science may be admitted if they are judged to have the necessary background to profit from graduate work in electrical and computer engineering. A minimum grade point average of 3.00 (A = 4.00) for the last two years of undergraduate study is required. However, because of space limitations, applicants with GPAs below 3.50 are rarely admitted. The Graduate Record Examination (GRE) (http://www.ets.org/) is optional.

All applicants whose native language is not English are required to submit TOEFL (http://www.toefl.org/) or International English Language Testing System (IELTS) (http://www.ielts.org/) scores as evidence of English proficiency. Minimum admission requirements (https://grad.illinois.edu/admissions/instructions/04c/) are set by the Graduate College.

Financial Aid

Information listed in this catalog is current as of 05/2024
Fellowships, research assistantships, and teaching assistantships (all of which include tuition and partial fee waivers) are available for the majority of students who are admitted to the MS and PhD programs. International applicants generally are not awarded teaching assistantships, but are eligible for the other forms of financial aid.

All applicants, regardless of US citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 24 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the iBT or IELTS, a minimum score of 5 is required on the OEAI Test (https://linguistics.illinois.edu/testing/oeai/), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (https://citl.illinois.edu/citl-101/teaching-learning/grad-academy-for-college-teaching/) conducted prior to the start of the semester and register for ECE 590TL.

For the degree of Master of Science in Electrical and Computer Engineering

Department of Electrical and Computer Engineering
Department Head: Bruce Hajek (b-hajek@illinois.edu)
Director of Graduate Studies: Sayan Mitra (mitras@illinois.edu)
Electrical and Computer Engineering website (http://ece.illinois.edu)
ECE Program website
Electrical and Computer Engineering faculty
2120 Electrical and Computer Engineering Bldg, 306 N Wright St, Urbana, IL 61801
(217) 300-2414

Grainger College of Engineering
Grainger College of Engineering website (https://grainger.illinois.edu/)

Admissions
Contact: Jennifer Merry (merry@illinois.edu)
Applicant email (ece-grad-apps@illinois.edu)
Electrical and Computer Engineering Admissions & Requirements
(https://ece.illinois.edu/admissions/graduate/admissions-requirements-and-process/)
Graduate College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)

Information listed in this catalog is current as of 05/2024