

COMPUTER ENGINEERING, BS AND ELECTRICAL & COMPUTER ENGINEERING, MENG

for the joint degree of Bachelor of Science Major in Computer Engineering and Master of Engineering in Electrical & Computer Engineering

department catalog page: Electrical & Computer Engineering Catalog (<http://catalog.illinois.edu/engineer/electrical-computer-engin>)

department website: <https://ece.illinois.edu>

department faculty: Electrical & Computer Engineering Faculty (<https://ece.illinois.edu/directory/faculty.asp>)

overview of college admissions & requirements: Engineering Catalog (<http://catalog.illinois.edu/engineer>)

college website: <https://engineering.illinois.edu/>

The joint B.S. - M.Eng. program in Electrical and Computer Engineering combines two degrees: a B.S. in EE or CompE with a M.Eng. in ECE. Current Illinois ECE students enrolled in the College of Engineering with junior standing (normally at least 90 credit hours, including those in process, and at least one year of undergraduate coursework remaining) who maintain superior academic performance are eligible to apply for this program. The program is designed to broaden a student's knowledge beyond that possible in the standard 4-year curriculum. Students admitted to the program will receive both degrees once all requirements for both the B.S. - M.Eng. degree have been successfully completed. Students may participate in the graduation ceremonies for their B.S. degree once the 120 credit-hour requirement is met. There will be no Graduate College or BOT waivers allowed for students in this program. This program is not intended for students intending to pursue the Ph.D. degree—such students should apply to the traditional M.S. (with thesis) degree program.

Admission to the Program

For deadlines and procedures, consult the department website. Current Illinois ECE students with at least 90 credit hours and an overall GPA of at least 3.40 may apply for provisional admission to the program. Admission decisions are based on overall academic performance, letters of reference, and statement of purpose. The GRE general test is not required.

Students provisionally admitted to the program:

- are assigned a graduate academic advisor when admitted.
- must maintain an overall GPA of 3.40 through completion of the B.S. component of the program in order to remain in the program.
- may register for graduate courses and earn graduate hour credits, with approval from their graduate academic advisor, when they have less than 12 credit hours remaining in their B.S. component.
- must earn at least 120 hours of undergraduate credit and satisfy all B.S. requirements of this program to be officially admitted to the Graduate College.

Upon successful completion of the B.S. component students:

- must apply and be officially admitted into the Graduate College.
- will be issued letters of admission from the Graduate College and the ECE Department, at which time they will be considered graduate students and assessed graduate tuition the following semester.
- must satisfy the graduate student minimum residence requirement, which is 24 graduate credit hours.
- must continue to maintain a graduate GPA of 3.00 or better in order to remain in the combined program.

Withdrawal

Students may withdraw from the program at any time by notifying the Office of the Associate Dean for Undergraduate Programs. Students who do not complete all B.S. - M.Eng. degree requirements may request by petition to have graduate hours earned converted to undergraduate hours and applied toward a traditional B.S. in Electrical Engineering or B.S. in Computer Engineering degree. Students reverting to a traditional B.S. degree program must complete 128 hours and satisfy all degree requirements. Graduate credit not used to fulfill the B.S. degree requirements will remain on the transcript and may, at some future point, be considered for transfer to another degree program.

*The 120-hour B.S. degree from the B.S. - M.Eng. program is not ABET accredited, but would be if the student withdrew from the M.Eng. component and completed the requirements of the traditional 128-hour B.S. program.

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Course Requirements

B.S. Component (120 hours)*

- Same required courses as the traditional B.S. degree with minimum hours required reduced from 128 to 120.
- The reduction of 8 credit hours includes:
 - 6 hours in Free Electives in both EE and CompE curricula
 - 2 hours in ECE courses in EE Technical Electives or 2 hours in ECE or CS courses in CompE Technical Electives.
- Overall GPA of 3.40 must be maintained through completion of B.S. component of the program.
- Illinois undergraduate student minimum residence requirement must be satisfied.

M.Eng. Component (32 additional hours of coursework)

- Identical to stand-alone M.Eng. degree requirements:

Required Courses:	Required Hours
Coursework	32
ECE 500 registration (0 hours) every 0 term while in residence	
500-level ECE courses (subject to Other Requirements and Conditions below)	12
Professional Development: ECE 596 Master's Project supervised by ECE (or affiliate) graduate faculty or course(s) in leadership, entrepreneurship, or other business-related topic from approved list or as approved by ECE Director of Graduate Studies	4

Elective courses (subject to Other Requirements and Conditions below) 16

Other Requirements and Conditions (may overlap)

Requirement	Description
	A minimum of 12 credit hours of ECE coursework at 500-level must be applied toward the degree. Up to 4 hours of ECE 596 and/or ECE 597 (or other individual study) may be applied toward this degree requirement.
	Coursework must include at least 18 credit hours of ECE coursework; 15 of these hours must be from no more than 2 different focus areas. The ECE Graduate Committee maintains the Focus area course lists.
	Credit in ECE 411, ECE 415, ECE 445, ECE 590, PHYS 404, PHYS 435, PHYS 436, and STAT 400 do not count toward the degree.
	No course used to fulfill any degree requirement may be taken using the "Credit/No Credit" option.
	This degree option is non-thesis only.
	Maintain a minimum program GPA of 3.0.