

# ELECTRICAL ENGINEERING (ENGINEERING)

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## Degree Requirements

### Master of Science (M.S.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (<https://gradschool.psu.edu/graduate-education-policies/>)

1. Thesis option--a total of 32 credits (at least 18 at the 500-and 600-level combined) including:
  - a. 24 credits in course work, with at least 12 credits in courses with the EE designation;
  - b. 2 colloquium credits (EE 500);
  - c. 6 thesis credits (EE 600 or EE 610);
  - d. and a thesis accepted by the advisers and/or committee members, the head of the graduate program, and the Graduate School;
2. Paper option--a total of 32 credits (at least 18 at the 500-level) including:
  - a. 27 credits in course work, with at least 14 credits in courses with the EE designation;
  - b. 2 colloquium credits (EE 500);
  - c. 3 paper credits (EE 594);
  - d. and a satisfactory scholarly paper.

### Doctor of Philosophy (Ph.D.)

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The communication requirement is met by adequacy in both spoken and written English. This is accomplished through testing and remedial course requirements. All doctoral students must pass a qualifying examination, a comprehensive examination, and a final oral examination. To earn the Ph.D. degree, doctoral students must also write a dissertation that is accepted by the Ph.D. committee, the head of the graduate program, and the Graduate School. The qualifying examination consists of both written and oral parts; the oral comprehensive examination is preceded by the writing of a dissertation proposal. The program requires a minimum of 39 course credits and 2 colloquium credits (EE 500) beyond the B.S. degree.