Electrical & Systems Engineering

Phone: 314-935-7520
Website: http://ese.wustl.edu

Degree Requirements

PhD in Electrical Engineering or Systems Science & Mathematics

The Department of Electrical & Systems Engineering at Washington University in St. Louis offers two PhD programs. Both the PhD in Electrical Engineering and the PhD in Systems Science & Mathematics are academic doctoral degrees designed mainly for full-time students interested in an academic, laboratory and/or industrial research and development career in a specialization within electrical engineering, systems, control or applied mathematics.

Students pursuing the Doctor of Philosophy degrees in Electrical Engineering or Systems Science & Mathematics must complete a minimum of 72 credit units of post-baccalaureate study consistent with the residency and other applicable requirements of Washington University and the Graduate School. These 72 units must consist of at least 36 course units and at least 24 units of research and may include work done to satisfy the requirements of a master's degree in a related discipline. Up to 24 units may be transferred to Washington University from another institution.

Each candidate for the PhD degree in Electrical Engineering and the PhD degree in Systems Science & Mathematics must do the following:

- Complete at least 36 credit units of post-baccalaureate courses.
- Complete the qualifying process (which includes a qualifying examination) and match with a research mentor before the second academic year of the program.
- Pass an oral preliminary research examination, to be completed within two academic years of completing the qualifying process.
- Satisfy the general teaching requirement as specified for the department.
- Write a doctoral dissertation that describes the results of original and creative research in a specialization within electrical engineering or systems science and mathematics.
- Pass a final oral examination in defense of the dissertation research.
- Take ESE 590 Electrical & Systems Engineering Graduate Seminar each semester.