Electrical Engineering, M.S.E.E., Ph.D.

Degrees Offered

- Masters of Science, Electrical Engineering (M.S.E.E.)
- Doctor of Philosophy, Electrical Engineering (Ph.D.)

Nature of the Program

The Masters of Science in Electrical Engineering (M.S.E.E.) degree program is intended for students who have an undergraduate degree in Electrical Engineering, Computer Engineering, or a closely related discipline, and wish to broaden their depth of understanding in one or more areas of the field. Program graduates will be qualified to pursue careers in industry, government, or further academic study. The Doctor of Philosophy program should be considered by those with superior academic achievement and who desire to pursue a career of research or teaching.

Program Educational Objectives

The objective of the Electrical Engineering graduate degree programs is to produce graduates who have the knowledge, skills, and attitudes that will ensure success in professional positions in business, industry, research, government service, or in further graduate or professional study.

Specific outcomes that will be achieved by graduates of the program are:

1. Achieve a depth of proficiency in a specific field of Electrical Engineering by completing major courses in one of four areas: electronics and photononics; systems and signals; computer systems; or software and knowledge engineering.
2. Achieve a breadth of understanding of Electrical Engineering by completing minor coursework requirements in another area, and by participation in graduate seminar requirements.
3. Demonstrate professionalism and communication skills through completion of coursework, project, thesis defense or doctoral defense.

Admissions for 2026-2027

MASTER ADMISSIONS

To be eligible for admission into the Master of Science in Electrical Engineering degree program, a candidate must fulfill the following requirements:

- A minimum cumulative GPA of 3.0 or equivalent, based on a 4.0 scale.
- A statement of purpose.
- Three letters of reference.
- All applicants require an appropriate bachelors for entry. Students lacking some foundation courses appropriate to a particular degree program may be assigned some preparatory coursework as a condition of admission (see Foundation Assessment section).
- International applicants must meet the WVU requirement of English language proficiency (https://graduateadmissions.wvu.edu/information-for/international-students/).

DOCTORAL ADMISSIONS

To be eligible for admission into the doctoral program, a candidate must fulfill the following requirements:

- A minimum cumulative GPA of 3.0 or equivalent, based on a 4.0 scale.
- A statement of purpose.
- Three letters of reference.
- Submission of GRE scores. GRE scores are required for admission and to be considered for graduate assistantships. The GRE requirement can be waived for students from:
  - ABET accredited undergraduate programs with a 3.2 BS GPA and/or 3.2 MS GPA or better.
  - An institution with a top 1000 QS world ranking OR a top 600 QS world program ranking for Electrical Engineering or Computer Engineering with a 3.2 BS GPA and/or 3.2 MS GPA.
- All applicants require an appropriate master's degree for entry. Students lacking some foundation courses appropriate to a particular degree program may be assigned some preparatory coursework as a condition of admission (see Foundation Assessment section).
- International applicants must meet the WVU requirement of English language proficiency (https://graduateadmissions.wvu.edu/information-for/international-students/).

FOUNDATION ASSESSMENT

Upon application review and discussion with the graduate coordinator, it may be determined a student needs preparatory work in order to pursue a graduate degree. Students with deficiencies may be required to take courses as prerequisites for graduate courses. Deficiencies are usually noted as a condition for admission; however, they may also be identified after joining the program.

MSEE Major Code: 3025
PhD Major Code: 3026

For specific information on the following programs, please see the links to the right:

- Electrical Engineering, M.S.E.E.

For specific information on the following programs, please see the links to the right:

- Electrical Engineering, Ph.D.