Graduate Programs
The School of Electrical and Computer Engineering offers three graduate degrees, all in electrical engineering: Master of Engineering (MEngEE), Master of Science (MSEE) and Doctor of Philosophy (PhDEE).

These graduate degree programs are flexible in course selection and emphasis. Both the Master of Engineering and the Master of Science programs are available online.

The Master of Engineering degree program is tailored to students who wish to gain advanced knowledge and expertise in subject areas associated with their professional pursuits. This non-research, non-thesis, instructional program is ideal for Distance Education students or for baccalaureate graduates interested in professional development to enhance their competitiveness in the workplace. It is well-suited for students who have little interest in a research-centric education.

The Master of Science degree emphasizes advanced mathematics, theory, design and research. It is intended for students interested in cutting-edge careers or who want to prepare for advanced research associated with the PhD program. This degree combines coursework with research that allows students to expand their knowledge in an in-depth area of electrical engineering or computer engineering. The MSEE program culminates with the defense of a thesis.

The Doctor of Philosophy degree is designed to prepare students for positions in academia, industry and government. This degree emphasizes the creation of new knowledge through the in-depth research process, as documented in the doctoral dissertation.

The School of Electrical and Computer Engineering also offers a "4+1" degree program that combines the BSEE/BScPcE degree programs with the MEngEE degree program. The "4+1" program is only available to OSU baccalaureate students. It is designed to be completed in five years and to give students a broad-based undergraduate education in electrical engineering or computer engineering along with a highly in-depth graduate education in a few key areas. This program is ideal for those students who want advanced knowledge to enhance their competitiveness in the workforce and to satisfy their longing for in-depth knowledge that cannot be obtained in the baccalaureate degrees. Specific requirements for the "4+1" program are available on the web in the document entitled “Memorandum to Graduate Students;” see https://ece.okstate.edu/.

Students typically select coursework and participate in research and design projects in the following areas:

- Communication systems, cybersecurity and networks
- Control systems, robotics and mechatronics
- Analog, mixed-signal and RF electronics
- Computer architecture, VLSI digital circuits and arithmetic
- Electromagnetics and THz sciences
- Microcontrollers and embedded control
- Photonics and electro-optics
- Digital signal, image and video processing

Admission Requirements
Admission to the Graduate College, as described under “General Regulations” in the “Graduate College” section of the University Catalog is required. Graduation from an electrical engineering or computer engineering program accredited by the ABET is required for admission to the School of Electrical and Computer Engineering. In addition, sufficient GRE scores are required for admission to the doctoral program in the School of Electrical and Computer Engineering.

Graduates from non-engineering fields such as mathematics, physics and computer science are also admitted to the School of Electrical and Computer Engineering graduate programs if an evaluation of the applicant’s official transcript indicates that the applicant is prepared to succeed in graduate-level course work in electrical and computer engineering, or can be expected to do so after a reasonable amount of remedial coursework has been completed. This condition also applies to graduates of unaccredited engineering programs and engineering technology programs.

Degree Requirements
The Master of Engineering degree in Electrical Engineering (MEngEE) is awarded to those students who successfully complete an approved plan of study. The degree requires 33 credit hours of coursework; a thesis is not required. The plan of study requires, at a minimum, 24 hours of 5000-level courses, covering four areas in electrical and computer engineering (designated by second digit of the course number). Most plans of study include additional 5000-level courses, depending upon the background and particular educational goals of the student. Additional remedial work in undergraduate electrical and computer engineering courses may be required for students who do not have a sufficient background in electrical engineering. Specific requirements for the MEngEE program are available on the web in the document entitled “Memorandum to Graduate Students;” see https://ece.okstate.edu/ (https://ceat.okstate.edu/ece/).

The Master of Science degree in Electrical Engineering (MSEE) is awarded to those students who successfully complete an approved plan of study. The degree requires 24 credit hours of coursework plus 6 credit hours for the thesis. In addition to the thesis requirement, the plan of study requires, at a minimum, 21 hours of 5000-level courses in at least two areas in electrical and computer engineering (designated by second digit of the course number). Most plans of study include additional 5000-level courses, depending upon the background and particular educational goals of the student. Each student is encouraged to include courses in supporting disciplines such as mathematics, physics, computer science or other engineering fields. Additional remedial work in undergraduate electrical and computer engineering courses may be required for students who do not have a sufficient background in electrical engineering. Specific requirements for the MSEE program are available on the web in the document entitled “Memorandum to Graduate Students;” see https://ece.okstate.edu/ (https://ceat.okstate.edu/ece/).

The Doctor of Philosophy (PhDEE) degree is granted to recognize high achievement in coursework selected from the broad field of electrical and computer engineering. The degree is conferred on those who demonstrate the ability to perform independent research in a chosen field of specialization that generates new knowledge, as presented in a dissertation. For this degree the Graduate College requires a minimum of 73 credit hours of acceptable academic work beyond the bachelor's
degree, including credit for the dissertation. Specific requirements for the PhD program are available on the web in the document entitled "Memorandum to Graduate Students," see https://ece.okstate.edu/ (https://ceat.okstate.edu/ece/).

The School of Electrical and Computer Engineering also participates in several interdisciplinary degree programs (See "Graduate Programs" under "Industrial Engineering and Management," and "Telecommunications Management" the "Graduate College" section of the Catalog.).