The Department of Engineering at Norfolk State University offers B.S. degrees in Electrical and Electronics Engineering and Optical Engineering and an M.S. degree in Electronics Engineering. The Department’s Engineering Advisory Board is composed of national leaders from government, universities, and industry. The Advisory Board helps to set the vision for departmental initiatives.

The Department of Engineering offers its students curricula that focus on key concepts and developments in the Electrical, Electronics and Optical engineering fields. The B.S. and M.S. degree programs provide students with exciting opportunities to conduct research at major research facilities of the university and other research laboratories, both nationally and internationally. Areas of research include biomedical engineering, carbon electronics, gaming, image processing, microelectronics, modeling and simulation, nanotechnology, high power electronics, optoelectronics, photonics, and quantum optics.

The mission of the Department of Engineering is to empower students with the knowledge, skills, and abilities needed for successful professional careers in engineering; to encourage innovation, creativity and an entrepreneurial spirit; to instill a sense of community responsibility; and to develop leaders for a technology-driven global society.

In order to provide the best possible undergraduate education, the department embraces the standards established by ABET, Inc., the sole accreditting agency for engineering programs in the United States. The B.S. programs in Electrical and Electronics Engineering and Optical Engineering are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

**General Department Requirements**

All students must complete the University’s general education requirements to qualify for the Bachelor of Science degree. Additionally, the department requires that all majors:

- meet prerequisites or their equivalents before enrolling in engineering courses;
- earn a grade of “C” or better in SEM 101 Spartan Seminar 101 and other Spartan Seminar classes, and in all English, mathematics, science and engineering courses; and,
- complete a senior design project.

**Electrical and Electronics Engineering Objectives**

The Norfolk State University Electrical and Electronics Engineering program faculty have identified a set of program educational objectives that describe the expected abilities of graduates as they enter the workforce. Graduates of the Electrical and Electronics Engineering program will:

- Devise technical solutions based on sound principles in science and engineering;
- Be effective communicators of technical information within professional settings or to broader audiences;
- Be ethically responsible members of the engineering community and cognizant of societal impacts of engineering solutions; and
- Continue their professional development in business settings or through advanced degree attainment.

**Optical Engineering Objectives**

The Norfolk State University Optical Engineering program faculty have identified a set of program educational objectives that describe the expected abilities of graduates as they enter the workforce. Graduates of the Optical Engineering program will:

- Devise technical solutions based on sound principles in science and engineering;
- Be effective communicators of technical information within professional settings or to broader audiences;
- Be ethically responsible members of the engineering community and cognizant of societal impacts of engineering solutions; and
- Continue their professional development in business settings or through advanced degree attainment.

**Engineering Programs**

- Bachelor of Science Electrical and Electronics Engineering (General) (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/electrical-electronics-bs-general/)
- Bachelor of Science in Electrical and Electronics Engineering (Track) (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/electrical-electronics-bs-track/)
- Bachelor of Science in Optical Engineering (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/optical-bs/)
- Minor in Biomedical Engineering (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/biomedical-minor/)
- Minor in Electrical and Electronics Engineering (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/electrical-electronics-minor/)
- Minor in Optical Engineering (https://catalog.nsu.edu/undergraduate/science-engineering-technology/engineering/optical-minor/)

**B.S./M.S. Accelerated Program**

- B.S./M.S. Accelerated Program in Electronics Engineering (https://catalog.nsu.edu/graduate/science-engineering-technology/engineering/electronics-ms/)

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