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 accrediting 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/)
- 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/)
Dr. Prathap Basappa, Professor
Office: RTC 405
Email: pbasappa@nsu.edu
Phone: 757-823-2854
Area of Research: VLSI Design, Power Electronics

Dr. Makarand Deo, Associate Professor
Office: RTC 410G
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Phone: 757-823-8301
Area of Research: Mathematical Modeling and Computer-aided Simulations, Computational Cardiac Engineering, Biosensor Integration

Dr. Hongzhi Guo, Assistant Professor
Office: RTC 410H
Email: hguo@nsu.edu
Phone: 757-823-2309
Area of Research: RF/microwave circuits, Bioelectromagnetism, machine learning

Dr. Renny Fernandez, Assistant Professor
Office: RTC 410K
Email: rfernandez@nsu.edu
Phone: 757-823-0036
Area of Research: Microfabrication, MEMS, Microfluidics, Biosensing

Dr. Adem Ibrahim, Professor
Office: RTC 410N
Email: ahibrahim@nsu.edu
Phone: 757-823-2341
Area of Research: Computational Mechanics, Design Optimization and Sensitivity Analysis

Dr. Michael Kozhevnikov, Associate Professor
Office: MCAR 510C
Email: mkozhevnikov@nsu.edu
Phone: 757-823-0055
Area of Research: Fiber Optics, Photonics & Sensors, Virtual Reality & Visualization

Dr. Kevin Santiago, Assistant Professor
Office: RTC 410C
Email: kcsantiago@nsu.edu
Phone: 757-823-9185
Area of Research: Micro/nano fabrication, plasmonic thin films, photonics

Dr. Kyo Song, Professor
Office: RTC 410M
Email: ksong@nsu.edu
Phone: 757-823-8105

Dr. Hargsoon Yoon, Professor
Office: RTC 410K
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Phone: 757-823-0051
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Area of Research: Biomedical Nanomaterials, Neural Sensing, Nano-electronic Materials & Devices

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