Electronics Engineering Program Educational Objectives

The Norfolk State University Engineering faculty will provide a state-of-the-art electronics engineering education capable of producing engineers that will:

- Advance the engineering field by applying problem solving skills, sound technical knowledge, and emerging technologies.
- Be effective communicators to diverse audiences and demonstrate leadership, teamwork and interpersonal skills.
- Continue professional development through advanced degree attainment and lifelong learning.
- Demonstrate professional ethics and societal responsibility through citizenship and civic mindedness.

Electronics Engineering Student Outcomes

The Electronics Engineering faculty has identified 7 core student learning outcomes that will fully support the ability of graduates to successfully pursue modern engineering opportunities beyond the undergraduate level. The faculty has further developed its curriculum to help students achieve the intended program outcomes. Students who successfully complete the Electronics Engineering Program curriculum will be able to demonstrate the following:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering
situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions

7. an ability to acquire and apply new knowledge, as needed, using appropriate learning strategies

## Electronics Engineering Program Statistics

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