Student Learning Outcomes for Academic Programs

A.A.S. in Electronic Engineering Technology Catalog Year 2018-19

General Education Outcomes

A robust general education is founded on the knowledge, concepts, methods, and perspectives that students gain through the study of many academic disciplines. These disciplinary studies stimulate intellectual inquiry, global awareness, and cultural and artistic appreciation: they equip students to make informed judgments and remain engaged beyond the classroom. To that end, QCC promotes educational activities that allow students to demonstrate that they can:

1. Communicate effectively in various forms
2. Use analytical reasoning to identify issues or problems and evaluate evidence in order to make informed decisions
3. Reason quantitatively as required in various fields of interest and in everyday life
4. Apply information management and digital technology skills useful for academic research and lifelong learning

To support these institutional general education outcomes, the academic departments; through their programs-may also assess the ability of students to:

- Integrate knowledge and skills in the program of study
- Make ethical judgments while recognizing multiple perspectives, as appropriate in the program of study
- Work collaboratively to accomplish learning objectives

Approved by the Academic Senate on February 13, 2018.

Student Outcomes

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline;
2. An ability to design solutions for well-defined technical problems and assist with engineering design of systems, components, or processes appropriate to the discipline;
3. An ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results;
5. An ability to function effectively as a member of a technical team;

Program Educational Objectives:

- Career Preparation and Advancement – Graduates will demonstrate mastery of the knowledge and skills needed for entry into or advancement in the field of Electronic Engineering Technology.
- Engineering Competence - Graduates will be competent technicians with problem solving and design skills, and have the ability to apply mathematics, science and modern engineering software to solve electrical and computer engineering technology problems.
- Professional Skills - Graduates will have strong communication skills, and the ability to work successfully in teams.
- College Transfer - Graduates will meet the requirements for transfer into the junior year of a baccalaureate program in engineering technology.
- Well-rounded Education - Graduates will demonstrate respect for diversity and knowledge of contemporary professional, societal, ethical, and global issues, and they will engage in life-long learning.

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