

School of Engineering Educational Objectives

The academic objectives of the School of Engineering are to provide high-quality engineering education programs that:

- Students: Through the LIVE (Leadership, Innovation, Vision and Entrepreneurship) philosophy, equip our students with the passion and personal skills required to be the technical leaders locally and globally.
- Faculty and Staff: Provide a supportive and stimulating environment for learning, research and professional services for faculty and staff.
- Research: To be a leading engineering school in the region in the applications of engineering and the development of new technology for the benefit of society.
- Campus Culture: Promote high ethical standards and a strong sense of professionalism.
- Commitment to Hong Kong: Promote and assist the economy development in Hong Kong and the Region, particularly those related to the application of engineering and technology.

Intended Learning Outcomes of Engineering Graduates

Upon graduation, students will have:

1. An ability to apply knowledge of mathematics, science, and engineering appropriate to the degree discipline
2. An ability to design and conduct experiments, as well as to analyze and interpret data
3. An ability to design a system, component, or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability
4. An ability to function on multi-disciplinary teams
5. An ability to identify, formulate, and solve engineering problems
6. An understanding of professional and ethical responsibility
7. An ability to communicate effectively
8. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public
9. An ability to recognize the need for, and to engage in life-long learning
10. An ability to stay abreast of contemporary issues
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline
12. An ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes