

**THE UNIVERSITY OF HONG KONG
FACULTY OF ENGINEERING**

Bachelor of Engineering (BEng) Degree: Curriculum Level Learning Outcomes

Curriculum Level Outcomes	University Educational Aims
<p>Curriculum-level Intended Learning Outcome 1.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • an ability to apply knowledge of mathematics, science, and engineering appropriate to the degree discipline • an ability to design and conduct experiments, as well as to analyze and interpret data • an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline • an ability to recognize the need for, and to engage in life-long learning • an ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations 	<p>University Educational Aim 1.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in pursuit of academic/professional excellence, critical intellectual enquiry and life-long learning
<p>Curriculum-level Intended Learning Outcome 2.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • 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 • an ability to identify, formulate and solve engineering problems 	<p>University Educational Aim 2.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in tackling novel situations and ill-defined problems
<p>Curriculum-level Intended Learning Outcome 3.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • 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 • an ability to understand professional and ethical responsibility 	<p>University Educational Aim 3.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in critical self-reflection,

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	greater understanding of others, and upholding personal and professional ethics
<p>Curriculum-level Intended Learning Outcome 4.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • an ability to stay abreast of contemporary issues • an ability to understand professional and ethical responsibility • 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 	<p>University Educational Aim 4.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in intercultural communication and global citizenship
<p>Curriculum-level Intended Learning Outcome 5.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • an ability to function on multi-disciplinary teams • an ability to communicate effectively 	<p>University Educational Aim 5.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in collaboration and communication
<p>Curriculum-level Intended Learning Outcome 6.</p> <p>Upon successful completion of the curriculum, students should be able to possess:</p> <ul style="list-style-type: none"> • 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 • 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 	<p>University Educational Aim 6.</p> <ul style="list-style-type: none"> • Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in leadership and advocacy for the improvement of the human condition