

THE UNIVERSITY OF HONG KONG
FACULTY OF ENGINEERING
Department of Computer Science

Bachelor of Engineering in Computer Science [BEng(CompSc)]: Curriculum Level Learning Outcomes

Curriculum Level Outcomes	University Educational Aims
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>(a) apply knowledge of computing and mathematics appropriate to the programme outcomes and to the discipline</p> <p>(b) apply knowledge of a computing specialization, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models</p> <p>(c) analyze a problem, and identify and define the computing requirements appropriate to its solution</p> <p>(d) design, implement, and evaluate a computer-based system, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations</p> <p>(i) recognize the need for and an ability to engage in continuing professional development</p> <p>(j) use current techniques, skills, and tools necessary for computing practice with an understanding of the limitations</p>	<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>Upon successful completion of the curriculum, students should be able to:</p> <p>(c) analyze a problem, and identify and define the computing requirements appropriate to its solution</p> <p>(j) use current techniques, skills, and tools necessary for computing practice with an understanding of the limitations</p>	<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>Upon successful completion of the curriculum, students should be able to:</p> <p>(f) demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities</p> <p>(h) analyze the local and global impact of computing on individuals, organizations, and society</p>	<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

	<p>designed to enable our students to develop their capabilities in critical self-reflection, greater understanding of others, and upholding personal and professional ethics</p>
<p>Upon successful completion of the curriculum, students should be able to: (f) demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities (g) communicate effectively with a range of audiences (h) analyze the local and global impact of computing on individuals, organizations, and society</p>	<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>Upon successful completion of the curriculum, students should be able to: (e) function effectively on teams to accomplish a common goal (g) communicate effectively with a range of audiences</p>	<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 communication and collaboration
<p>Upon successful completion of the curriculum, students should be able to: (d) design, implement, and evaluate a computer-based system, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations (e) function effectively on teams to accomplish a common goal (h) analyze the local and global impact of computing on individuals, organizations, and society</p>	<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