

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

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

<b>Curriculum Level Outcomes</b>	<b>University Educational Aims</b>
<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><b>University Educational Aim 1.</b></p> <ul style="list-style-type: none"> <li>• Pursuit of academic/professional excellence, critical intellectual inquiry and life-long learning</li> </ul>
<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><b>University Educational Aim 2.</b></p> <ul style="list-style-type: none"> <li>• Tackling novel situations and ill-defined problems</li> </ul>

<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><b>University Educational Aim 3.</b></p> <ul style="list-style-type: none"> <li>• Critical self-reflection, greater understanding of others, and upholding personal and professional ethics</li> </ul>
<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>(g) communicate effectively with a range of audiences</p> <p>(h) analyze the local and global impact of computing on individuals, organizations, and society</p>	<p><b>University Educational Aim 4.</b></p> <ul style="list-style-type: none"> <li>• Intercultural communication, and global citizenship</li> </ul>
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>(e) function effectively on teams to accomplish a common goal</p> <p>(g) communicate effectively with a range of audiences</p>	<p><b>University Educational Aim 5.</b></p> <ul style="list-style-type: none"> <li>• Communication and collaboration</li> </ul>
<p>Upon successful completion of the curriculum, students should be able to:</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>(e) function effectively on teams to accomplish a common goal</p> <p>(h) analyze the local and global impact of computing on individuals, organizations, and society</p>	<p><b>University Educational Aim 6.</b></p> <ul style="list-style-type: none"> <li>• Leadership and advocacy for the improvement of the human condition</li> </ul>