

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] Cybersecurity

[Course Code] COMP 4634

[No. of Credits] 3 credits

[Any pre-/co-requisites]

The course requires an understanding of operating systems, networking protocols, and a basic understanding of programming languages. Programming projects will be done primarily in C and JavaScript, but other languages may be needed.

COMP 1029 Programming Bridging Course, COMP 3531 Operating System or any equivalent courses

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Course Description

This course covers principles of cybersecurity, including the basics of system security, hardware security, web security, network security, ML security, and LLM security. We show concrete examples of diverse security issues when these principles are violated. We then discuss techniques to detect, mitigate and prevent potential security issues.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
In-class participation	5%
In-class quizzes	5%
Assignments	40%
Midterm exam	20%
Final exam	30%

Required Texts and Materials

[Optional] Additional Resources

Information Security: Principles and Practice

Introduction to Computer Security