

COMP 2711 – Discrete Mathematical Tools for Computer Science

School:	School of Engineering
Subject Area:	Computer Science and Engineering
Course Credit:	4
Instructor:	TAI Chiew Lan
Pre-requisite/co-requisite:	<u>Details Here</u>

Notes:

- The syllabi provided here is for reference only and may be subject to changes and adjustments as determined by the course instructors.

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] Discrete Mathematical Tools for Computer Science

[Course Code] COMP2711

[No. of Credits] 3

[Any pre-/co-requisites] Prerequisite(s): A passing grade in AL Pure Mathematics/AL Applied Mathematics; OR level 3 or above in HKDSE Mathematics Extended Module M1/M2; Corequisite(s): (For students without prerequisites) MATH 1012 OR MATH 1013 OR MATH 1014 OR MATH 1020 OR MATH 1023 OR MATH 1024; Exclusion(s): COMP 2711H, MATH 2343

Name: Kenneth Wai-Ting LEUNG

Email: kwtleung@cse.ust.hk

Course Description

Basic concepts in discrete mathematics needed for the study of computer science: enumeration techniques, basic number theory, logic and proofs, recursion and recurrences, probability theory and graph theory. The approach of this course is specifically computer science application oriented.

Assessments:

Assessment Task	Contribution to Overall Course grade (%)
Homework	20%
In-Class Exercises	10%
Midterm Exam	25%
Final Examination	45%

Required Texts and Materials

N/A

[Optional] Additional Resources

N/A