

**The Hong Kong University of Science and Technology**

**UG Course Syllabus (Spring 2025-26)**

**Course Title:** Internet Computing

**Course Code:** COMP 4021

**No. of Credits:** 3

**Prerequisite(s):** COMP 2012 OR COMP 2012H

**Course Instructor**

**Name:** LAM, Gibson

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**Course Description**

Technologies and standards for World Wide Web (WWW), user interfaces and browsers, authoring tools, Internet protocols, Internet servers, database connectivity, robots, search engines, server-side programming, client-side programming, security and privacy, recent advances.

**Intended Learning Outcomes (ILOs)**

By the end of this course, students should be able to:

1. Write HTML and related display coding, including CSS.
2. Implement browser-based programming using the JavaScript language and related libraries such as jQuery.
3. Identify XML and related techniques, including DOM handling.
4. Install and describe the operation of a server such as Apache.
5. Identify the most common HTTP instructions and their methods of client-server interaction, including cookies.
6. Develop server-side code in an appropriate language such as PHP.

**Assessment and Grading**

This course will be assessed using criterion-referencing and grades will not be assigned using a curve.

**Assessments:**

Assessment Task	Contribution to Overall Course Grade (%)
Labs x 6	24%
Group project	16%
Final examination	60%

## Mapping of Course ILOs to Assessment Tasks

Assessed Task	Mapped ILOs	Explanation
Labs 1-4	ILOs 1-3	The first four labs mainly focus on assessing the student's ability to understand and apply front-end design methodologies and techniques, including layout and visualization design (ILO 1), browser-side logic implementation with JavaScript (ILO 2), and DOM handling (ILO 3).
Labs 5-6	ILOs 4-6	The last two labs focus on the design of server-side applications and their interaction with the browser. These labs involve a basic understanding of the operation of commercial servers (ILO 4), the working principles of the HTTP process (ILO 5), and server-side coding (ILO 6).
Group project	ILOs 1-6	The group project involves the development a web-based game application from scratch. It requires both browser-side design (ILOs 1-3) and server-side development (ILOs 4-6).
Final examination	ILOs 1-3, 5 and 6	The exam assesses the students' understanding of browser-side and server-side programming skills, as well as the students' ability to interpret sample code (ILOs 1, 2, 3, 5 and 6).

## Grading Rubrics

Detailed grading scheme for each lab and group project will be provided in the lab and project descriptions and specifications.

## Final Grade Descriptors:

Grades	Short Description	Elaboration on subject grading description
A	Excellent performance	Demonstrates a comprehensive grasp of subject matter, expertise in problem-solving, and significant creativity in thinking. Exhibits a high capacity for scholarship and collaboration, going beyond core requirements to achieve learning goals.
B	Good performance	Shows good knowledge and understanding of the main subject matter, competence in problem-solving, and the ability to analyze and evaluate issues. Displays high motivation to learn and the ability to work effectively with others.
C	Satisfactory performance	Possesses adequate knowledge of core subject matter, competence in dealing with familiar problems, and some capacity for analysis and critical thinking. Shows persistence and effort to achieve broadly defined learning goals.
D	Marginal pass	Has threshold knowledge of core subject matter, potential to achieve key professional skills, and the ability to make basic judgments. Benefits from the course and has the potential to develop in the discipline.
F	Fail	Demonstrates insufficient understanding of the subject matter and lacks the necessary problem-solving skills. Shows limited ability to think critically or analytically and exhibits minimal effort towards achieving learning goals. Does not meet the threshold requirements for professional practice or development in the discipline.

**Course AI Policy**

Gen AI tools can be used for lab and projects, but students must follow their requirements. Gen AI is not allowed for the exam.

**Communication and Feedback**

Assessment marks for individual assessed tasks will be communicated via Canvas within two weeks of submission. Feedback on assignments will include detailed scores in various tasks and their grading criteria. Students who have further questions about the feedback including marks should consult the instructor within five working days after the feedback is received.

**Resubmission Policy**

Resubmission is not permitted for the course.

**Required Texts and Materials**

N/A

**Academic Integrity**

Students are expected to adhere to the university's academic integrity policy. Students are expected to uphold HKUST's Academic Honor Code and to maintain the highest standards of academic integrity. The University has zero tolerance of academic misconduct. Please refer to [Academic Integrity | HKUST – Academic Registry](#) for the University's definition of plagiarism and ways to avoid cheating and plagiarism.

**Additional Resources**

N/A