# ELEC 1200 – A System View of Communications: from Signals to Packets

| | |
|---|---|
| **School:** | **School of Engineering** |
| **Subject Area:** | **Electronic and Computer Engineering** |
| **Course Credit:** | **4** |
| **Instructor:** | **GUAN Isabel** |
| **Pre-requisite/co-requisite:** | **Details Here** |

***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**

A System View of Communication: From Signals to Packets

ELEC1200

4 Credits

Co-requisites: (COMP1021 OR COMP1022P OR COMP1023) AND (MATH 1003 OR MATH 1014 OR MATH 1020 OR MATH 1024)

**Name:** Prof Ross MURCH

**Email:** eermurch@ust.hk

**Course Description**

Have you ever wondered what technologies go into your mobile phone or a WiFi hotspot? Through hands on work with a simple but fully functional wireless communication system, you will understand the basic engineering tools used and tradeoffs encountered in the design of these systems. This course is centered on weekly laboratories, each designed to introduce an important concept in the design of these systems. The lab sessions are supported by two one-hour lectures and a tutorial that introduces the concepts for the next laboratory, as well as reviewing and expanding the concepts learned in the previous laboratory.

**Assessments:**

| Assessment Task | Contribution to Overall Course grade (%) |
|---|---|
| Lab | 25% |
| Homework | 10% |
| Midterm Exam | 25% |
| Final Exam | 40% |

**Required Texts and Materials**

No required text.

Reference Book:

(F) Frenzel, Louis E, "Principles of electronic communication systems." 5th Edition, McGraw-Hill, 2023 (ebook).

(OWN) Alan V. Oppenheim, Alan S. Willsky and S. H. Nawab, Signals and Systems, 2nd Ed., Prentice Hall, 1997

**Additional Resources**

NA