

CS2105

An *Awesome* Introduction to Computer Networks

Course Admin



Department of Computer Science
School of Computing

Lecturers



Dr. [Zhou Lifeng](#)

Teaches lectures 1 - 7

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Teaches lectures 8 - 12

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Teaching Assistants



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Assignment coordinator

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... and several tutorial tutors to be introduced later.

What is CS2105 About?

- ❖ Discussion of fundamental **concepts** and **principles** behind computer networking
 - Using the **Internet** as a case study
- ❖ Introduction to networking tools and networked application programming
 - Choice of programming language: **Python, Java, or C**

What you will **NOT** learn in CS2105

- ❖ How to configure hardware, e.g. router
 - This is covered in [CS3103 Computer Networks Practice](#) - perform hands-on experiments in subnetting, DHCP, DNS, RIP, OSPF, TCP handshaking and congestion mechanism

- ❖ Mobile and wireless networks
 - This is covered in [CS4222 Wireless Networking](#)

Textbook

Computer Networking: A Top-Down Approach: Global Edition, 8/E

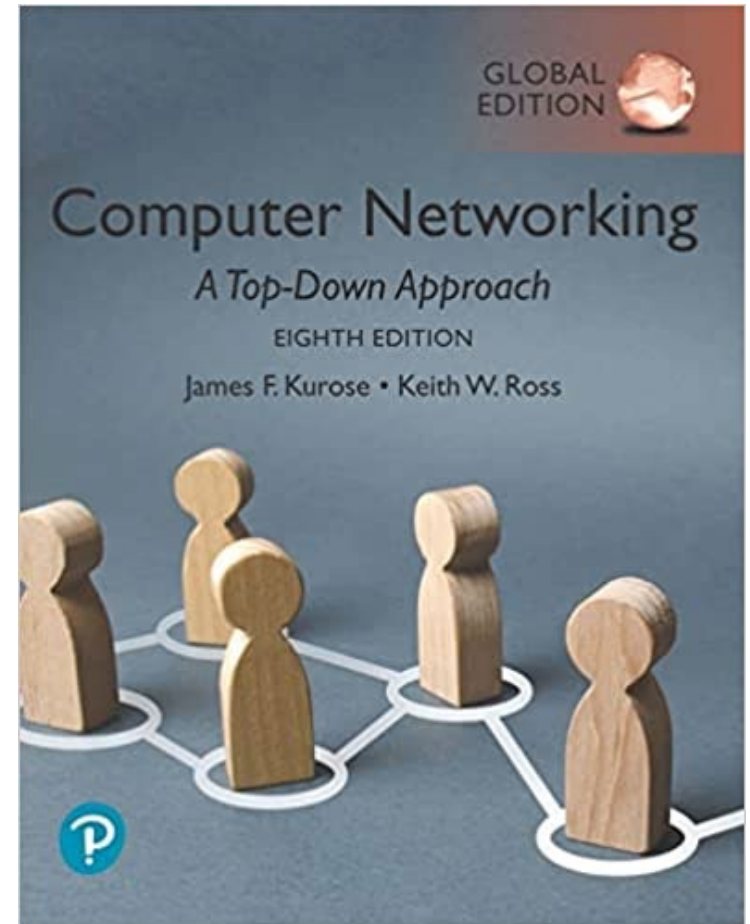
Authors : Kurose
Ross

Publisher : Pearson

ISBN : 9781292405469

Acknowledgement:

Most of the lecture slides are adopted from slides of this textbook.



Available at **NUS Campus bookstore**
(older version also works)

Contact Hours

- ❖ Lectures (**blended learning** style)
 - Video clips (~ 1 hour) will be uploaded previous weekend.
 - Lecture time will be used for discussion (< 40 minutes).
 - **No lecture in week 8** (reserved for midterm assessment)
- ❖ Tutorials
 - Start from week 3.
 - Will be conducted in COM3 01-21
 - 1 hour per session
- ❖ Discuss on forum or email the teaching team, if you have questions.

Assessments (tentative)



❖ CA (50%)

- Tutorial attendance and participation - 5%
- Individual programming assignments - 20%
- Midterm test (week 8 lecture time: Mon, 3 Oct 2022, 2-4pm) - 25%
 - MCQs
 - In MPSH

❖ Final Exam (50%)

- Mon, 28 Nov 2022, 5-7pm

Notes and Tips

❖ Why CS2105 can be **easy**

- You use and interact with the Internet constantly
- Many of the concepts are intuitive and based on very practical design considerations
- There are very few equations!

❖ Why CS2105 can be **tough**

- Many concepts are covered
- Programming assignments
 - “Best-effort” technical support from a team of tutors