

Introduction to Computer Science Spring 2012

Instructor:

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Textbook:

J. G. Brookshear, Computer Science: An Overview, 11th Ed., Addison Wesley, 2012.

Outline:

- Fundamentals of computer architecture (2/22 ~ 3/23)
 - Introduction
 - Data storage
 - Data manipulation
- Operating systems and network (3/26 ~ 4/13)
 - Operating systems
 - Networking and the Internet
- *Midterm exam* (4/18)
- Software and software development (4/23 ~ 5/18)
 - Algorithms
 - Programming languages
 - Software engineering
- Data organization and visualization (5/23 ~ 6/1)
 - Data abstractions
 - Database systems
 - Computer Graphics
- Potential of machines (6/6 ~ 6/15)
 - Theory of computation
 - Artificial intelligence
- *Final exam* (6/20)

Evaluations:

Grading: class performance (15%), HW projects (30%), midterm (25%), and final (30%)

Class website: <http://www.cs.nctu.edu.tw/~cjtsai/courses/ics/>