

程式語言 Programming Languages (705 20100)

Spring 2009 (updated 2009-03-18)

Place and Time

Room 103 in Management Building II, Wednesday 14:20 – 17:20.

Course Web Site

<http://www.iis.sinica.edu.tw/~trc/public/courses/Spring2009/>

Instructor

莊庭瑞 (中央研究院 資訊科學研究所 副研究員)

Tyng-Ruey Chuang (Associate Research Fellow, Institute of Information Science, Academia Sinica)

E-mail: trc@iis.sinica.edu.tw, Website: <http://www.iis.sinica.edu.tw/~trc/>

Office hour: Tuesday 8:10 – 10:00 at Room 716 in Management Building I.

Office phone numbers: 02-3366-1200 ext. 20 (Tuesday 8-10 am only), 02-2788-3799 ext. 1608 (Academia Sinica)

Teaching Assistant

李偉誠。研究室：管理學院一號館五樓 503B 實驗室。

E-mail: r97725019@ntu.edu.tw, Website: <http://www.im.ntu.edu.tw/~b93045/>

Schedule (subject to adjustment)

02/18 Introduction (1), Computability (2).

02/25 Lisp: Functions, Recursions, and Lists (3).

03/04 Guest lecturer: Chin-Lung Chang. JavaScript.

03/11 Fundamentals (4)

03/18 The Algol Family and ML (5)

03/25 Type Systems and Type Inference (6)

04/01 Scope, Functions, and Storage Management (7)

04/08 Control in Sequential Languages (8)

04/15 *mid-term examination*

04/22 Data Abstraction and Modularity (9)

04/29 Concepts in Object-Oriented Languages (10)

05/06 History of Objects: Simula and Smalltalk (11)

05/13 Objects and Run-Time Efficiency: C++ (12)

05/20 Portability and Safety: Java (13)

05/27 Concurrent and Distributed Programming (14)

06/03 The Logic Programming Paradigm and Prolog (15)

06/10 Other Topics

06/17 *final examination*

Textbook

John C. Mitchell. *Concepts in Programming Languages*. Cambridge University Press, 2003. ISBN: 0521780985.

Errata: <http://theory.stanford.edu/people/jcm/books/cpl-errata.html> .

Prof. Mitchell's slides: <http://www.stanford.edu/class/cs242/slides/2007/index.html> .

Grade

Homework (50%) and examination (50%).