CS46K Programming Languages

Structure and Interpretation of Computer Programs

Syllabus

WELCOME TO CPSC 46K COURSE

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IEEE SENIOR MEMBER

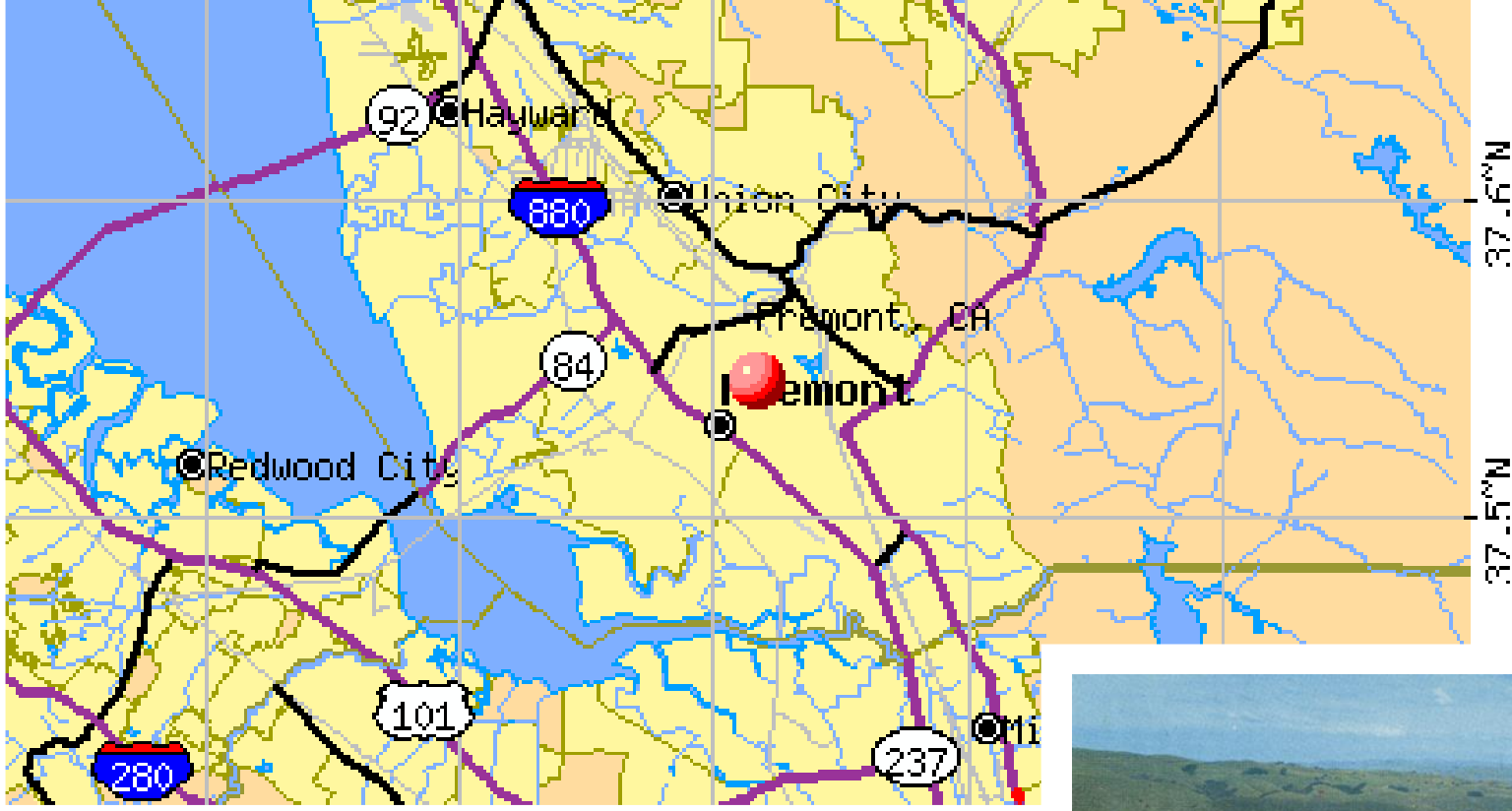
Eric Chou, Ph.D.

IEEE Senior Member
CSTA Member
USAT/AAU Coach

IEEE

USC

National Taiwan University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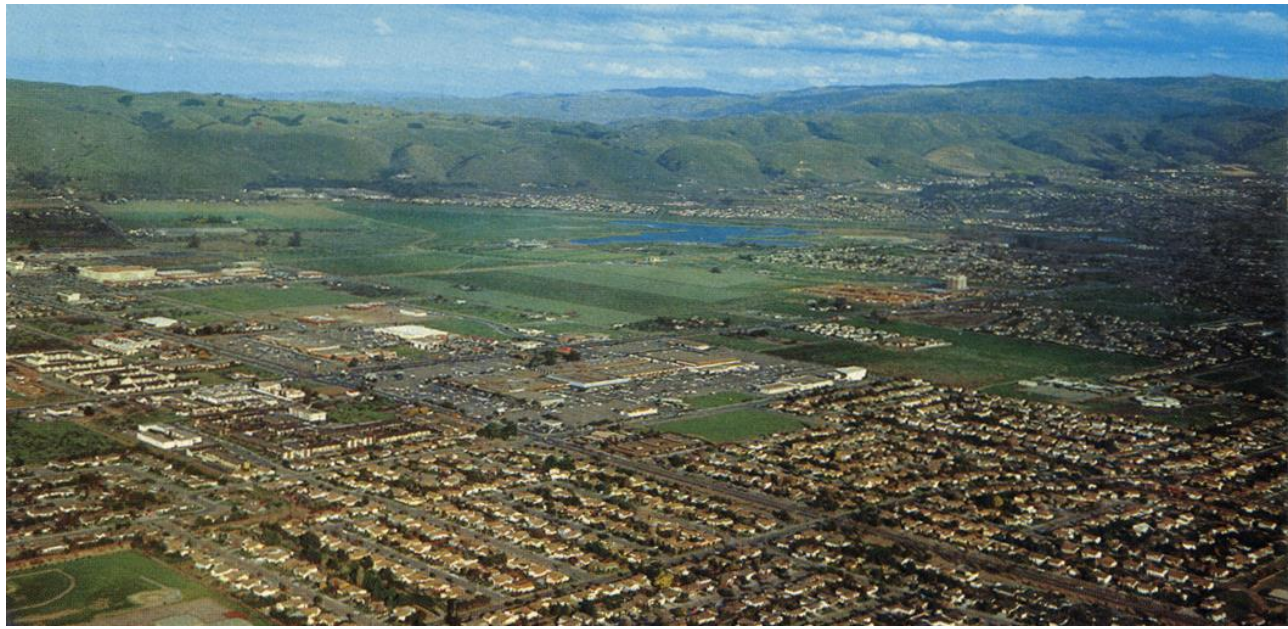


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WORLD TOUR
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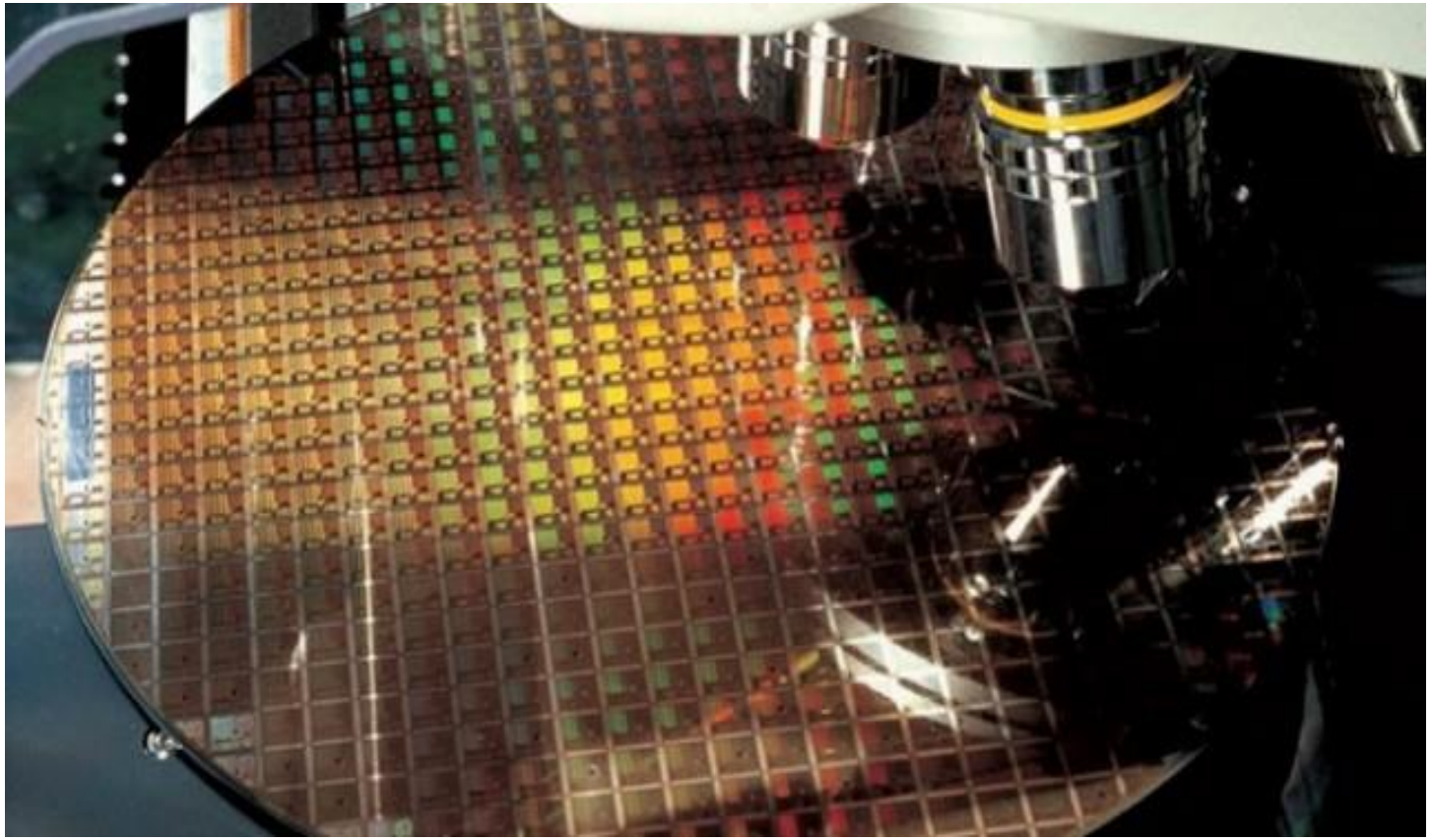
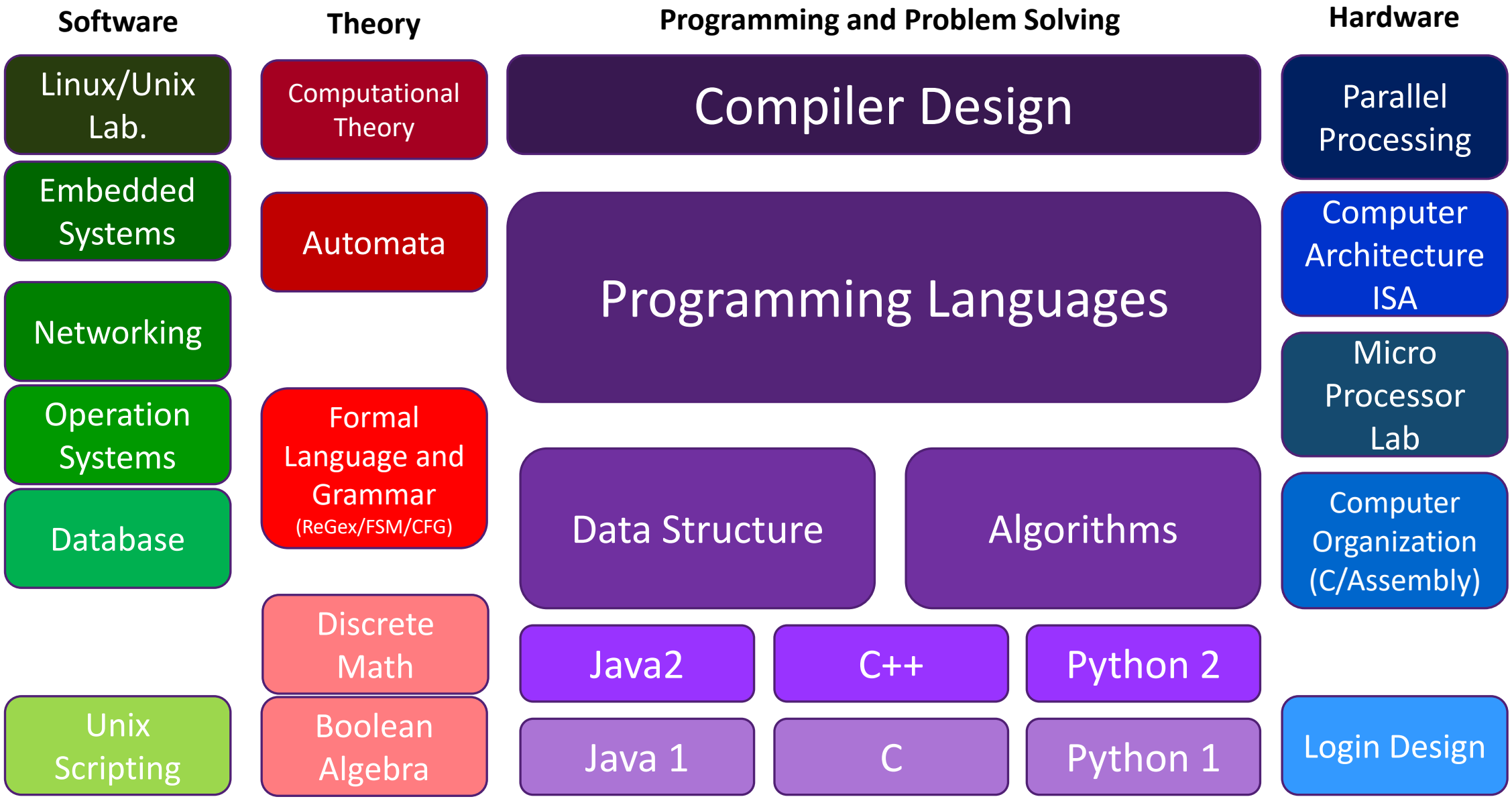


How Programming Languages course is connected to other courses (Core CS)?



How is this course organized?

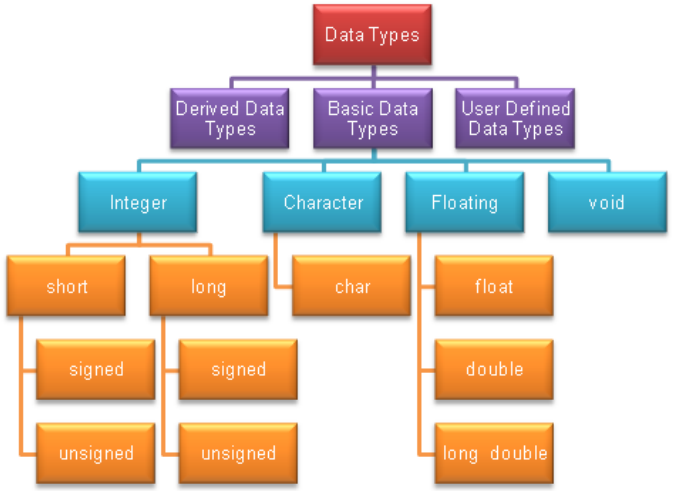
1

Unit 1: Fundamentals

2

3

Unit 2:Data Type and Memory Model



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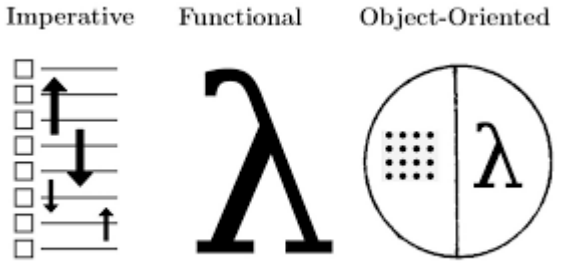
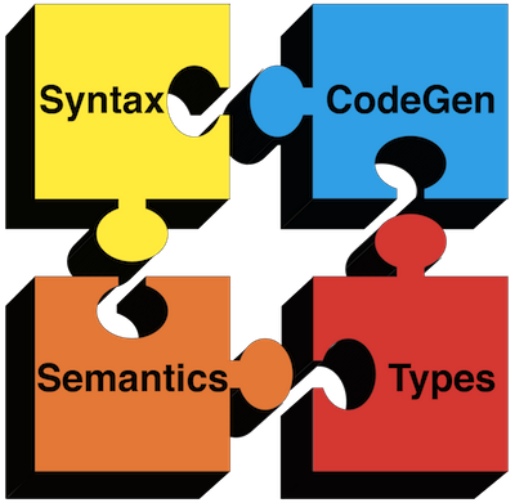
Unit3: Programming Paradigm



Unit4: Language Interpretation



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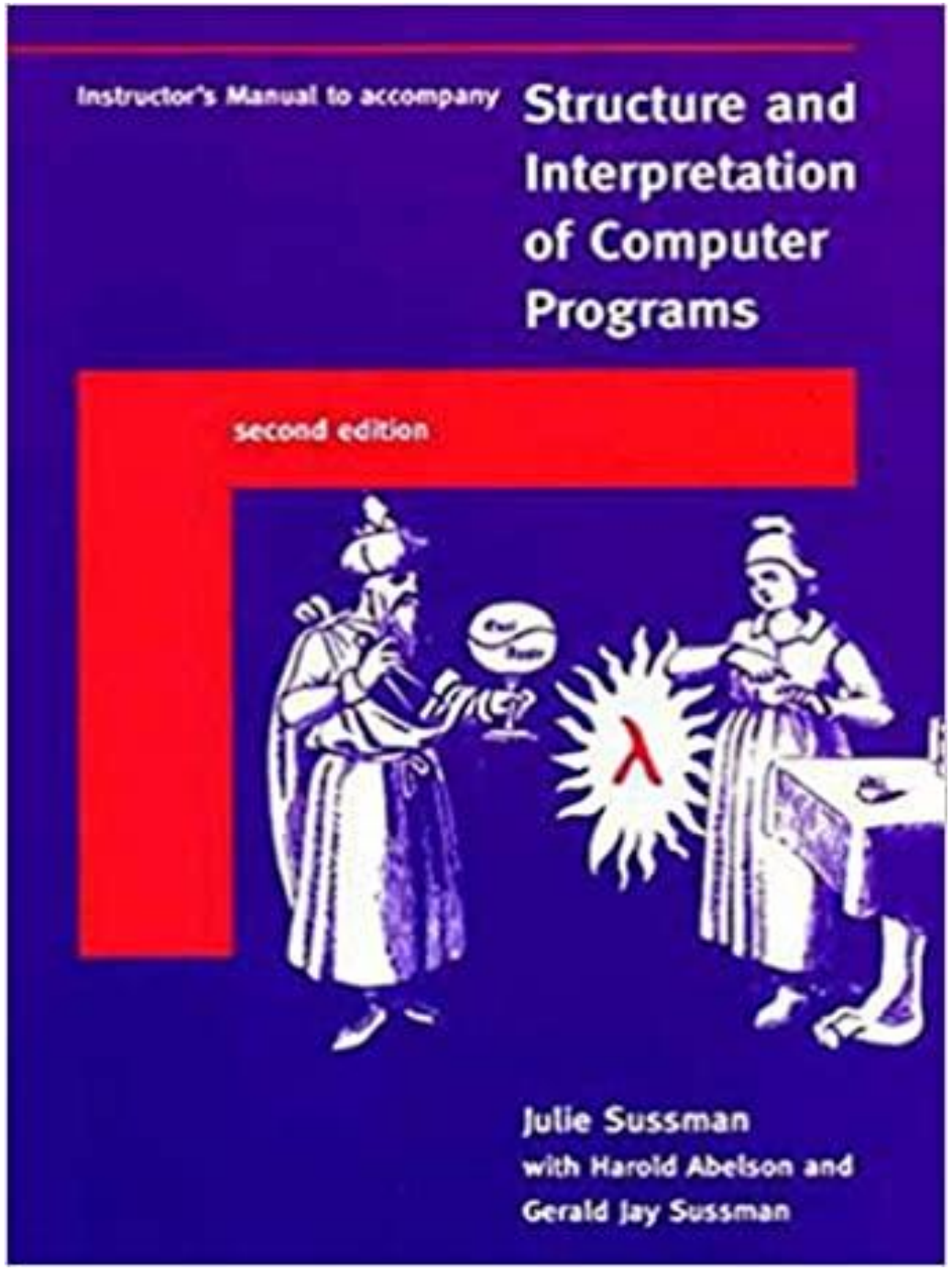
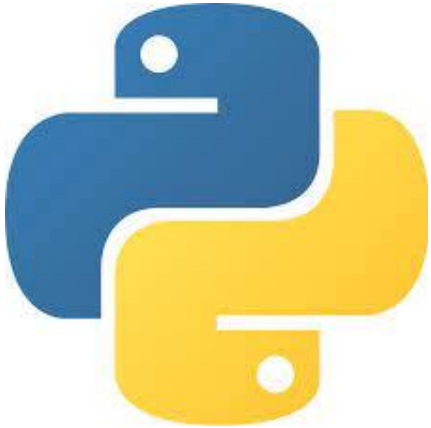
Structure and Interpretation of Computer Program 2nd Edition

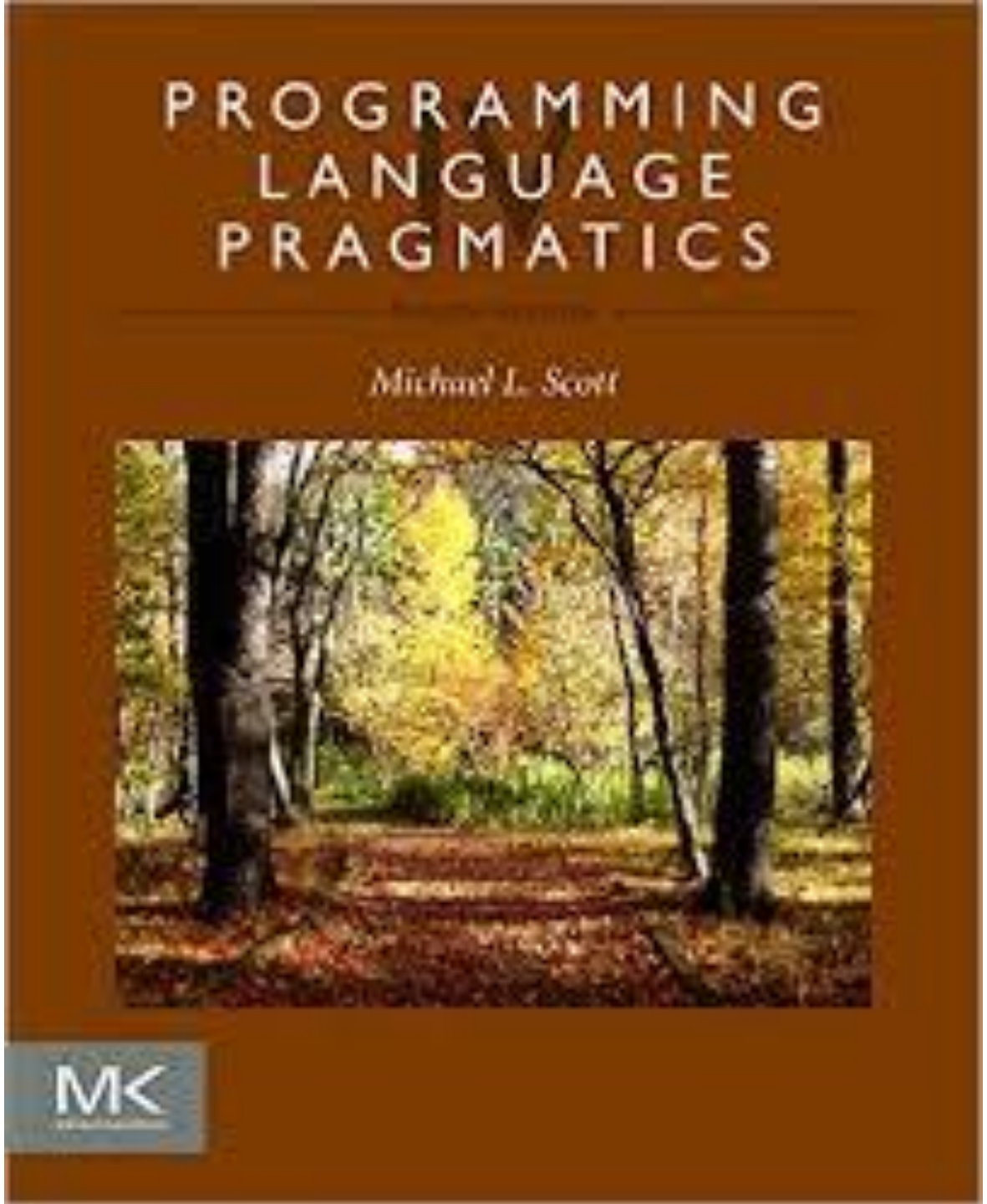
By Harold Abelson, Gerald Jay Sussman, Julie Sussman

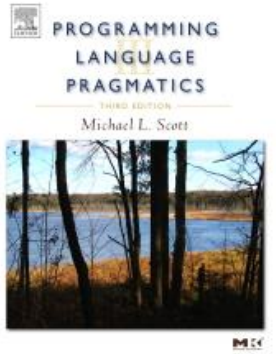


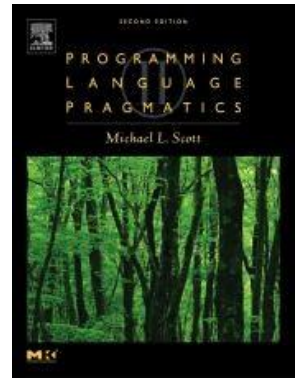


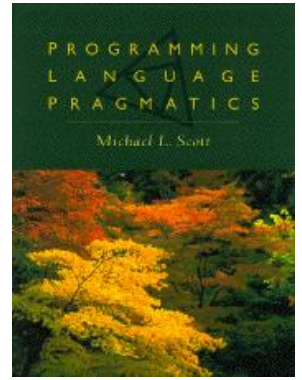
Programming Language Pragmatics 4th Edition

By Michael L. Scott









CPSC 46000 Course Schedule 2021 - Session 003					
Date	**Topic**	**Quiz**	**Assignment**	**Discussion**	**Project**
W1-01/10-01/16	Chapter 1 Introduction	200 pts		DB1-40 pts DB2-20 pts	
W2-01/17-01/23	Chapter 2 Data Types and Type Systems		150 pts	20 pts	
W3-01/24-01.30	Chapter 3 Name, Scope, Binding and Environment	200 pts		20 pts	
W4-01/31-02/06	Chapter 4 Imperative Programming (Programming Paradigm)		150 pts	20 pts	Project 1 Due 200 pts
W5-02/07-02/13	Chapter 5A Object-Oriented Programming - Class Design (Programming Paradigm)	200 pts		20 pts	
W6-02/14-02/20	Chapter 5B Object-Oriented Programming - Class to Class Relationship (Programming Paradigm)		150 pts	20 pts	
W7-02/21-02/27	Chapter 6A Functional Programming - Basic Theory (Programming Paradigm)	200 pts		20 pts	
W8-02/28-03/06	Chapter 6B Functional Programming – Recursion and Tree (Programming Paradigm)		150 pts	20 pts	
W9-03/07-03/13	Chapter 7: Functional Programming - Scheme Language (Programming Paradigm)	200 pts		20 pts	Project 2 Due 300 pts
W10-03/14-03/20	Chapter 8A Lexical Analysis – Tokenization		150 pts	20 pts	Proposal 100 pts
W11-03/21-03/27	Chapter 8B Lexical Analysis – Scanner Design	200 pts		20 pts	
W12-03/28-04/03	Chapter 9A Syntax Analysis – Context Free Grammar		150 pts	20 pts	
W13-04/04-04/10	Chapter 9B Syntax Analysis – Parser Design	200 pts		20 pts	
W14-04/11-04/17	Chapter 10A Interpreter Design - Calculator Design		150 pts	20 pts	
W15-04/18-04/24	Chapter 10B Interpreter Design – Read Evaluate Print Loop	200 pts		20 pts	
W16-04/25-04/29	Chapter 10C Scheme Interpreter Design		150 pts	DB1-20 pts DB2-40 pts	Final Term Project Report 700 pts
Class Participation	500 pts (Professor will provide this grade based on your class attendance record, discussion involvement, and many other factors.				
Total	500 pts	1600 pts	1200 pts	400 pts	1300 pts
Grand Total (Maximum Base Points)	5000 pts (May Change) All grade will be calculated based on the base points of 4500 pts				

Grading: Accumulated Point System

- We use an Accumulated Points System for grading.
- For example, quiz 1 is worth of 100 pts with 10 bonus pts. Quiz 2-1 is worth of 50 pts with 5 bonus pts. Term project is worth of 500 pts with 100 bonus pts, and something like that for all assignments.
- At the end of the semester, we sum up all your total points, including bonus points. We divide your total pts with the maximum base pts and get a percentage score. Use the percentage score to decide your course grade. Your total pts may be higher than the maximum base pts due to the bonus pts.

Score	Grade
92.95% and above	A
89.95% to 92.94%	A-
86.95% to 89.94%	B+
82.95% to 86.94'%	B
79.95% to 82.94%	B-
76.95% to 79.94%	C+
72.95% to 76.94%	C
69.95% to 72.94%	C-
59.95% to 69.94%	D
59.94% and below	F