Computer Science — Information Technology (CSIT) 542

Discrete Structures for Computer Science, Spring 2019, W PM, Class # 21566

Syllabus for Bob Hart's class

Course:

This course, Discrete Structures for Computer Science, is concerned with mathematical topics that are important in computer science and in programming.

The course involves doing some programming (in C++) and some math.

Instructor:

Bob Hart

Office: CoSci 1501

Phone: 818/710-4455 from off campus

4455 from on campus

E-mail: hartrr@piercecollege.edu

Student Consultation Hours:

MW 3:30 — 5:30 PM

R 3:00 — 5:20 PM

Class: Lab (not Lecture) 5:40 PM— 7:45 CoSci 1507

Lecture (not Lab) 7:55 PM — 10:00 CoSci 1511

Textbook

There is no required textbook for this class; we will use resources from the Internet.

Grading:

[80-100] A

[68-80) B

[56-68) C

[44-56) D

[0-44) F

Homework & Lab Exercises 40%

Most of your homework will be turned in to the Canvas site.

I do not accept late homework for credit.

Tests & Quizzes: 60%

All tests are cumulative. Tests will include your writing C++ programs in the computer lab.

Course Outline (subject to real-time revision)

2/6/19W Week 1: Combinations & Permutations

2/13/19W Week 2: Sequences & Series

2/20/19W Week 3: Sets

2/27/19W Week 4: Relations & Functions

3/6/19W Week 5: Relations & Functions

3/13/19W Week 6: Boolean algebra

3/20/19W Week 7: Propositional Logic

3/27/19W Week 8: Midterm

4/3/19W Week 9: Holiday

4/10/19W Week 10: Predicate Logic

4/17/19W Week 11: Proofs

4/24/19W Week 12: Graphs & Trees: representations

5/1/19W Week 13: Graphs & Trees: algorithms

5/8/19W Week 14: Probability

5/15/19W Week 15: Conditional Probability

5/22/19W Week 16: Miscellany, Review

5/29/19W Week 17: Final