

Computer Science

at Simon's Rock College

SYLLABUS

CMPT242 Computer Science I: Programming

Fall 2012

Classes: Fisher 112, TR 12:15-1:40

Instructor: Paul Shields, Fisher 111, (413) 243-0651

Email: pshields@simons-rock.edu

Office Hours: T 1:50-3:15, R 1:50-3:15, and by appt.

Web Site: <http://cs.simons-rock.edu/cmpt242/>

Tutors: [Harrison Gregg](#), [Jody Leonard](#), [Erik Elbieh](#), [David Ernst](#) (ThinkTank)

Text

Introduction to Programming in Java, Robert Sedgewick and Kevin Wayne

Description

This course provides an introduction to fundamental concepts of computer science, both as a prelude to further study in the discipline and to serve broader educational goals. Focus is on learning the principles of object-oriented programming and design, including the study of basic data types and control structures, objects, classes, arrays, polymorphism and recursion. We will

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use the Java language.

Objectives

- 1) to gain a sense for the nature of computer science, its characteristic problems, and the tools used to address these problems.
- 2) to develop proficiency at object-oriented design and coding.
- 3) to gain confidence in learning languages.
- 4) to strengthen the capacity to work at a higher levels of abstraction with regard to complex systems and algorithms.

Assignments

There will be assignments roughly every week or two. They will often include programming projects in Java. Since writing programs always tends to be more time-consuming than one anticipates, I urge you to start early and allow more time than you think is needed. This has the added benefit of allowing you to ask questions in class about any problems encountered. Late assignments will be penalized one letter grade per day late.

Attendance

The normal college policy on attendance will be followed. 2 absences will result in a warning, 3 or more in possible suspension from the course.

Grading

Assignments 90%, Quizzes and class participation 10%

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Calendar

CMPT250 Computer Organization

Fall 2012

August

28 Chapter 1, Abstraction and Technology

30 Boolean Algebra (handout)

September

4

6

11

13

18 Chapter 2 and Appendix A: MIPS Assembly Language

20

25

27

October

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4

FALL BREAK

16

18 Chapter 3, Computer Arithmetic

23

25

30 Chapter 4, Measuring Performance

November

1

6 Chapter 5, Appendix B: Designing a Processor

8

13

15

THANKSGIVING BREAK

27 Chapter 6, Pipelining

29

December

4

6 Presentations

11 Last Day of Class

13 Reading Day

17 All work due by noon on Monday.

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