Meetings: MWF 12:00–12:30, Jepson G30
Office Hours: T 14:00–15:00, W 15:00–16:00, or by appointment
Instructor: Barry Lawson
223 Jepson Hall
blawson@richmond.edu

Overview: This course is a continuation of the first semester of SMART CS. As in the first semester, we will explore computer science as a discipline — discovering accurate solutions to interesting problems that have real-world impact, and representing these solutions in a precise way so that computers can assist with solving the problems.

In this second semester, we will transition from Python to Java, initially revisiting topics from last semester, such as flow control structures, string processing, and simple data structures. We will then move on to more advanced concepts including object-oriented programming, recursion, search, and sorting.

Texts:
The following texts are available free of charge, either directly from the author or via the UR Library's Safari Books Online subscription. You may access the texts by clicking the title below (in an electronic form of this PDF) or via links on the course Web page. (If you are trying to access Safari Books Online from off-campus, you will need to install and use VPN.)

- Textbook: Java For Everyone: Late Objects (C. Horstmann, Wiley)
- Think Python: How To Think Like A Computer Scientist A. Downey

Assignments: This semester will also be “about doing”. Accordingly, the assignments will consist of regular homework assignments, regular short quizzes, and a few occasional longer quizzes. Because the format for, and structure of, this course is brand new this year, the frequency and type of assignments may change. The goal, after all, is for you to learn, and we’ll be working on this together along the way!

Web Page and Email: I will use the course Web page and email for assignment-related information. It is your responsibility to check both frequently.

[http://www.mathcs.richmond.edu/~blawson/smartcs/](http://www.mathcs.richmond.edu/~blawson/smartcs/)

Attendance Policy:
- You are expected to attend each class period for its duration. If you must miss a class or lab, you are responsible for any associated material. If there is a class that you must miss, please inform me in advance.
- Any student with an excessive number of absences is subject to a failing grade of V.

Collaborative Work:
- Unless I indicate otherwise on a specific assignment, your homework assignments may, and should, be discussed with others in this course, but are subject to the empty hands policy:
  You may freely discuss ideas with other students, but each student must leave the discussion without any written or otherwise recorded material.
  Any manifestation of copying another student’s work for your own (whether digital, hand-written, oral, etc.) is not permitted — this includes, for example, looking at another student’s implementation and then writing “your own” version of that implementation.

Special Notes:
If you are allowed academic accommodations, or if your desire to observe a religious holiday presents a conflict with class activities, please contact me as soon as possible.

Important Dates:
Spring Break: Sat 10 Mar – Sun 18 Mar
Final Exam: Wed 02 May 09:00–12:00