

Intro to Programming

- 1. Elements of Programming
- 2. Functions
- 3. OOP
- 4. Data Structures

COMPUTER SCIENCE

- 5. Theory of Computing
- 6. A Computing Machine
- 7. Building a Computer

BEYOND

- 8. Systems
- 9. Scientific Computation

RELATED BOOKSITES





WEB RESOURCES

FAQ

Data

Code

https://introcs.cs.princeton.edu/java/90scientific

This page provides information about online lectures and lecture slides for lectures are appropriate for use by instructors as the basis for a "flipped"

Flipped classroom. If you are an an instructor teaching introductory conveekly cadence, as follows:

- Each week, send an email to all students in the class that briefly defrom this booksite).
- Students watch the lecture videos at their own pace, do the readir
- Schedule a weekly "class meeting" for discussion of the material, re

This is just one suggestion—this material can support many different tead

Important note: A common mistake in teaching a flipped class is to add to students for success on programming assignments and exams. If an inst reading, most students will do so. Class meetings then can involve interawith potential exam questions is an excellent activity.

Self-study. An effective way to learn the material on your own is to watc exercises in the book or on the booksite on your own. If you get stuck or looking at the solutions there.

9.1	FI	oating	Point

- 9.2 Symbolic Methods
- 9.3 Numerical Integration
- 9.4 Differential Equations
- 9.5 Linear Algebra
- 9.6 Optimization
- 9.7 Data Analysis
- 9.8 Simulation

The lecture videos are available for purchase through be bored; if it is too fast, you are likely to get lost. A lectures are available in .pdf format by clicking the

logue—A Simple Machine.
☐ This lecture intro
☐ The story motivates the study of computer science
☐ the course.

program in Java using either virtual terminals or a program develop