



Computer Science 523 Advanced Programming

The College of Saint Rose
Summer 2014

Topic Notes: Introduction and Overview

Welcome to Advanced Programming!

Why Take This Course?

In this course, you will become a more sophisticated programmer and problem solver, as you learn about more advanced programming concepts and techniques.

Along the way, you will

- hone your problem solving skills,
- gain experience in programming in general, Java in particular,
- learn how to implement some fundamental algorithms and data structures in Java,
- learn how to design large programs (in an object-oriented way) so that it is easy to modify them

We will do very little with graphics and animations, instead choosing to focus on the relatively simple textual interface and basic graphical user interfaces often used by advanced programmers. Your additional programming experience will allow you to understand and make use of the extensive base of reusable code, Java and otherwise, that is available to today's programmers, even though we will use only a limited subset of those tools here.