

# Computer Science 501 Data Structures & Algorithms

The College of Saint Rose Fall 2013

## Lab 1: Conway's Day of the Week Calculator

Due: 6:00 PM, Wednesday, September 4, 2013

This week's lab exercise is intended to bring you up-to-speed or back up-to-speed, as the case may be, with Java programming. You may discuss the lab with your classmates and offer each other some help, but everyone's work for submission must be their own.

#### Lab Program

Write the program for the lab exercise at the end of Chapter 1 of Bailey. Use a single Java source file Date.java. The main method required by step 4 of the procedure might normally be more appropriate in a separate class, but keep it in the Date class here for simplicity.

Don't forget to answer the thought questions as well. Please put the answers to these in a comment at the top of your Java program.

#### **Submission**

Before 6:00 PM, Wednesday, September 4, 2013, submit your Java program for grading. There are two things you need to do to complete the submission: (i) upload a copy of your Java program (the .java file only) using Submission Box at http://sb.teresco.org under assignment "Conway", and (ii) print and turn in a hard copy of your program.

Don't forget to check your programs for compliance with the Style Guide for CSC 501 Programs

### Grading

Grading Breakdown	
Basic Date class	5 points
Method to compute day of week	5 points
Generation of valid random dates	4 points
main method to play Conway's game	4 points
Program documentation	4 points
Style and formatting	3 points
Thought Questions	5 points