

Syllabus Template 2020-2021



South Portland, Maine 04106

Academic Department

Title: Principles of Computer Science

Catalog Number: CSCI 110

Credit Hours: 4

Total Contact Hours: 60

Lecture (or Lab): Lecture & Lab

Instructor: Keith Sawyer

Office Hours: ZOOM after class and by appt.

Contact Information:

ksawyer@smccme.edu 207-831-8640

Course Syllabus

Course Description

This course will teach you how to design and write computer algorithms to solve a variety of problems using the Java programming language. Topics include primitive data types and operations in Java, control statements, methods, arrays and object-oriented concepts such as classes and encapsulation. These topics are designed to provide you with tools that are useful when encountering computers in today's workplace and to enhance your problem-solving and logical reasoning abilities. **Prerequisite:** Successful completion of MATH 050 or higher or placement into a math course at or above MATH 145

Course Objectives

Upon successful completion of this course, the student will be able to:

- Create variables to hold values during program execution.
- Describe representation of data in the computer.
- Correctly sequence operations to solve computable problems.
- Correctly use loops and decision structures.
- Use arrays to solve appropriate problems.
- Create methods to perform specialized tasks needed to solve problems.
- Write complete computer programs in the Java language which correctly solve assigned problems
- Troubleshoot programs of their own and those provided by the instructor

Course Topics:

1. Introduction to Java
2. Variables / Assignments
3. Branches
4. Loops
5. Arrays
6. User-Defined Methods
7. Objects and Classes
8. Input / Output

Course Requirements

The course consists of 5 Programming Projects, 8 sets of Lab Assignments, and 3 examinations.

Student Evaluation and Grading

5 Projects	20%
8 Lab Sets	15%
2 Preliminary Exams	30%
1 Final Exam	25%
Attendance	10%

Text, Tools and Supplies

The Textbook will be *Programming in Java with zyLabs*. The text will be available online. Note: some course material is not covered in the textbook but will be fully explained in class.

You will need access to a personal computer or laptop to join the ZOOM meetings and to complete the weekly assignments. The software required is free to download but the student is responsible for the installation. Versions are available for Windows, Apple, and Linux computers.

Attendance Policy

Attendance on time for each class is expected. Classes will be conducted via ZOOM in Brightspace and the student must attend a meeting to be counted as present. If you have a valid excuse, such as a doctor's appointment, email the instructor in advance of the meeting and you may be excused. Students missing 3 consecutive meetings without communicating with the instructor or missing a total of 6 class meetings (the equivalent of 3 weeks of the course) and having a failing grade will be dropped from the course. If you are dropped, you should withdraw from the course before the last day to withdraw to prevent the 'AF' from becoming an 'F'.

End-of-Course Evaluation

Students complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal. Students can access the course evaluations beginning one week before the end of classes. The deadline for submission of evaluations occurs Monday at 5 p.m. following the last day of the class. You will receive an e-mail to your student e-mail account when course evaluations are available.

ADA Statement

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call (207) 741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the Disability Services Coordinator, Sandra Lynham, who can be reached at 741-5923. Further information about services for students with disabilities and the accommodation process is available upon request at this number. Course policies about online testing are modified to suit each individual's accommodations.

The Learning Commons:

The library, tutoring and writing centers, and reference/research assistance (typically located on the second floor of South Portland's Campus Center and in the Midcoast's LL Bean Learning Commons and Health Science Center) will be fully available online during the fall 2020 semester.

Here you can find free academic support through individually scheduled and drop in, online tutoring. You can also find information literacy/research librarians, and professional academic strategy/planning mentoring online. While the physical space of the Learning Commons will not be available at this time, we can also work with you to set up zoom classrooms for small group study. Services are offered by appointment or as drop-in assistance.

To access services:

- Visit My Learning in My Maine Guide or
- Select the "tutoring needed" button if it appears inside your Brightspace course.

Whether On Site or Online, students have consistently reported that the Learning Commons is a friendly, risk-free, and helpful place to seek academic support. It has also been shown that those who make use of the Learning Commons do better in a course than those who do not. We strongly encourage you to take advantage of this valuable and enjoyable resource.

SMCC Pay-for-Print Policy

Each semester students receive a \$20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The College's pay-for-print system monitors printing on all printers (including those in general access labs, library printers, Tutoring Services, Campus Center Lounge and technology labs). Be sure to log OUT of the system when you've finished your printing, to prevent unauthorized access to your account. Students can check the number of pages they have printed by using the Printing Balance tool available on SMCC computers (located in the lower right corner of the screen, near the clock). Departments with work study students who need to print documents for the department should contact the Help Desk at 741-5696 to have a special account set up. To find ways to reduce your printing charges, please go to the IT Help tab on My SMCC. If you have questions about the pay-for-printing policy or your printing charges, please contact the Help Desk at 741-5696 or send an e-mail to helpdesk@smccme.edu.

Refunds

Print jobs are eligible for a refund in the event of mechanical or electronic error on the part of the printer, print server, or software used to submit the job. Jobs are not eligible for a refund in cases where the job was not set up correctly, was submitted multiple times, or the student is not satisfied with the result. To request a refund, please bring the offending print to the IT Department in the basement of the Ross Technology Center. Refunds will be granted in the form of a credit to the student's account.

Add-Drop Policy

Students who drop a course during the one-week "add/drop" period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a pro-rated add/drop period. There is no refund for non-attendance.

Withdrawal Policy

A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the Fall and Spring semesters and the second through ninth week of twelve-week Summer courses. This period is pro-rated for shorter-length courses, usually 75 percent of course meeting times; please check with the Registration Office. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Registration Office. This process must be completed either in person or by using SMCC e-mail accounts.

Plagiarism Statement

If an instructor suspects that a student has knowingly committed a violation defined in the Maine Community College System Policy on Student Grade Appeals and Academic Misconduct, the instructor has the authority to review the alleged misconduct and determine the grade that the student should receive for the assignment and the course. The instructor may assign a failing grade for the assignment or course and may require the student to complete additional work for the course. The instructor may consult with the department chair and/or the College's chief academic officer prior to making such decisions. If a

student seeks to challenge an instructor's determination, the student should submit a grade appeal. Grade appeal forms are available in the Advising Office on the South Portland Campus or in the administrative offices in the Learning Commons on the Midcoast Campus. An instructor may also refer the matter to the College's disciplinary officer for review under the procedures of the MCCS Student Code of Conduct

Weekly Assignments

You may collaborate on weekly assignments in and out of class. However, your final answers must be your own. This means that you may work together to solve the problems, but the final answers must be done independently. You may not copy another person's work in whole or in part. Doing so will result in a failing grade for the assignment.

Exams / Quizzes

Communication with anyone but the instructor is not allowed during exams and quizzes. You will be allowed to refer to your textbook, notes, assignments, and any online resources.