

Bridgewater State University

Syllabus

Summer 2019

Comp 152: Computer Science II

General Information

Instructor: Enping Li

Email: eli@bridgew.edu

Phone: 508-531-2349

Office: TBA

Office hours: TBA

Time: 17:00-18:50 Monday-Friday

Semester and Year: May 27th -June 21st 2019

Course page: <http://bridgew.blackboard.com> (BSU Blackboard)

Course Description

Prerequisite: COMP 151

This course continues the coverage of the fundamental concepts of computer programming techniques including recursion, sorting, searching, subprograms and aggregate data types. Software engineering principles including program design, programming style and documentation started in COMP 151 will be continued. Students will write programming projects to demonstrate their mastery of these concepts. *Offered either semester. (Formerly COMP 102)*

Required Textbook(s)

Starting Out with Java: Early Objects (5th Edition), **Author:** Tony Gaddis, **Publisher:** Pearson; 5 edition (March 7, 2014), **ISBN-10:** 0133776743, **ISBN-13:** 978-0133776744

Student Learning Outcomes

After taking this course the student should be able to:

- Design, implement, and test the implementation of “is-a” relationships among objects using a class hierarchy and inheritance
- Design and implement programs that require a) multiple classes and structures b) hierarchies of classes that use inheritance and polymorphism
- Develop code that responds to exception conditions raised during execution
- Design, code, test, and debug simple event-driven programs that respond to user events
Create classes with methods
- Discuss the consequences of software piracy on software developers and the role of relevant enforcement organizations
- Understand the uses and limitations of trademark, copyright and patents for intellectual property protection.

Course Requirements and Evaluation Methods

There will be two midterms and a final exam. Approximately 9 homework assignments will be given throughout the semester.

All programs (source code) must contain comments. Failure in using proper comments will result in reduced grades assigned to the programming assignments. The comments should include the following:

- A comment at the beginning to identify author, date and class.
- A comment at the beginning to explain the purpose of the program. This must be written in standard English.
- For each variable (in the declaration section), a comment must be included stating the purpose/use of the variable unless the variable name implicitly provides this information.
- The purpose of each subroutine must also be stated in standard English at the beginning of the function.
- The code itself shall contain additional comments so that someone can follow the program with the purpose statements and these additional comments. These comments do not have to be written in standard English.

The final grade will be given according to the following tentative weights

Grade Components:

Homework Assignments -----	45%
Midterm1-----	15%
Midterm2-----	15%
Final-----	25%

Grading Scale

90-100:	A (90-92: A-, 93-100: A)
80-89:	B (80-82: B-, 83-86: B, 87-89: B+)
70-79:	C (70-72: C-, 73-76: C, 77-79: C+)
60-69:	D (60-62: D-, 63-66: D, 67-69: D+)
00-59:	F

Course Outline and Schedule

Days	Topic(s)
Day 1-3 27 th -29 th May	Java Basics: I/O statements, assignment statements, variables, data types, main class and method
Day 4-6 30 th May-3 rd June	Decision, Loop Structures, Arrays
Day 7 4 th June	Test 1
Day 8-10 5 th -7 th May	Methods, Classes and Objects
Day 11-13 10 th -12 th June	Class inheritance and polymorphism
Day 14 13 th June	Exception handling
Day 15 14 th June	Test 2
Day 16-18 17 th -19 th June	GUI
Day 19 20 th June	Ethics: software piracy and intellectual property protection
Day 20 21 st June	Final Exam

Progress Report

Students will be provided with their progress in the course at least once prior to the mid-point of the course. The mid-term grade will be determined based on the test and assignments due prior to the mid-term. The tests will be 50% of the mid-term grade and the assignments will be the other 50%.

Late Assignment Policy

Each homework assignment is due at the end of the day (11:59 pm) of the due date. Late assignment will be penalized ***10% per day for each day late*** (excluding weekends and holidays). ***No assignments will be accepted if they are late for more than three days.***

Attendance Policy:

Attendance will be taken during lectures. Unexcused absences in excess of ***15%*** of the scheduled lecture/lab meetings **will result in a one letter grade reduction for the course.** Unexcused absences in excess of ***30%*** of the scheduled lecture/lab meetings **will result in a two letter grade reduction for the course.** Unexcused absences in excess of ***45%*** of the scheduled lecture/lab meetings **will result in a three letter grade reduction for the course.** Students with unusual circumstances should advise the instructor of their situation immediately. Students will be held responsible for all announcements made in class.

Academic Integrity

- Unless an assignment is clearly introduced as a team project, the student should do his/her work independently.
- We have a zero-tolerance policy for cheating. First-time offenses will result in 0 points for the corresponding assignments or tests and a meeting with the professor. Second-time offenses will result in more serious consequences: possibly failing the course and a referral to Academic Affairs Office.

Students are advised that Academic Integrity policy will strictly be enforced in this course. ***“At Bridgewater State University, academic honesty is expected of all students; plagiarism and cheating are not condoned and are subject to academic penalty, which may result in a failure for the course in which the violation took place. A violation may result in a reduced grade, suspension or dismissal from the university.”*** – excerpted from the Academic Integrity and Classroom Conduct policy. The Academic Integrity policy is available at [http://catalog.bridgew.edu/content.php?catoid=7&navoid=486#Academic Integrity and Classroom Conduct](http://catalog.bridgew.edu/content.php?catoid=7&navoid=486#Academic_Integrity_and_Classroom_Conduct).

Classroom Behavior

Behavior conducive for learning is expected in the classroom, which means no excessive talking to other students or sleeping. Also, this includes turning off cell phones and other electronic devices while in class. Electronics devices include laptop computers, unless you are using them to take class notes. If you are using them to take notes you need to get permission from the instructor. Anyone who violates this policy may be asked to leave the classroom for that class period.

Students with special needs:

Any student who due to a documented disability needs special accommodations to participate in class and/or complete assignments should made to the instructor during the add/drop period so that reasonable accommodations can be made. If you have not done so already, please register

with the *Disabilities Resources Office in the Academic Achievement Center*, which is responsible for coordinating accommodations and services for students with disabilities.

Additional Notes

The instructor reserves the right to modify course policies, course schedule, and assignment/project grade weight and due date. All students are expected to be responsible users of the computer systems for this course. If you require accommodation based on disability, please meet with the instructor in the first week of the semester to make sure you are appropriately accommodated.