

Baton Rouge Community College  
Computer Science (Technology) Department  
CSCI 194 Software Design and Programming II  
CSCI 194 Section 01 - CRN: 32476  
SYLLABUS

**INSTRUCTOR:** David L. Sylvester  
247 Cypress Building  
(225) 216-8152  
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**Credit Hours** 3 **Contact Hours** 3

**TEXTBOOK:** Starting Out With C++: From Control Structures through Objects 6<sup>th</sup> Edition.  
Author: Tony Gaddis  
ISBN-13: 978-0-321-54588-6  
ISBN-10: 0-321-54588-5

**MATERIALS:**

- USB Memory Stick (Jump Drive) 512MB or larger
- One scantron
- Regular access to a personal computer system that is Microsoft Windows-based and has an Internet connection.
- Microsoft Visual C++ 2008 Express
- An active e-mail address is required.

**COURSE DESCRIPTION:** Offers a continuation of a disciplined approach to problem solving, program design, algorithms and logic development using a higher level language. Emphasizes the utilization of a language to implement solutions to problems. Intended for computer science majors.

**Prerequisites:** CSCI 193 with a “C” or better.

**Corequisites:** None

**LEARNING OUTCOMES AND ASSESSMENT MEASURES:**

Students who successfully CSCI 194 will be able to:

1. Demonstrate the correct operation of advanced C++ constructs such as Classes, Inheritance, Overloading, Templates and Virtual Functions
2. Use advanced C++ constructs
3. Code, test, and debug their programs with minimal human assistance or supervision
4. Demonstrate an understanding of algorithms that involve recursion and implement those algorithms in a C++ program
5. Describe advanced data structures such as arrays, stacks, queues, and trees
6. Use a combination of algorithms, object oriented design, and C++ constructs to write programs that manipulate these data structures to solve a problem.

**ASSESSMENT:**

All learning outcomes will also be assessed using a combination of computer-based (hands-on) and written examinations, quizzes, project assignment work, in-class labs, and a comprehensive final examination.

**Assessment Measures:**

1. Instructor prepared tests and final exam.
2. Homework assignments where students will answer questions about the material and write problem solutions.
3. C++ programs that:
  - a. Correctly execute using data provided with the assignment
  - b. Correctly execute in a separate test run by the instructor
  - c. Are readable by someone have knowledge of C++ but not necessarily having detailed knowledge of the algorithm. There should be plenty of comments and use of source code formatting to make the logical structure visible.
  - d. Conform to external interface requirements of the assignment. This would include:
    - i. Starting a program
    - ii. How data is entered to the program
    - iii. How results are output
    - iv. Conform to error handling requirements of the assignment.

**GENERAL INFORMATION:**

• **Student Conduct in Class Policy**

Any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the education process relative to subject content will not be tolerated **If after evaluating this classroom environment (instructor, fellow students, lab conditions, etc), you feel uncomfortable in ways that may allow you not to perform as a student in a respectful matter towards other, you are advised to make provisions to find another class setting.**

• **Disability Services**

If any student in this class has a need for accommodations because of a documented disability, please feel free to discuss them with me privately. The college has professionals to guide, counsel, and assist students with disabilities. The Office of Disability Services, located in the Student Center in Room 241, will evaluate and meet with you to discuss your accommodation needs.

- **Safety Note**

BRCC believes that your safety is important in the learning process, and makes every effort to ensure that you are secure while on campus. Please report any activity that appears unusual to the Office of Public Safety at 216-8888. You may also use one of the red telephones in the halls, the blue light pole phones outdoors, or the garage emergency phones on all floors.

Emergency text messaging and e-mail are available so that you are notified of any critical event. All students are strongly encouraged to register for this service by going on the BRCC web page and signing up on the [Be Prepared-Hurricane Link](#) or the [e2 Campus Link](#) for this important free service.

Students should also familiarize themselves with the Emergency Response Plan posted in each classroom and note the Emergency Safe Zones, and exits in each building in which they attend class. If necessary, please exit quickly, and once outside continue to a safe distance away from the building. Take your possessions with you.

- **Chain of Command for Handling Student Issues**

Students are expected to address classroom issues in a timely manner:

1. Talk with the instructor privately
2. If the issue is not resolved, contact the Department Chair
3. Failing to reach a solution will result in the Chair meeting with the Associate Dean
4. If the issue is still not resolved, a discussion between all parties involved will be facilitated by the Dean (student, instructor, chair, dean)

**NOTE – All discussions and actions will be documented throughout the process.**

- **Communication**

All course and college communication will be via BRCC email address. Students are responsible for regularly checking their email. Immediately contact the IT Help Desk in Governor's 229 if there are problems with your email.

- **Plagiarism/Cheating**

Plagiarism is defined as using and passing off as one's own ideas, data, or writings of another or presenting as one's own idea or product derived from an existing source.

Cheating is defined as obtaining information through fraud or deceit: either by the use of unauthorized notes, books, or other sources prior to or during examinations, or by using information under false pretenses. It includes premeditated cheating, which is defined as conscious, pre-planned, deliberate cheating with materials prepared in advance.

Students are expected to uphold the school's standard of conduct relating to academic honesty. Students assume full responsibility for the content and integrity shall be that a student's submitted work, examinations, reports, and projects must be that of the student's own work. Students shall be guilty of violating the honor code if they:

1. Represent the work of others as their own.
2. Use or obtain unauthorized assistance in any academic work.
3. Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
4. Give unauthorized assistance to other students.
5. Misrepresent the content of submitted work.

The penalty for violating the honor code is severe. Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the appropriate authority. If a student is unclear about whether a particular situation may constitute an honor code violation, the student should meet with the instructor to discuss the situation.

For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned projects, assignments, and tasks. In other words, students may not "work together" on graded assignments. Such collaboration constitutes cheating. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. If you need help on an assignment, contact me or bring concerns to class.

- **Student Withdrawal from Course**

Students are responsible for withdrawing from this course on or before the withdrawal deadline as listed in the Academic Calendar. (Check BRCC website)

A faculty member has the right to withdraw a student from a class if that student has accumulated three weeks of unexcused absences in the class. Students will be notified by BRCC email if this done.

- **Makeup Tests/Assignments**

Students are expected to take or submit assignments/tests on the specified due date or as per the instructor's request. **Late work may be submitted only 2 days or following class period; whichever comes first, after specified deadline, and one letter grade will be deducted from all late work.**

Students must have backup copies of assignments at all times. Back up copies will prevent loss of work due to viruses, damaged disks, etc. **All assignments and files must be clearly typed and labeled in their respective folders on your jump drive with the student's name, course name, class time, and specific assignment/project information.**

Makeup tests will only be allowed with a doctor's excuse. In unavoidable situations, a student may pre-arrange to take a regularly scheduled test early or at a later date. **Makeup tests (if permitted) must be taken within 1 week of the original test date.**

1. **It is the student's responsibility to withdraw from a course if he/she fails to meet all course requirements (i.e. passing of all quizzes, assignments, exams, and attendance). Final date to drop classes is **Wednesday, June 8<sup>th</sup>**. The last day to withdraw from courses is **Friday, July 8<sup>th</sup>**.**
2. **Do not Shut Down computers or Print without the Instructor's Permission.**

3. **All computers are to be used for CSCI 194 course work only. No Games.** Students may follow along with the current lesson on the computer. However, no miscellaneous typing on the computers or talking during lecture and instruction time or while another person is reading aloud.
4. **Absolutely no talking during test or exam periods (direct all questions to the instructor). Once the test or exam has started, students that do not have their materials for testing may leave quietly to purchase necessary items.**
5. **No eating, drinking or dipping in the computer labs.**
6. **All cell phones and pagers must be turned off or placed on vibrate. Answer all calls outside of the classroom.**

- **Access to Learning Resources**

Students have access to the BRCC Blackboard on the website or directly on the internet at <http://blackboard.mybrcc.edu> . If you have problems with Blackboard, you may email Ms. Lenora white at [whitel@mybcc.edu](mailto:whitel@mybcc.edu) or you may call for more information at (225) 216-8303.

The Learning Resource Center (LRC) offers Academic Learning support through Smart Thinking (an online service), Remote Access to electronic databases center, Net Library (collection of e-books), and reference questions. You may call (225) 216-8303 for more information.

**CLASS PARTICIPATION and ATTENDANCE:**

Students are expected to arrive to class on time and remain for the entire class period. Students are expected to participate in class throughout the entire class period. Students are required to take roll electronically via [www.syl9.com/194](http://www.syl9.com/194) website each class period. If a student misses 50% or more of a class period, he/she will be considered absent that day. Quizzes will be given at the teacher discretion.

**GRADING SCALE:**

A	90 – 100
B	80 – 89
C	70 – 79
D	60 – 69
F	59 and below
I	Incomplete
W	Withdrawal

**GRADING:**

3 Exams (30%)
Final Exam (20%)
Projects (40%)
Quizzes (5%)
Participation (5%)

***TENTATIVE COURSE OUTLINE***  
***Computer Science 194 – Summer 2011***

**Note: All assignments and test dates will be formally announced.**

Week	Topic
1	Introduction / Chapter 7
2	Chapter 7 / Assignment
3	Chapter 8 / Assignment
4	Chapter 9 / Assignment
5	Test 1 / Chapter 10 / Assignment
6	Chapter 11 / Assignment
7	Chapter 12 / Assignment
8	Test 2 / Chapter 13 / Assignment
9	Chapter 14 / Assignment
10	Test 3 / Chapter 15 / Assignment
11	Chapter 16 / Assignment
12	Chapter 17 / Assignment
13	Test 4 / Chapter 18 / Assignment
14	Chapter 19 / Chapter 20 / Assignment
15	Final Review / Assessment / Final Examination Period

Addendum to Syllabus

To: \_\_\_\_\_  
(Print instructor's name)

From: \_\_\_\_\_  
(Print your name)

Date: \_\_\_\_\_

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I have read the syllabus for CSCI 194. I understand all the requirements, and intend to fulfill them in accordance with the schedule. I also understand that all communication will be through my BRCC email account.

I will regularly check my BRCC email ( `firstname_mi_lastname@mybrcc.edu` ), and will immediately contact the IT Help Desk in Governor's 229 if there are problems with my email.

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Student's Signature