COMP 3150: Programming in C/C++
Fall 2020
Muktadir Chowdhury, Ph.D. Candidate

Contact Information:

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<tr>
<th>Office: 221 Dunn Hall</th>
<th>Department Office: 375 Dunn Hall</th>
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<tbody>
<tr>
<td>Office Phone: (901) 601-9578</td>
<td>Department Phone: (901) 678-5465</td>
</tr>
<tr>
<td>Email: <a href="mailto:mrchwdhr@memphis.edu">mrchwdhr@memphis.edu</a></td>
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Office Hours:
No formal hours. Email me to set up a Zoom meeting in advance.

Lecture Meeting Times/Locations:
Tuesdays and Thursdays, 7:10pm – 8:35pm, Dunn Hall 233
Zoom Link: https://memphis.zoom.us/j/94337533785?pwd=V3F5bzFMTFhXSEpkNiNtUUpLbUgvZz09
Passcode: 3150

Please note that, the first month will be online. If the university decides to return to normal instruction after the first month, then the class will be fully on-ground (no split days, all students will be in the classroom).

Course Description:
COMP 3150: Programming in C/C++
Introduction to C/C++; software development environments; primitive data types, pointer, reference, struct; user defined structures; memory management; control statements; function; file I/O; introduction to object-oriented programming; C++ class; input and output with streams; inheritance, overriding, polymorphism; Standard Template Library. PREREQUISITE: COMP 2150, or permission of instructor.

Course Website:
Class materials (lecture notes, assignments, etc.) and grades will be posted on the eCourseware system at https://elearn.memphis.edu throughout the semester. News and reminders will also be posted here.

Requirement:
Students must have a laptop while attending the class.

Required Textbook:
Evaluation:

Grading Scale:

<table>
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<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>A+</td>
<td>≥ 96%</td>
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<tr>
<td>A</td>
<td>90–95%</td>
</tr>
<tr>
<td>B+</td>
<td>87–89%</td>
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<tr>
<td>B</td>
<td>81–86%</td>
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<tr>
<td>B−</td>
<td>79–80%</td>
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<tr>
<td>C+</td>
<td>77–78%</td>
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<tr>
<td>C</td>
<td>71–76%</td>
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<tr>
<td>C−</td>
<td>69–70%</td>
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<tr>
<td>D+</td>
<td>67–68%</td>
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<tr>
<td>D</td>
<td>60–66%</td>
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<tr>
<td>F</td>
<td>≤ 59%</td>
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Grading:

1. Class Work and Attendance: 13% (26 classes, 0.5 point for each class)
2. Assignments: 40% (10 assignments, 4 points for each assignments)
3. Midterm – Thursday, Oct. 1st, 7:30 pm – 8:30 pm: 22%
4. Final Exam – Thursday, Nov. 19th, 10:30am - 12:30pm: 25%

Late/Makeup Policy:
All assignments are expected to be completed and turned in on schedule. Due dates will be clearly indicated for each assignment. Late assignments are NOT accepted except in extreme circumstances. Likewise, makeup quizzes and exams will be given only under extreme circumstances. If you feel that your circumstances warrant a late work submission or a makeup quiz/exam, get in touch with me as soon as possible. Be prepared to show some kind of documented proof of your situation.

eCourseware Dropbox Policy:
All code submissions should be made through the dropbox on eCourseware unless specifically indicated otherwise. The dropbox will automatically cut off submissions precisely at the deadline. It is your responsibility to submit your work with time to spare, and to double check that your submission made it into the dropbox. “I accidentally submitted the wrong file,” “The dropbox was having technical issues at the last minute,” “I submitted the file but somehow it never made it to the dropbox,” “The dropbox wouldn’t accept my submission because it was 3 seconds late,” and similar statements are NOT valid excuses.

Email:
Please check your University of Memphis email account at least once a day, as that is my primary means of communicating with you outside of class.

Plagiarism/Cheating Policy:
An essential part of learning any skill is getting plenty of practice with it yourself. That said, it’s often helpful if you bounce ideas off other people. I don’t mind if you discuss general solution approaches with other
students. However, the work that you hand in should always be your own. Handing in work that’s identical to
another student’s except minor changes like variable names does NOT count as your own work.

If I determine that you have copied something directly from a book, the Internet, or some other source, you will
receive a failing grade on the assignment and (at my discretion) a failing grade in the course. If I determine that
you have copied another student’s assignment, this will happen to both you and the person from whom you copied.
The incident may also be forwarded to the University Judicial Affairs Office for further disciplinary action. Please
don’t put me in this situation.

Your written work may be submitted to Turnitin.com, or a similar electronic detection method, for an evaluation
of the originality of your ideas and proper use and attribution of sources. As part of this process, you may be
required to submit electronic as well as hard copies of your written work, or be given other instructions to follow.
By taking this course, you agree that all assignments may undergo this review process and that the assignment
may be included as a source document in Turnitin.com's restricted access database solely for the purpose of
detecting plagiarism in such documents. Any assignment not submitted according to the procedures given by the
instructor may be penalized or may not be accepted at all.

Getting Help:
Although I expect your work for this class to be done individually, I encourage you to seek help if you get stuck:

• You can chat with me during the class. I’m very willing to help and try to provide hints without giving
  away the solution.

Student Disabilities
If you have a disability that may require assistance or accommodations, or if you have any questions related to
any accommodation for testing, note taking, reading, etc., please speak with me as soon as possible. You must
contact Disability Resources for Students (http://www.memphis.edu/drs) to officially request such
accommodations / services.

COVID-19 Health and Safety Policy - Masks and Social Distancing
All students, faculty and staff will wear masks in all public spaces, including our classroom (lab) per the COVID-
19 policy.

Student Health
Students who are experiencing symptoms such as sneezing, coughing or a higher than normal temperature should
inform me by email so they can be excused from class and should stay home. Students should contact their health
care provider or the Student Health Center at https://www.memphis.edu/health/. Students who have a positive
COVID-19 test should contact the Dean of Students at deanofstudents@memphis.edu.

Student Accommodations
If and when we return to class, students seeking to remain remote for health or other serious reasons should
discuss their options with me. Students with accessibility issues or with other learning accommodation needs
due to a disability should contact Disability Resources for Students (DRS) to submit an official request for
course accommodations. Contact DRS at 901.678.2880 or at drs@memphis.edu.
(http://www.memphis.edu/drs/index.php)
Student Resources
Students who need additional resources can contact the Dean of Students Office at https://www.memphis.edu/deanofstudents/crisis/index.php.

Topics (tentative)

- Week 1 (Aug.18)  Chp 1-2: Introduction to C Programming
  (Aug.20)  Chp 3: Structured Program Development in C
- Week 2 (Aug.25)  Chp 4: C Program Control
  (Aug.27)  Chp 5: C Functions
  Assignment-1 from Chapter 1 – 5: due on August 30 11:59 PM.
- Week 3 (Sep.01)  Chp 6: C Arrays
  (Sep.03)  Chp 7: C Pointers
  Assignment-2 from Chapter 6 – 7: due on September 6 11:59 PM.
- Week 4. (Sep.08)  Chp 8: C Characters and Strings
  (Sep.10)  Chp 9: C Formatted Input/Output
  Assignment-3 from Chapter 8 – 9: due on August 30 11:59 PM.
- Week 5. (Sep.15)  Chp 10: C Structures, Unions, Bit Manipulation, and Enumerations
  (Sep17)  Chp 11: C File Processing
  Assignment-4 from Chapter 10 – 11: due on September 20 11:59 PM.
- Week 6. (Sep.22)  Chp 12: C Data Structures
  (Sep.24)  Chp 13: C Preprocessor
  Assignment-5 from Chapter 12 – 13: due on September 27 11:59 PM.
- Week 7. (Sep.29)  Review
  (Oct.01)  Midterm Exam
- Week 8. (Oct.06,08)  Chp: 15: C++ as a Better C; Introducing Object Technology
- Week 09. (Oct.13,15) Chp: 16: Introduction to Classes, Objects, and Strings
  Assignment-6 from Chapter 15-16: due on October 18 11:59 PM.
- Week 10. (Oct.20,22) Chp: 17: Classes: A Deeper Look; Throwing Exceptions
  Assignment-7 from Chapter 17: due on October 25 11:59 PM.
• Week 11. (Oct.27,29) Chp: 18: Operator Overloading; Class string Assignment-8 from Chapter 18: due on November 1 11:59 PM.

• Week 12. (Nov.03,05) Chp: 19: Object-Oriented Programming: Inheritance Assignment-9 from Chapter 19: due on November 8 11:59 PM.

• Week 13. (Nov.10,12) Chp: 20: Object-Oriented Programming: Polymorphism Assignment-10 from Chapter 20: due on November 15 11:59 PM.

• Week 14. (Nov.17) Review for Final Exam

(Nov.19) Final Exam