

CSC 1100 – Problem Solving and Programming Course Information – Winter 2018

Course

CSC 1100, Section 3, 3 credits, CRN 22546

Schedule

- 28 sessions
- Tuesdays and Thursdays, 11:30am–12:45pm, Science Hall 2009
- January 9 – April 19 (except March 13 and March 15)
- Final exam is May 1, 10:15am–12:15pm

Instructor

- Dan Ouellette
- E-mail: fx9807@wayne.edu (include “CSC 1100” in the e-mail subject)
- Office: 5057 Woodward Ave, Suite 14200.3
- Office hours:
 - Office hours – Tuesdays and Thursdays, 10am–11am
 - Or by appointment via e-mail
 - Location – Kresge Library, first floor



Grader

- Salwa Badreddine
- E-mail: gb0684@wayne.edu (include “CSC 1100” in the e-mail subject)

Labs

- This course is paired with CSC 1101 – Problem Solving and Programming Laboratory, 1 credit.
- There are four lab sections that meet on Tuesdays and Thursdays:

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- ✓ Section 1, Mouna Subbaiah, gg6144@wayne.edu, 1pm–2:15pm, Science and Engineering Library 73
- ✓ Section 2, Zeyad Hailat, em2203@wayne.edu, 4pm–5:15pm, Science and Engineering Library 50B
- ✓ Section 3, Kawthar Khorassani, fo5178@wayne.edu, 1pm–2:15pm, Science and Engineering Library 50B
- ✓ Section 7, Artem Komarichev, fn9241@wayne.edu, 5:30pm–6:45pm, Science and Engineering Library 73

Description

This course involves problem-solving with algorithms, and their realization as computer programs using a structured, general purpose programming language. It covers data types, operators, expressions, assignment, input and output, selection and repetition control structures; modularity and procedural abstraction using functions with parameters; structured data types, arrays, pointers and strings.

Learning goals

#	CSC 1100 course learning goals
1	Understand the history of programming languages.
2	Become familiar with the basics of C++.
3	Learn to read from the keyboard and files, and write to the screen and files.
4	Use control structures to alter the sequential flow of execution.
5	Use predefined and user-defined functions.
6	Understand the user-defined simple data type (enumeration type), the namespace mechanism of ANSI/ISO Standard C++, and strings (both string data type and C-String).
7	Explore arrays (one- and two-dimensional) and records.
8	Apply simple searching and sorting algorithms.
9	Use pointers to manipulate arrays and to implement dynamic memory allocation.
10	Apply problem-solving strategies to analyze, design, implement, document, and test a software application.

Reference, software, and hardware

Optional reference

- *C++ Programming: From Problem Analysis to Program Design*
 - ✓ Edition: seventh or eighth
 - ✓ Author: DS Malik
- Textbook PowerPoint slides are available in document **Textbook slides** on Blackboard.

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- Textbook code samples are available in document **Textbook code samples** on Blackboard.

Required software

- A C++ software development tool.
- You may use the tool from a campus computer and/or from your computer.
- The recommended tool is Microsoft Visual Studio.
- On any campus computer, Visual Studio is available via **VMware Horizon View Client**, the WSU virtual software environment.
- On your computer, you may use any of the following tools:
 - ✓ Visual Studio
 - Runs on Windows or Mac OS.
 - Is the recommended tool since it will be used during lectures and labs.
 - Is available at apps.eng.wayne.edu/MPStudents/Dreamspark.aspx:
 - 1) Login with your WSU credentials.
 - 2) Click **Developer Tools** on left.
 - 3) For Windows users, select **Visual Studio Community 2017**. For Mac OS users, select **Visual Studio for Mac**.
 - 4) Follow the instructions to install the **Visual Studio** download.
 - ✓ Code::Blocks
 - Runs on Windows, Linux, or Mac OS.
 - Is available at www.codeblocks.org/downloads/26.
 - ✓ Eclipse
 - Runs on Windows, Linux, or Mac OS.
 - Is available at www.eclipse.org/downloads/.
 - ✓ Xcode
 - Runs on Mac OS.
 - Is available at developer.apple.com/xcode/ide/.
 - Requires an Apple ID to download.

Required hardware

- A storage medium for file storage including:
 - ✓ Course files from me.
 - ✓ Your homework files.
- The storage medium may be:
 - ✓ Your personal computer.
 - ✓ A Microsoft OneDrive account.

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- ✓ A Dropbox account.
- ✓ A Google Drive account.
- ✓ Thumb drive.

Blackboard

- Blackboard will be used to:
 - ✓ Make course files available to you.
 - ✓ Receive homework files from you.
- Blackboard login is available at blackboard.wayne.edu.
- The login requires an access ID (six-character code) and password.

Grading

- This lecture is associated with a lab section.
- The lecture and lab sections are graded separately.
- If either is failed, only the failed part must be repeated.
- Homeworks and exams make up your final CSC 1100 grade:

Type (lecture)	Count	Points Per	Points total	Percent
Homework	6	25	150	42%
Midterm exam	1	100	100	29%
Final exam	1	100	100	29%
Total			350	100%

- Labs and attendance make up your final CSC 1101 grade:

Type (lab)	Count	Count after drop	Points Per	Points total	Percent
Lab	22	18	25	450	90%
Attendance	1		50	50	10%
Total				500	100%

Homeworks

- There will be six homework assignments.
- Each one is worth up to 25 points.
- During class, we will discuss assignment material **only after** lecture material is completed.
- Homework files will be available on Blackboard.
- Completed homework files will be submitted via Blackboard. Unless otherwise noted, this will involve submitting **one Microsoft Word document** with your

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name somewhere in the file name. Don't submit the document in other formats (.ODT, .PDF, .PAGES, etc.), only .DOC or DOCX.

- **On-time homework:** a homework is on-time if it is submitted via Blackboard by **11am** on the day it is due.
- **Late homework:** a homework is late if it is submitted via Blackboard between:
 - ✓ 11am on the day it is due, and
 - ✓ Two days later at 11:59pm.

A late homework will be marked down 20%.

- **Too-late homework:** a homework will not be accepted after the late homework period.
- If your homework has corrections, they will be noted on or in your submitted file, and the file will be viewable to you where you submitted it on Blackboard.
- Homework keys will be reviewed the first class session following the late deadline.

Quizzes

- There will be six extra-credit pop quizzes.
- Each one is worth up to four points. Simply taking the quiz earns one point.
- Quizzes are closed-book and completed on paper.
- Completed quizzes will be returned and quiz keys will be reviewed the first class session following the quiz.
- Any unreturned quizzes after that session will be discarded.

Exams

- There will be two exams taken in class on paper.
- Each exam is worth up to 100 points.
- Both exams are closed-book and completed on paper. You may use one side of one 8.5"x11" sheet of paper for notes. **No one can help you during the exam – not me and not your neighbor.**
- All cellular telephones and similar electronic devices must be put away during exams.
- If a student is unable to take an exam on the scheduled exam day, an alternate scheduling of the exam must be arranged **before** that exam takes place.
- Completed midterm exams will be returned and the exam key will be reviewed during a following class session.
- Any unreturned midterm exams after that session will be discarded.
- Completed final exams will **not** be returned.

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Extra credit

- There are two ways to earn extra credit. The following points may be added to those earned from homeworks and exams.
 - 1) For completing pop quizzes. This will earn up to four points per quiz.
 - 2) As indicated on exams. This will earn up to 8 points per exam.
- Maximum extra credit is 40 points (11% of total points).

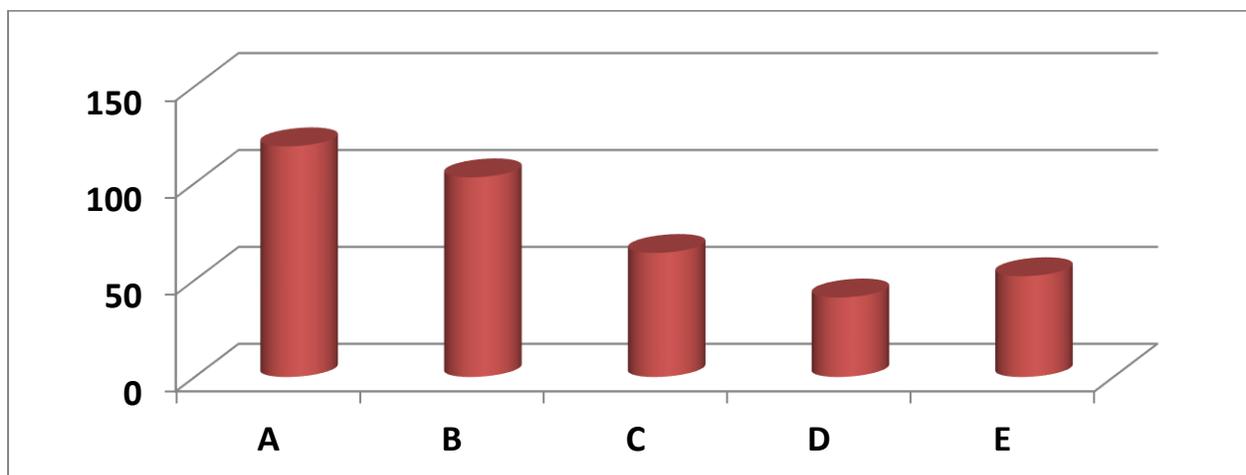
Grading scale

The percentage of points earned on homeworks and exams determines the final course grade.

93% and above	A
90-92%	A-
87-89%	B+
83-86%	B
80-82%	B-
77-79%	C+
73-76%	C
70-72%	C-
67-69%	D+
63-66%	D
60-62%	D-
59% and below	E

Grading history

- Here is the CSC 1100 grading history from the previous three semesters: Fall 2016, Winter 2017, and Fall 2017.



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Current grade

- Since your grade percentage on Blackboard does not include extra credit from the quizzes, it reflects your current minimum grade.
- You can always ask me your current grade.

Protocol within class

- Turn off, or place on vibrate, your cell phone.
- Sit near the door if you will need to leave class during a lecture.
- Do not eat in the classroom.

Individual initiative

- Your grade is your responsibility.
- I am willing to help you with the course material and the homeworks, but **you** must take the initiative to ask.

Academic integrity

- As part of the university policy regarding academic misbehavior, students caught cheating or guilty of plagiarism will receive zero points for the homework or exam.
- See [Academic Integrity](#) for more information.

Religious holidays

Because of the extraordinary variety of religious affiliations of the University student body and staff, the Academic Calendar makes no provisions for religious holidays. However, it is University policy to respect the faith and religious obligations of the individual. Students with classes or examinations that conflict with their religious observances are expected to notify their instructors well in advance so that mutually agreeable alternatives may be worked out.

Student Disabilities Services

- If you have a documented disability that requires accommodations, you will need to register with **Student Disability Services** for coordination of your academic accommodations. Students registered with Student Disability Services and eligible for alternate testing accommodations such as extended test time and/or a distraction-reduced environment should present the required test permit to the professor at least one week in advance of the exam.
- See [Student Disability Services](#) for more information.

Class recordings

Students need prior written permission from the instructor before recording any portion of this class. If permission is granted, the audio and/or video recording is

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to be used only for the student's personal instructional use. Such recordings are not intended for a wider public audience, such as postings to the internet or sharing with others. Students registered with Student Disabilities Services who wish to record class materials must present their specific accommodation to the instructor, who will subsequently comply with the request unless there is some specific reason why they cannot, such as discussion of confidential or protected information.

Emergencies and notifications

- The Wayne State Broadcast Messaging system can send you text messages regarding campus safety.
- To begin receiving these messages, register your cell phone at [Broadcast Messaging](#).

Drop and withdraw dates

- Last day to withdraw is March 25.
- See the [Academic Calendar](#) for more information.