Wichita State University

CS 211 Intro to Programming Fall 2020

- Instructor: Adam Sweeney
- Department: EECS
- Office Location: N/A
- Telephone: N/A
- Email: wsucssweeney@gmail.com
- Preferred Method of Contact: email
- Office Hours: W 5:30 – 6:30 pm
- Classroom Day/Time: TR 5:35 – 6:50 pm
- Lab Day/Time: TR 5:35 – 6:50 pm
- Prerequisites: MATH 111, C- or higher
- Teaching Assistants: Vikas Thammanna, Smitha Haridasan
- TA Contact: vxthammannagowda@shockers.wichita.edu
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- TA Office Hours: TR 11:30 am – 12:30 pm (Vikas)
- M 8:00 – 9:00 am (Smitha)

How to use this syllabus

This syllabus provides you with information specific to this course, and it also provides information about important university policies. This document should be viewed as a course overview; it is not a contract and is subject to change as the semester evolves.

Changes will be announced via Blackboard and during lectures.

Academic Integrity

Students at Wichita State University are expected to uphold high academic standards. WSU will not tolerate a lack of academic integrity. Students are responsible for knowing and following the Student Code of Conduct http://webs.wichita.edu/inaudit/ch8_05.htm and the Student Academic Honesty policy http://webs.wichita.edu/inaudit/ch2_17.htm. When the faculty member determines sanctions are warranted for violations of academic integrity, regardless of severity, the faculty member must report the infraction to the Office of Student Conduct and Community Standards. If you need more information about the process or wish to appeal a decision, please visit https://www.wichita.edu/about/student_conduct/ai.php

I have zero tolerance for academic dishonesty. This means that a first offense results in an F for the course and the student shall be reported as described above.

Course Description

3 Classroom hours; 2 Lab hours. First course in computer programming in a high-level language. Emphasizes analyzing problems, designing solutions and expressing them in the form of a well-structured program using the procedural aspects of C++. Prerequisite: MATH 111. Corequisite: CS 211L.

Measurable Student Learning Outcomes
Upon successful completion of this course, students will be able to:
- Navigate and perform basic file system operations from a Linux CLI environment

- Assess problems, derive an algorithm, and employ the algorithm as a solution using C++

- Understand basic programming concepts and constructs such as loops, arrays, variables, etc., and successfully deploy them in C++ programs

- Execute basic functionalities of git

Required Texts/Readings Textbook
No textbook is required for this course

Other Readings

All books can be purchased from amazon; search using the ISBN13

Stroustrup; Programming: Principles and Practice Using C++ (2nd Edition); ISBN13: 978-0321992789

Spraul; Think Like a Programmer: An Introduction to Creative Problem Solving; ISBN13: 978-1593274245

Shotts Jr.; The Linux Command Line: A Complete Introduction; ISBN13: 978-1593273897

Matthes; Python Crash Course (2nd edition): A Hands-on, Project-based Introduction to Programming; ISBN13: 978-1593279288

Other Equipment/Materials
Students are required to have complete access to a functioning laptop or PC with

internet capabilities. It is strongly recommended that the computer is capable of having a C++ environment installed on it (possible for Windows, Mac, Linux, and many ChromeOS devices). A webcam is preferred but not required.

Please visit this link to ensure you have the baseline hardware and knowledge.

Class Protocol

Attendance: Students are expected to attend lecture and lab

Behavior: Students are expected to behave in a manner that does not create a disruption for other students in the class. Some examples include playing your Switch during lecture, watching a show/movie/livestream during lecture, not silencing your phone and subsequently receiving calls and/or other notifications, trying to hold your own conversation with other classmates, etc.

Participation: Students are expected to participate during lecture. Examples include but are not limited to attempting to answer questions, asking questions seeking clarification, utilizing office hours to seek further clarification, utilizing the lab time to work on assignments, projects, exams, and/or ask questions.

Contact Policy

Although you may attempt to reach me by phone, email communication is always preferred. Feel free to email me any questions or concerns following these guidelines:

- Always use the course name in the subject line of the email
- Remember to sign your name.
- **Always** email me from your WSU email address. Email sent from personal email servers like Gmail, Yahoo, etc., have a tendency to end up in my spam folder, and I never see them. You may also email me through Blackboard via the Email My Instructor tab. I also offer an Ask My Instructor forum on Blackboard which allows common questions to be seen and responded to publicly.
- You should NOT contact me for tech support.
  - Any technical problems involving your computer, or issues regarding file uploading or sharing, should go through the OneStop. You can contact them at 316-978-3909. You can also fill out a request for help form at their website.
  - However, if you have a problem with access or uploading assignments, you *should* let me know before your assignment is due. You will also have to accompany this notification with the file in question, so I can verify that it is completed by the due date/time.

Response Time

To Email and Ask My Instructor Questions: No more than 2 days. After 2 days, assume something happened and reach out again.
Feedback on Assignments: Assignments should be graded no later than 1 week after the due date.

Grading Scale

WSU uses a +/- grading scale for final grades and to calculate grade point averages. In this class, grades are assigned according to the following chart. (Other classes might assign grades differently: Be sure to understand the different grading scales in all of your classes.)

Percentage	Letter Grade	Grade Points	Interpretation
93 – 100	A	4.00	A range denotes excellent performance
90 – 92.9	A-	3.70	
87 – 89.9	B+	3.30	B range denotes good performance
83 – 86.9	B	3.00	
80 – 82.9	B-	2.70	
77 – 79.9	C+	2.30	C range denotes satisfactory performance
73 – 76.9	C	2.00	
70 – 72.9	C-	1.70	
67 – 69.9	D+	1.30	D range denotes unsatisfactory performance
63 – 66.9	D	1.00	
60 – 62.9	D-	0.70	
0 – 59.9	F	0.00	

Weights

The final grade is calculated by applying the following weights to each category:

Category	Weight
Assignments	35%
Lab Exercises	15%
Quizzes	15%
Exams	35%

Assignments

Homework

There will be 10 homework assignments during the semester. They are due 1 week from the day they are assigned.

Lab Exercises

Some lab sessions will have an exercise associated with them. They must be turned in the same day they are assigned.

Late Assignments

Homework assignments are allowed to be submitted up to 3 days late at a penalty of one letter grade (10%) per day.

Example: A student submits an assignment two days late. Under normal grading, they would receive a grade of 88%. Applying the late submission penalty now makes their grade 68% for that assignment.

There are no late submissions allowed for lab exercises.

Missed Assignments and Exams

Normally, assignments cannot be made up. If an emergency arises, those can be handled on a case-by-case basis.

IMPORTANT: Notify your instructor as early as reasonably possible. It is always much easier to come to an agreement if the instructor has prior knowledge or is made aware as early as reasonably possible.

Extra Credit

There will be a few opportunities for extra credit during the semester.

Syllabus Policies and Student Resources

All students should familiarize themselves with the course-related policies and student resources that can be found at: **www.wichita.edu/syllabuspolicies**

These include, but may not be limited to:

Information on:

- COVID-19 conditions
- Important Academic Dates
- Academic Integrity
- Definition of a credit hour
- Video and Audio recording
- Shocker Alert System
- Intellectual Property
- CARE Team
- Counseling and Prevention Services
- Student Health Services

- Heskett Center and Campus Recreation
- Inclusive Excellence and Respect for Diversity
- First Generation Students
- Names and Pronouns
- Students with Disabilities
- Title IX
- Concealed Carry Policy

Very Tentative Schedule

Week	Starting	Topics, Readings, Assignments, Deadlines
1	Aug. 17	Introductions
2	Aug. 24	Problem Solving, C++ basics
3	Aug. 31	Flow of Control / HW1 assigned
4	Sep. 7	Style, arrays (LABOR DAY SEP. 7) / HW2 assigned
5	Sep. 14	Arrays (cont.) / HW3 assigned
6	Sep. 21	Functions / HW4 assigned
7	Sep. 28	General debugging / Midterm Exam assigned
8	Oct. 5	Strings / HW5 assigned
9	Oct. 12	Pointers / HW6 assigned
10	Oct. 19	C++ Standard Library, python / HW7 assigned
11	Oct. 26	Python (cont.), file I/O / HW8 assigned
12	Nov. 2	Structures / HW9 assigned
13	Nov. 9	Classes / HW10 assigned
14	Nov. 16	Separate compilation and make / Extra credit HW assigned
15	Nov. 23	NO CLASSES – Thanksgiving break
16	Nov. 30	Programming principles / Final exam assigned
17	Dec. 7	FINAL EXAM DUE – Dec. 8