

CSE 1222 - Autumn '22 Syllabus



Department of
Computer Science and Engineering

<http://www.cse.ohio-state.edu>

Contact Information

Instructor: **John Wilcox**

Live Meeting: Tuesdays and Thursdays at 11:30 a.m. in DL 113

Office Hours: See “Modules” tab in Carmen

OSU Email address: **wilcox.338@osu.edu**

Course Summary:

Introduction to computer programming in C++ with applications in engineering and the physical sciences; algorithm development; programming lab experience. C++ loops and conditionals, functions, arrays, file input and output and pointers.

Co-requisite:

Math 1151 (previously Math 151) or Math 1161. (No programming or C++ experience required). Not open to students with credit for Engr 1281.01 or Engr 1281.02 or CSE 202.

General Objectives:

To provide the student with the basics of the C++ programming language:

- Be competent with writing simple C++ programs performing familiar numerical computations;
- Be competent with using basic C++ constructs; declarations and various statements including loops and conditionals; C++ functions; C++ arrays;
- Be familiar with using file input and output;
- Be exposed to algorithms;
- Be exposed to pointers;
- Be exposed to the C++ string and vector classes;
- Be exposed to defining C++ classes.

Required Text:

The zyBooks online textbook is **required** for the course and a subscription will cost \$64. You will complete assigned readings, lab assignments, homework assignments, and portions of exams in the online text. Each assigned reading counts towards your final grade and is due by 11:59pm the day after the lecture day (see the course schedule posted on Carmen, as well as the reading assignments in the book). The reading assignment schedule is in the course schedule posted on Carmen. If you purchased a subscription in a previous semester, then email support@zybooks.com to re-activate your subscription for this semester.

Microsoft Teams:

We will use Microsoft Teams as the course discussion board and to make announcements. To access Teams, you first must add yourself to the discussion forum. You can find instructions on how to join the discussion board on the course Modules in Carmen. Please visit the page daily. Feel free to ask and answer questions. Do NOT post solutions (part or whole) to any graded assignment.

Expectations:

You will have work due every week. Attend lectures and complete reading assignments by the due dates and prior to the quiz that covers the related topic. Complete all assigned readings from the zyBooks textbook. Daily, read announcements on Carmen under Announcements, posts and announcements on the Teams discussion board, and your OSU email. Your solutions to ALL graded assignments MUST be entirely your own work.

Grading:

| | |
|-----------------------------------------|-----|
| Online <i>zyBooks</i> textbook readings | 15% |
| Lab Assignments | 17% |
| Projects | 18% |
| Quizzes | 25% |
| Final Exam | 25% |

- You are required to purchase a zyBooks textbook subscription.
- A request to re-grade a graded assignment must be made within a week after the grade has been posted for that assignment. *No re-grades will be honored after this.*
- We typically use the OSU suggested grade scale: (93-100) A; (90-92.999) A-; (87-89.999) B+; (83-86.999) B; (80-82.999) B-; (77-79.999) C+; (73-76.999) C; (70-72.999) C-; (65-69.999) D+; (60-64.999) D; (0-59.999) E
- Grades are neither “curved” nor “bumped up”. *Your final score must reach a grade threshold.*

Live Meetings:

I will meet with you during the regularly scheduled meetings on Tuesday and Thursday in the lecture hall. I will attempt my best to make the class engaging, informative, and helpful. In order to do so, I will require your support in the way of participation and questions. In order to best prepare to do this, please complete the reading assignments before the lecture that introduces them. If I fail in my goal of making class worth your time, please let me know what you would have liked or needed from me to make it worth it. I look forward to getting to know all of you this semester.

The *zyBooks* Textbook Reading Assignments (15% of your final grade):

You must purchase a subscription to the online *zyBooks* textbook during the first week of the semester in order to complete required readings, lab, homework, and portions of exams. Each reading assignment involves reading the material and answering “Participation” and “Challenge” questions. To earn full credit, you must answer all the zyBooks Participation and Challenge questions by 11:59 pm of the day following the lecture. Your first online textbook reading is due by **Wednesday, August 31, 2022**, at 11:59pm. Please see the schedule (available on Carmen) for ALL due dates.

Lab and Homework (35% of your final grade):

You will complete and submit these assignments in your zyBooks subscription. Lab and Homework are programming assignments to help you to prepare for quizzes and exams. These assignments help you practice programming and build your debugging skills. Thus, it is extremely important that you work on these assignments solely **ON YOUR OWN**. A key reason why some students do not perform well on the exams is because they have not accomplished these assignments. Do **NOT** procrastinate on starting these assignments because some of you may need more time to complete them than other students. You may seek help from your instructor and graders during office hours.

Lab assignments are due weekly (typically Wednesday by 11:59pm). Homework will be due approximately every two weeks (typically Friday by 11:59pm). ***Any submission that does not compile will receive a score of zero. Please ensure that your program compiles before you submit your work.***

Late policy – Lab and Homework have a 10% per calendar day penalization. After five days the assignment will receive a zero.

Again, please start these assignments early! Waiting until the last minute to submit your work and missing the deadline will mean you will have to submit your solution late. This is also true if you experience technical issues too close to the deadline.

The Lab and Homework assignments are crucial to help you prepare for the programming portion of an exam. If you do poorly on an assignment, then I highly suggest that you do the assignment again before an exam. You will need to develop programming and debugging skills in order to do well on the programming portion of an exam. This comes from practice with the examples in the course lecture material, reading assignments, and practice with the Lab and Homework assignments.

Quiz (25% of your final grade):

You will complete a 50 minute quiz every Monday found under Carmen “Quizzes”. The quiz will be proctored by Proctorio and/or your grader in the lab meeting. When using Proctorio, your webcam must be pointed at the front of your entire face. Your submission may not be accepted if there is suspicious activity detected. The quiz tests your knowledge of the course Power Point slides on Carmen and lectures. You are only allowed to use the Power Point lecture slides found on Carmen during the quiz. You are **NOT** allowed to use the zyBooks reading material, use personal notes, view any other websites, or use your email. You are not allowed to use any other device during the quiz.

Final Exam (25% of your final grade):

Your Final Exam date and time is already posted by the Registrar prior to the start of the semester. The exam will consist of two parts: short answer and programming. You must practice programming with the Lab and Homework assignments in order to help you prepare for the programming portion of an exam. The quiz may be proctored by Proctorio instead of a human. If so, the web cam must be pointed at the front of your entire face. Your submission may not be accepted if there is suspicious activity detected. You may be allowed to use lecture Power Point slides on Carmen. You are **NOT** allowed to use any other part of zyBooks other than the part that was assigned during the quiz or exam. You are also not allowed to use personal notes, view any other websites, or use your email. In addition, you are not allowed to use any other device during the quiz. You must work alone and not collaborate or discuss the exam with anyone else.

Final Grades:

1. Lab, Homework, quiz, and exam scores will be posted on the Carmen gradebook. Please check that your grades have been entered correctly before your final grade is submitted to the Registrar. The Carmen gradebook calculates your final grade. Please use the grade rubric provided in this syllabus to verify your grade in the course.
2. Requests for re-grades of lab, homework, quizzes, and exams must be made within a week after the graded assignment is handed back to you. *No re-grades are allowed after this time period.*
3. Course policy on assigning final grades:
 - a. Grades are neither “curved” nor “rounded up”
 - b. You will receive a final grade assignment if your point average surpasses a grading scale cut-off. For example, a final score of 89.9 would receive a B+ under the OSU suggested grading scale.
4. You will be evaluated purely on your performance in the course. Final grades are *never* negotiated! You should *never* make a request to your instructor for a particular grade that you “desire”, “prefer”, “need”, “deserve”, etc., under any circumstances!

Office Hours:

I will decide my office hours and location during the first week of class. Once decided, I will communicate this to you through email and/or class announcement. You can seek help with course material and assignments in office hours. *You must come into office hours well prepared with targeted questions and a clear indication that you have made an attempt to study course material and started an assignment on your own* (if you choose to discuss an assignment with an instructor).

Office Hours Rules:

- If you seek help with programming assignments, then you must have started the assignment before you ask for help from an instructor in office hours
- It is **NOT** the responsibility of an instructor to ensure that you “get your assignment completed” by the end of office hours. The quality of the help you will receive is directly proportional to how effectively you have made an attempt to study course material before you walk in.
- Expect that an instructor will *instruct* and not give answers. Instructors will not sit down with you for prolonged periods of time to “walk you through” an assignment nor to do extensive debugging. This is YOUR job. This is especially true when office hours are busy.

***** If you are having much difficulty with the course material and assignments and your needs are not addressed in office hours then I highly suggest that you make a one-on-one appointment with your instructor to have a targeted discussion regarding your issues and receive more help*****

Missing Work:

If you are going to miss an assignment (lab, homework, quiz, or exam) due to extenuating circumstances, then you must inform your instructor once you are aware of the excuse and before the deadline. Waiting to inform your instructor greatly reduces the chance that your request will be accepted. For time conflicts, you must provide verifiable documentation to your instructor as soon as possible. You must contact us when you were first notified of the conflict. You must keep your instructor informed of your status during the situation on a regular basis.

IMPORTANT: We will NOT consider make-up requests for lab, homework, quiz, and exams after the assignment day/time has expired. You have lost the opportunity to receive points for the assignment. Any make-up request because of a non-emergency situation must be received before the due date. Any request because of an emergency must be received as soon as possible – preferably before the due date. The professor reserves the right to deny any make-up request.

An *extenuating circumstance* is usually a medical emergency, hospitalization, death in the family, or being called up for active military duty. All requests will be evaluated on a case-by-case basis according to the nature of the circumstance. A temporary technical issue or power outage is not an extenuating circumstance. Acceptance of any excuse for make-up work is left to the discretion of the instructor.

Quiz: Use the policies above. If the quiz is completed on Carmen, you may need to use Proctorio to complete the quiz in an agreed makeup time.

Lab and Homework: Since you are given at least a week to complete these assignments, extensions or make-ups will only be considered if you need to miss school more than three days. Please start your assignment early to ensure that you will be able to complete it on time if you miss school for three days or less, as you will not receive an extension in this case.

Online zyBooks textbook reading: You cannot make-up the zyBooks required reading assignments.

Final Exam: Missing the Final Exam without prior approval from your instructor due to an accepted excuse will result in a grade of zero for the assignment. The reason for this is that final grades are due shortly after the administration of the Final Exam.

Make-up work for accepted excuses on Lab and Homework must be completed within a week after your return date to school as stated on your documentation. Make-up work for accepted excuses on quizzes and exams must be completed on the day you return to school as stated on your documentation. Any make-up work not completed within these time constraints will be assigned a zero. It is your responsibility to contact your instructor on your return to school in order to complete make-up work. You must keep in close contact with your instructor when you are out of school and keep your instructor fully informed of your status, e.g. by phone or by email with your computer (such as your laptop), cell phone, smart phone, etc.

Students With Disabilities:

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let your instructor know immediately so that we can privately discuss options. To establish reasonable accommodations, I will request that you register with Student Life Disability Services. After registration, provide the SLDS long form for both of us to fill out and you to return to SLDS in a timely fashion. Simply providing letters of accommodations from SLDS will not be enough. **SLDS contact information:** slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

This course requires the use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request the necessary accommodation with your instructor.

- [CarmenCanvas accessibility](#)
- Streaming audio and video

Academic Misconduct:

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understood the university's [Code of Student Conduct](#) and that all students complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the university's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the university's *Code of Student Conduct* is never considered an excuse for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by university rules to report my suspicions to the Committee on Academic Misconduct.

If COAM determines that you have violated the university's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the university.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages ([COAM Home](#))
- *Ten Suggestions for Preserving Academic Integrity* ([Ten Suggestions](#))
- Eight Cardinal Rules of Academic Integrity (<http://www.northwestern.edu/uacc/8cards.html>)

As defined in the University's Code of Student Conduct (Section 3335-23-04), academic misconduct is "any activity which tends to compromise the academic integrity of the institution or subvert the educational process" (<https://oaa.osu.edu/academic-integrity-and-misconduct>) Please be sure to familiarize yourself with the OSU academic misconduct rules and policies which include additional examples and details defining academic misconduct: <https://oaa.osu.edu/academic-integrity-and-misconduct/student-misconduct>. Students who violate the University's policies regarding academic misconduct are stealing academic credit and skewing the grading process against students who are honestly participating in the course. Their actions diminish the value of an academic degree when they falsely represent themselves as competent in a subject matter to their instructor, their peers, and in the workplace.

All graded work (labs, homework, quizzes, and exams) is to be **completed solely by you**: In accordance with Faculty Rule 3335-31-02, alleged violations of academic misconduct will be reported to the Department Chairperson and the Committee on Academic Misconduct (COAM). Cases will be resolved via COAM's hearing processes as described in the University's Code of Student Conduct (<http://studentaffairs.osu.edu/csc/>).

- All graded work must be **ENTIRELY** your own work except for guidance from your instructor, TA, and graders. If you are ill-prepared when completing a graded assignment, then your grade will reflect this.
- Only seek help from your instructor, TA, and graders.
- The use of any third-party sources (e.g., a programmer who is a family member, co-worker, friend, classmates, material found on the internet, etc.) is prohibited when completing your graded work.
- **DO NOT LOOK AT, COPY, or use in any way anyone else's code.**
- **DO NOT SHARE** your work with anyone else in any way.
- **DO NOT** pass files to others in any way. Protect your work!
- **DO NOT** create an opportunity for others to view or otherwise retrieve or take your work. For example, do not make your work available anywhere online. The University is in contact with many websites who will help us identify you if you do so.
- You are only allowed to use C++ syntax and statements from the zyBooks readings, supplementary textbook, course lecture notes, and pre-recorded lecture video. You are not allowed to use C++ syntax and statements that are not covered in the course. This material will receive no credit if used in a graded assignment. In addition, an academic misconduct incident report may be submitted to COAM if the material was retrieved from an outside source. If you need help with a graded assignment, then seek help from your instructor, TA, and/or graders during their office hours.
- Instructors, TAs, and graders will **NOT** write code or debug your code for you, but they can help you develop these skills.
- Do not discuss graded assignments (including exams) with anyone besides your instructor, TA, and graders.
- If you are repeating the course, you may not re-submit work from a previous semester again. This includes submissions for a similar or the same assignment. You must construct a solution from scratch for each assignment.

***** When you write your program solution for any graded assignment, i.e., coding, you must write it solely on your own and have NO contact with anyone else except for what your instructor allows *****

You may discuss a problem at a very high level with another student, but *do not cross the line*. Seek help directly from your instructor if you are concerned about how much you can share. When in doubt, err on the side of caution. ZyBooks keeps a history of your work and compares your submission to that of all other students in the class. This is not a superficial comparison; it can identify similar code even when a student tries to change it. Instructors need to report all cases where they suspect students worked from the same source. The COAM process, though fair, is tedious and stressful, and the consequences can extend far beyond this class. Before using another student's code, or worse, code from an on-line source, think to yourself: is a minor increase in my final grade worth the risk? You will hopefully arrive at the conclusion that it is not.

Technology support:

1. **ETS (Engineering Technology Services) help** - Room 392 Baker Systems; Phone: (614)-688-2828; email: etshelp@osu.edu, website: <https://ets.osu.edu/>.
2. **zyBooks** - Go to the "contact us" page or email: support@zybooks.com
3. **Carmen** - Help: (614)-688-4357; Phone: (614)-688-8743; email: carmen@osu.edu