# CSC-133 :: Remote Course Syllabus

**CSC 133 : Object-Oriented Computer Graphics Programming**

**Fall 2020**

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**Office Hours:** various: Announced weekly on Canvas

**Teaching Assistant:** TBD


**Course Description:**Introduction to computer graphics and to advanced topics in object-oriented (OO) programming. The OO paradigm is used throughout, utilizing computer graphics as the vehicle for solidifying
basic OO concepts, studying the implementation of event-driven systems, and for developing a thorough understanding of advanced OO concepts such as inheritance and polymorphism. Topics include fundamental concepts of object-oriented programming, software design patterns, graphic devices, line and surface drawing, simple 2D representation, and use of User Interface components.

**Prerequisites**: At least a C- grade in both CSC 130 and CSC 131, and full CSC, CPE, or MATH/CSC major status.

**Textbook**: **Object-Oriented Design & Patterns 2nd Edition** by **Cay Horstman** .

Note: The bookstore again messed up regarding the textbook. I have no control over this. For this course, this book is recommended, but not required. If you do decide to get the book, you do not necessarily need a physical copy of the book.

*Handouts, lecture notes, papers and other reading materials may be assigned.*

**Tools:** For this course we will be using **Codename One, a cross platform mobile development framework** . In addition to the library itself, you will need a development environment. I will be using **IntelliJ** and that is what I recommend. You may also use Netbeans or Eclipse if you wish. Codename One requires java. For this course you must have at least JDK11. The reason for this is that I may be providing you with a jars to use for some exercises and they will be compiled with OpenJDK 11. I will not compile them or answer any questions related to earlier versions of the JDK, don't ask. If you have **the latest JDKfrom Oracle** you will be fine. I prefer to use OpenJDK based distributions, but, in some cases, namely using JavaFX, they may be more complicated to setup. More on this later.

**Office Hours:** Office hours will be via zoom and announced weekly in Canvas. For office hours I use the waiting room feature. Consequently, office hours are not a group session. I may limit your time if there are many people waiting. You are free to get back in line, however, and I will address further questions when your turn rolls back around, time permitting. Office hours are not recorded. Because of the online nature of the course I will generally have greater availability for office hours than in a normal semester. Although you are not required to have a webcam, you are required to have a microphone for office hours. Responding to typed questions is excessively slow and inefficient and, consequently, unfair to other students who are waiting.

**Unofficial Discussion Section:** We may have an unofficial discussion section. This will be on an as needed basis and will serve the place that office hours sometimes serve in a normal semester where additional help on a topic or homework questions is provided for a group of students. These sessions will be recorded, however, I may or may not upload the video.

**Course Grading Breakdown:**

| Quizzes | 40% |
|---|---|
| Labs/Projects | 40% |
| Everything else | 20% |

For this course all quizzes will be online and, unless otherwise stated, will be open notes and open book. Because of this you can expect that the content and format will be adjusted to reflect this. There may be other assessments that will be delivered as Canvas quizzes but will fall under the everything else category. For example, a quiz on the syllabus, or a quiz on the prerequisite material may fall under this category.

**General Policies:** The following policies apply to all online classes that I teach. If there is any discrepancy between the general polices below and the specific class policies above, the specific policies take precedence.

**Attendance policy**: As this is an online and primarily asynchronous course, there is no attendance requirement, per se. However, note that almost all of the material will have deadlines of availability. It is your responsibility to keep up with the material. However, **quizzes may be restricted to the normal course synchronous meeting time**. Other quizzes might be available for a longer period of time. It is your responsibility to make sure that you are available during the window. Unexcused absences from quizzes will result in zero grades. I adhere to the strictest interpretation of "unexcused" in the university policy and require and verify all documentation for such absences.

**Makeup Exams:** No makeup exams or quizzes will be given. Note: my quizzes are structured such that it is very unlikely that internet issues will cause problems. Do not automatically assume that claimed "connectivity" issues will allow you to take any quiz more than once.

**Canvas:** Handouts, homework assignments will be available on canvas. See the sections on Homework and Submission Requirements for more detail. I will do my best to keep Canvas updated with your progress. In case of conflict between what canvas reports and what is stated in this syllabus, the syllabus takes precedence.

**Other Online Communication:** All course communication will be via Canvas. Do not send me email regarding this course. You may use the Canvas discussion forum for appropriate questions. You may also send me a Canvas message. I may answer common questions via a post to the discussion forum or an announcement.

**Privacy:** All student submissions must have your name and the last four of your student ID. Do not put your *full* student ID on anything that you submit!

**Homework:** All homework, labs, and quizzes, will be submitted online. Homework submitted on canvas may be graded for correctness, or simply participation, at the instructor's discretion. Failure to submit homework can have a dramatic impact on your grade. Always submit whatever homework that you have completed at the submission deadline. You may receive some high level feedback on canvas, however, if you need specific help with problems then you are *expected* to attend office hours where we can go over the fine details of any particular problem.

**Projects, Labs, and Problem Sets:** Some homework may be given as a project, a lab, or as a problem set. Projects and labs are typically programming projects for most CS classes. Submission

will be online and defined at the time of assignment. Problem sets can be viewed as akin to a take home exam and typically involve fewer but more challenging problems. Unless otherwise specified, you are expected to work alone on projects and problem sets. If assigned, projects and problem sets will be counted in the homework portion of your final grade.

**Academic Integrity:** You are never allowed to work with anyone else at any level on any quiz or exam. *Unless otherwise stated on an assignment*, you are expected to solve the homework on your own using whatever resources that you need to help you understand the problems. You may ask other student to discuss the problem with you, but you **may not** copy their answers. You **may not**use any other person, including tutoring services and/or other professors, or anyone else not enrolled in the course for any help with any part of this course. *No copying is allowed, from any source in all aspects of all work.* For each homework assignment, please list any sources of help (e.g., other texts, web sites). Failure to do so may be considered plagiarism. In practice, grades have a tendency to be strongly related to a student's willingness to complete work on their own, the more work that you complete on your own, the better your grade will likely be. The turnitin integration provided with Canvas may be used for some homework submissions.  Code may be compared using other external tools.

**Late Work:** No late work will be accepted. Deadlines are firm and no work will be accepted after the final submission acceptance deadline.  However, all submissions will have a late grace period that will vary between one and forty seven hours. During this period your grade will be automatically reduced by two  percent per hour. It will not be possible to submit an assignment after the grace period. The grace period is only guaranteed to be at least one hour. If possible, Canvas rounds up, so an assignment that is one second late will be penalized two percent. I will not change this, don't ask. All work must be submitted on canvas through the official submission process and there are no exceptions to this policy whatsoever. **No work will be accepted by email, private Canvas message, or Canvas assignment comment.**

Given this, it behooves you to make sure that you have plenty of time to submit up to the submission deadline. I suggest that you submit at least an hour prior to the deadline.  A better policy would be to submit a day early. This will allow you plenty of time to accommodate any submission difficulty. It is absolutely in your best interest to upload your work in progress on a regular basis. I view this as your part in the **shared  responsibility for managing the difficulties of online learning**. For some assignments, early submission of current progress may be required.

After a deadline has fully elapsed, canvas will not allow you to submit your assignment, even if you are in the middle of a submission. It is 100% your responsibility to make sure that your submission technology works. No exception to this policy will be granted for technology failure that cannot be verified. No effort will be made on my part to validate technology failure that is not university wide in nature. In the past some students have submitted and then failed to verify that their submission was successful. It is 100% your responsibility to verify your submission.

Note, because of the online nature of this course, any accommodation for technology failure will be limited to adjusting the late penalty based on the evidence that you provide. **No extensions will be granted!**  This is important to understand.  You will gain access to the materials through a quiz. That quiz will require you to certify that you have downloaded all necessary materials for the assignment in question. Many students procrastinate and don't download the materials until the last minute.

*I will not extend a deadline because you procrastinated in downloading the materials or failed to upload your work in progress prior to the late deadline.*

**Extra Credit:** There will be no opportunities for extra credit in this course.

**Submission Requirements:** All  homework submissions must be typeset, no exceptions. I no longer accept any handwritten work for any assignment. For all assignments, work and solution should be clearly identified.

For each problem, you must include the section and problem number from the text and you must write the problem as stated in the text. It is not necessary to rewrite large sections of historical or explanatory text. The essence of this requirement is that your homework is a complete document that you are able to study from and that can be read independently of the textbook.

For projects and labs, e.g., code, each assignment will have its own **additional** submission requirements.

***Failure to adhere to the requirements in this section will result in a reduced grade.***

**Grading:**   Most grading is automated and probabilistic. Your score is a function of the number of correct answers weighted by points and/or the number of passed test cases. More subjective assessments, e.g., papers, will use a triage grading method based on several categories. If that applies for this course the rubric will  outlined for each assignment. Graded discussions make use of a Canvas rubric that you can see when a discussion goes live.

**Drops Policy:** Drops are handled in strict accordance with university policy.     Note: If a note from a doctor or supervisor is required, it is not within my purview to evaluate whether or not your letter or reason qualifies as per university policy. You must take your documentation to Student Health and Counseling Services and obtain a letter from them stating that they support your reasons for dropping. See the section below for detailed contact information.

*Do not send me an email or Canvas message with details about your situation.* I do not need to know the details and I want you to maintain your privacy. The only thing that I need from you along with your drop form is a letter from counseling services.

**Incomplete Grade Policy:** In short, I rarely grant an incomplete grade. You must have a documented and compelling reason that is beyond your control for me to consider the request.

**Covid 19 Adjustments:** Note that for the most part there is no change to this syllabus that is specific for Covid 19. If you become ill then you should follow university guidance as detailed below. Accommodations will be made for excused absences as they are in any other semester. You must have documentation as you would for any other illness. In general, as this is an online computer science course, being in quarantine is not sufficient reason for accommodation.

**Health Policy:**  If you are sick, stay home. Notify your instructor. If you are experiencing any COVID-like symptoms (fever, cough, sore throat, muscle aches, loss of smell or taste, nausea, diarrhea, or headache) or have had exposure to someone who has tested positive for COVID contact **Student Health & Counseling Services (SHCS) at 916-278-6461** to receive guidance and/or medical care. You are asked to report any possible COVID related illnesses/exposures to SHCS via this link **COVID-19 Illness/Exposure Report Form**    . Expect a call from SHCS within 24 hours.