CSC-133 :: Course Syllabus A↓

CSC 133 : Object-Oriented Computer Graphics Programming

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Office Hours: various: Announced weekly on Canvas (by Zoom only)

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: **Listed in the brief syllabus (https://csus.instructure.com/courses/93920/assignments/syllabus)**

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

Tools: For this course we will be using JavaFX. In addition to the library itself, you will need a development environment. I will be using **IntelliJ (https://www.jetbrains.com/idea/)** and that is what I recommend. You may also use Netbeans or Eclipse if you wish. For this course you must have JDK18. There are several reasons of this, suffice it to say that you risk losing points if your submissions are incompatible with any provided libraries or my grading scripts. I will not compile them or answer any questions related to earlier versions of the JDK, don't ask. I suggest that you download the suggested JDK18 with JavaFX from Zulu for this course. The first project will give you an opportunity to test your setup.

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.

Course Grading Breakdown:

Quizzes	~35%
Project	~50%
Everything else	~15%

Engagement Grading and Curving

I no longer curve individual quiz grades. Your raw score will be reported to you. I do adjust the cutoffs as a function of class performance, however, let me be clear, this is a matter of judgment on my part and assumes that students are engaging the material sincerely. You should not expect that the curve will save you. There are minimum passing grades for all quizzes and assignments and this will be taken into account when curving the final grades.

EPA Grading (From U.C. Berkeley)

EPA was created to encourage people to be good academic citizens, in a way that traditional grades could not capture. This can help boost you over a grade boundary if you're close to one. Scoring is confidential (**we'll never tell you your EPA score and you shouldn't ask**), and is decided by the teaching staff, so make sure they know your name.

Here are the categories:

- Effort = {Office hours, doing every single lab, hw, reading Canvas pages, etc.}
- Participation = {Attendance, Raising hand in discussion, asking Canvas Discussion questions, etc., actively engaging material in OH}
- Altruism = {Helping other students in class, or by answering Canvas discussion questions}

Grading Standards

Natural grades are measured in terms of whole letter grades only using the standard grade distribution. In other words, there are no cutoffs for plus or minus grades.

A	**Excellent:** Exemplary achievement of the course objectives. In addition to being clearly and significantly above the requirements, work exhibited is of an independent, creative, contributory nature.	
B	**Good:** Superior achievement of the course objectives. The performance is clearly and	

	significantly above the satisfactory fulfillment of course requirements.
C	**Fair:** Satisfactory achievement of the course objectives. The student is now prepared for advanced work or study. Note: The letter grade "C" does not imply satisfactory achievement at the graduate level.
D	**Poor:** Unsatisfactory achievement of course objectives, yet achievement of a sufficient proportion of the objectives so that it is not necessary to repeat the course unless required to do so by the academic department.
F	**Failure:** Unsatisfactory achievement of course objectives to an extent that the student must repeat the course to receive credit.

Plus and Minus Grades

Plus and minus grades may be assigned based on your EPA score or curve adjustment. Your raw grade is never lowered from your earned natural grade. Hence, if you achieve a B grade with a raw score of 80% or higher, then you cannot be assigned a B- grade. You may, however, be assigned a B+, or an A- grade.

Respondus Lockdown Browser: Online quizzes may require the use of the Respondus Lockdown Browser. The lock down browser will not allow you to use the web or other communications applications during the quiz. Lockdown browser can detect that it is running in a virtual machine and will shut down the browser. You must run this application as intended. Any attempt to circumvent any control enforced by Respondus will be viewed as academic dishonesty and reported to academic affairs. You may, at your option, run Lockdown browser on a dedicated machine, or, using an operating system installed on an external USB hard drive. The intent of this rule is to allow you to run the browser in an environment dedicated to Lockdown Browser. Note, this is not permission to use any virtual environment. The operating system must fully take over the machine and run on bare hardware. Be sure to read **The Syllabus Loophole Clause** below. External drives are confirmed to work for both OS X and Windows (using Windows 2 go). ***At no time do you need a webcam or a microphone to run Respondus Lockdown Browser in this course. The feature that records you taking an exam is called Respondus Monitor. We will not be using Respondus Monitor in this course.***

Whenever a quiz requires Respondus Lockdown Browser then the intent is that you are not to use external resources. You are expected to remain in the application until the quiz is complete. Any quiz log irregularities will be evaluated as potential violations of academic integrity.

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: There is no attendance requirement, per se. However, I do take attendance via a classroom shapshot and your regular attendance is a key component of your EPA grade. A lack of attendance may also have a very chilling effect on your grade if you find yourself below the passing boundary. If you otherwise would earn an F grade and have not attended the majority of courses, your grade will not be curved to a passing grade. The reason for this is simple. Most students who do well come to class and this policy is of no moment. Disengagement and procrastination are the primary reasons that students fail this course. Hence, this policy encourages you to do the very thing that will help you to pass.

Unexcused absences from quizzes will result in zero grades. I adhere to the strictest interpretation of "unexcused" in the **university policy** ⤢ **(https://www.csus.edu/academic-affairs/internal/_internal/_documents/student-excused-absence-policy.pdf)** and require and verify all documentation for such absences.

Makeup Exams: No makeup exams or quizzes will be given. Note: my online quizzes are structured such that it is very unlikely that internet issues will cause problems with any remote quizzes. 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, e.g., Moss.

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 (typically five 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. 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.

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.

Extensions:

In general I do not grant extensions to any student that are not granted to the entire class. In the rare case that an exception to this policy is granted, you will be required to upload your currently completed work first. It is my policy that you must upload your currently completed work prior to asking for an extension. Note: you must have a valid and documented reason and I will consider the impact of your reason along with your currently completed work. Even if you have a valid reason for not attending lecture, it may be insufficient for an extension. You are expected to start each assignment as soon as they are available and it is expected that you have a proportional amount completed at all times during the course.

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.** ⬀ **(https://www.csus.edu/acad/faq/dropping.html)** 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.

Please note, that this is a necessary and not a sufficient condition. You should not expect to be granted an incomplete except in the most serious of circumstances that are beyond your control.

The Syllabus Loophole Clause: A syllabus is not a legal document and does not need to conform to legal standards. Any attempt to circumvent the spirit of these guidelines via the exploitation of a perceived loophole will be interpreted, at the instructors discretion, as a violation of these guidelines. I should not have to tell you that you cannot bring a flamethrower to class for you to know that you cannot bring a flamethrower to class.

The Syllabus Change Clause: Changes may be made to the syllabus at any time for any reason. Such changes are always made carefully and for any significant change made after the first week of the term, you will be notified via a course announcement. It is a violation of class policy to request that you be evaluated according to an outdated version of the syllabus. Said differently, the latest changes always apply to all students without exception.

The Syllabus Catchall Clause: Any matter not explicitly covered by the syllabus or institution-wide policy is left to my sole discretion as the instructor.

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** ⬀ **(https://sacstateshcs.wufoo.com/forms/covid19-illnessexposure-report/)** . Expect a call from SHCS within 24 hours.