

# CS 130: Computer Graphics

## Syllabus

Summer 2026

### General

- 11:00 AM - 12:20 PM, Chung 142
- Website: <http://www.cs.ucr.edu/~craigs/courses/2026-summer-cs-130/index.html>
- Textbook: Fundamentals of Computer Graphics, by Shirley, Ashikhmin, Marschner

### Instructor

- Craig Schroeder
- Office Hours: MWF 12:30 PM - 1:30 PM, Chung 309, or by appointment
- Email: [craigs@cs.ucr.edu](mailto:craigs@cs.ucr.edu)

### Structure

**Website** The course website contains the course schedule, topics, and notes. Homework and projects will be distributed and collected through Canvas. Announcements will also occasionally be made through Canvas.

**Exams** This class will include one midterm and a final. The final will be cumulative, but it will be biased towards material after the midterm. There are no make-up midterm or final; there is simply no fair way to do this. If you know you will not be able to take one of the exams, you will need to make arrangements with the instructor in advance.

**Projects** This course will have two programming projects, which you may work on with a partner. They are structured and will be submitted three times each. The first two are checkpoints, which are intended to encourage steady progress on the project. Details of how much must be done by each checkpoint will be available on Canvas. Both projects come with a grading script, which will allow you to track your progress on the projects as you work on them. The grading script will tell you exactly what grade you will receive before you submit each project or checkpoint. You have two free late days, which you may apply to these projects or checkpoints. You may apply one late day to each of two submissions; no submissions are accepted more than one day late, and no late submissions will be accepted once these late days are exhausted. These will be submitted on Canvas.

**Partners** You are allowed to work on all of the homework/projects with a partner. Exams must be completed individually. If you have worked on an assignment with a partner, you must list both your name and your partner's name at the top of each file you modify. This lets us distinguish between collaboration that is permitted and collaboration that is not. You may start working with a partner at any time during the quarter, but once you have started working with a partner you may not change your partner except in very rare circumstances.<sup>1</sup> Groups larger than two are never permitted.

**Homework** There will be weekly homework assignments, which are due on Canvas by end of day Sunday. Most consist of a pencil-paper portion and a programming portion. There are no make-up homework assignments. You have two free late days, which allows you to submit two of the homework assignments one day late without penalty. Additionally, the lowest-scored homework will be dropped when computing your course grade. You may work on homework with a partner, but (1) you must indicate on all files that you modify who your partner is and (2) you may not change your partner during the course.

**Discussion** There will be weekly discussion sections. A few of these will introduce new material (especially the first), but most will focus on practical problem solving and are intended to help you prepare for the exams. Attendance is required and counts towards your participation grade. Two absences are allowed. Attendance will not taken during the first discussion.

**Grading** Your grade will be computed according to the grading scheme below. All students **must** complete the academic integrity quiz in order to receive a nonzero grade for the course.

Item	Contribution
discussion	10%
homework	10%
project	30%
midterm	20%
final	30%

I do not follow a strict grading scheme, nor do I follow a strict curve. Instead, I do a hybrid between the two. (1) I do not curve individual assignments or exams, though I do include extra credit on some items. Curving only occurs at the end, if it occurs at all. (2) I never curve down. 90% is at least an A-, 80% is at least a B-, 70% is at least a C-, and 60% is at least a D. I will occasionally set lower cutoffs when the score distribution warrants it. (3) Other cutoffs (between A vs A-, B+ vs B, etc.) are based on the distribution of scores.

## Academic integrity

Homework may be completed with a partner, but exams must be completed individually. The following are **not allowed** in this course. For the purposes of this course, they are violations of academic integrity. Violations of academic integrity will result in a score of 0 for the relevant assignment **and** a lowering of the final course grade by one letter grade (e.g., from A to B). In more severe or repeat cases, violations will result in an 'F' for the course and a referral to the campus academic integrity committee.

- Working on any graded component of the course with another student (other than your partner) or sharing solutions with another student.
- Asking or paying anyone to complete any portion of the course for you.
- Copying or referring to homework solutions, code, or pseudocode from any source (other than course resources such as lecture notes or the course textbook).

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<sup>1</sup>In the past, this has only been approved in cases where the original partner dropped the course.

- Working on homework in a *public* Github repository (or anything else that results in your work being visible to other students or visible publicly), whether during or after the course. Working in a *private* Github repository is permitted, provided that repository stays private forever and is never shared. If you wish to share your code from this course with potential employers, please do so privately.
- Use of generative AI (ChatGPT, Copilot, etc.) is **strictly prohibited** in this course.
- Looking up answers/hints to homework or coding problems online. (“Researching the question.”) The Internet is a very useful resource, and there are many reasonable places for it in this course (C++ library reference, as a supplement to lectures, further information on interesting topics, etc.) But there is a fine line between using the Internet as a tool for learning and using the Internet as a tool for cheating. **If you are not sure, ask.**

The following are explicitly **allowed**.

- Office hours (TA or instructor) are a great resource if you are stuck on a problem or otherwise struggling.
- You are allowed to work on projects with your partner
- There are no restrictions on using resources from the course (course textbook, lectures, lecture notes, course website, etc.).
- You may use past exams from this course as study aids. They are publicly available from the course websites from prior quarters.
- There are no restrictions on studying for exams with other students.

If you find yourself struggling in the course, *seek help early*. The longer you wait, the fewer options will be available.

Start assignments early, especially coding parts. If you start the night before, your chances of successful completion are slim. Although the coding is not intended to take a long time, the time required for debugging is unpredictable and varies wildly from student to student.

## Campus Resources

### SDRC

UC Riverside is committed to providing equal access to learning opportunities to students with documented disabilities. To ensure access to this class, and your program, please contact the Student Disability Resource Center (SDRC) to engage in a confidential conversation about the process for requesting accommodations in courses, classrooms, labs, etc. More information is available at <https://sdruc.ucr.edu>. If you are a student registered with the SDRC, please ensure you send your accommodation letters to faculty through <https://rability.ucr.edu> each quarter/term.

### ARC

The Academic Resource Center (ARC) is the central resource for academic support at UCR. All students are strongly encouraged to visit the ARC, which is staffed by professional and student employees who are well trained to provide academic support and dedicated to fostering academic excellence. Resources provided by the ARC include Tutoring, Supplemental Instruction, Study Skills Workshops, as well as several peer-mentoring programs. Staff works with all students, at all skill levels, in all stages of their undergraduate careers. Visit [arc.ucr.edu](http://arc.ucr.edu) or call 951-827-3721 for more information about hours, location and the scheduling. For more information about the Academic Resource Center, feel free to contact the Director, Rena M. Burton ([rena.burton@ucr.edu](mailto:rena.burton@ucr.edu)).

## **CAPS**

Counseling and Psychological Services (CAPS) offers confidential short-term and crisis psychological services by licensed mental health providers to all UC Riverside students. CAPS offers walk-in/same day services for consultations and crisis support. Mental health clinicians are available 24 hours a day by calling 951-827-5531 or 951-UCR-TALK. Counseling and Psychological Services is located in the Veitch Student Center, North Wing.

## **Title IX**

For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24/7, counseling services, mutual no contact orders, scheduling adjustments, and disciplinary sanctions against the perpetrator. Please see the Title IX website for more information. They can be reached at (951)827-7070. You can also file a report.