

# Tutoring Handbook

ECS 197T

*University of California, Davis*

COMPUTER SCIENCE TUTORING CLUB  
VERSION 1.0

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# Preface

This handbook is intended to be read by tutors who sign up for ECS 197T. I decided to write this handbook mainly because there were many questions and clarifications which were asked repeatedly.

I hope that this handbook would be able to answer any questions that you may have. Since this handbook is a work in progress, your comments and suggestions will be valued the most.

## About Us

The Computer Science Tutoring Club, offers tutoring for all undergraduate students for free. The club offers tutoring for all lower division Computer Science classes and an increasing number of Upper Division courses every quarter.

Over the past year, CS Tutoring has expanded by a lot and averages at about 50 tutors every quarter. It is due to this expansion that caused us to operate separately from the Davis Computer Science Club (DCSC). We are currently closely affiliated with the Computer Science Department, here, at UC Davis and have close relations with the DCSC.

## Acknowledgements

- A special word of thanks goes to Alex Fu (Class of 2017), who has guided CS Tutoring to where it stands today!
- I would also like to thank the Computer Science Department for their indefinite support.
- I'm deeply indebted to my parents, colleagues and friends for their support and encouragement.

Aakash Prabhu '19



# 1

## Introduction

*“Good software, like wine, takes time.”*

– Joel Spolsky

### 1.1 Our Officers

Please take a few seconds to get to know our officers for CS Tutoring. They have put in a lot of time and effort into making all of this possible.

To slow down the reception of spam emails, a direct link to email id's have not been provided.

Table 1.1: Officers

S. No.	Name	Position	E-mail
1	Aakash Prabhu	President	aakprabhu [at] ucdavis [dot] edu
2	Aaron Kaloti	Vice President	apksingh [at] ucdavis [dot] edu
3	Sahana Mundewadi	Vice President	spmundewadi [at] ucdavis [dot] edu
4	Sravya Divakrala	Technical Director	sdivakarla [at] ucdavis [dot] edu
5	Nikhil Yerramilli	Coordinator	yvsami [at] ucdavis [dot] edu

### 1.2 Our Goals

If you have tutored with us before, then you must be knowing that our primary goal is to provide free CS tutoring for all undergraduate students. Every quarter, we provide free tutoring for all lower division courses and an increasing number of upper division courses every quarter. Apart from this, we also hope to get a hour tracking system for tutors and a website that helps match tutors with tutees.

### 1.3 Contact Us

If you have any questions or clarifications, please email us at:

**ucdcstutoring [at] gmail [dot] com**

The vice presidents and myself are generally quick when it comes to replying to email. We are very familiar with all the rules and regulations of tutoring and will be happy to answer any questions you may have!

### 1.4 Roles of Officers

The President and the two Vice Presidents are in charge of hosting weekly meetings, setting up review sessions and managing all tutors. They are also responsible for final grades.

The Technical Director is in charge of setting up the website and managing it. We hope to get a website up and write up a software that tracks hours and matches tutors with tutees.

The coordinator is in charge of setting up events that the club might have. Furthermore, the coordinator acts as a medium of communication between CS Tutoring and the CS Department.



## 2

# Requirements for Tutoring

*“Measuring programming by lines of code is like measuring aircraft building progress by weight.”*

– Bill Gates

## 2.1 Requirements

After you have applied to be a tutor, the major advisors review your application and get back to us with approvals and CRN's (if you have applied to receive units as well). Here are the requirements to be accepted for tutoring.

### 2.1.1 GPA Requirements

According to departmental policies, if you wish to tutor for a particular ECS class, you must have a *B* or more in that class **AND** must have a cumulative CS GPA <sup>1</sup> of *3.0* or more.

### 2.1.2 What if my CS GPA is below 3.0?

If your CS GPA is a little under 3.0 (say 2.94), and if you have tutored with us before, Please contact me for approvals. Do remember that you may only tutor those courses in which you have received a B or more.

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<sup>1</sup>You may find your cumulative CS GPA in <http://oasis.ucdavis.edu>



## 3

# Where and How to Tutor

*“First, solve the problem. Then, write the code.”*

– John Johnson

### 3.1 Where to Tutor?

If you are currently signed up for tutoring, and are reading this, thank you for taking the time out of your weekly schedule to help students who have a hard time understanding concepts.

#### 3.1.1 Location

Tutoring will take place in Kemper 75 (the basement). Simply to go to Kemper 75 during tutoring hours, write your name, your timings for the day, and the classes you tutor on the white board. If there is no space in Kemper 75, you may sit in another room, but please specify that on the white board. Try to appear like a tutor. If you see someone screening through the white board for tutors, approach them, and ask if they’d like to be tutored.

#### 3.1.2 Sending in your schedules

You will be required to send in your schedule for the quarter and your preferred times for tutoring by the second or third week of the quarter via email. Your timings would help us set up an effective method to match you with other tutees and direct students easily.

### 3.2 Tips for tutoring

Think of tutoring as just explaining to your friend who doesn’t understand something. You may use any method to get your point across to your tutee.

Here are some tips:

**1.** Try to use the whiteboard to explain unclear concepts. You may get markers from the main CSIF office (or you may even bring your own markers). You may also use paper or anything of that sort to get your point across. It would be very difficult to understand what you might be saying if you aren't going to write out anything.

**2.** Use as many examples as possible. A lot of concepts become clear if you use examples than just plain theory.

**3.** Please try not give students the answer to problems. It would just be a waste of time then. They aren't going to learn anything if you just solve the problem for them. Homework problems are the key to doing well on exams. It is important that students understand how to solve these problems.

**4. DO NOT WRITE CODE FOR STUDENTS.** This is a very risky thing to do. If you happen to help two students with the same program and end up writing parts of their code, there are very high chances that those two students will be reported for plagiarism. This has happened twice before and the tutor was also sent to the SJA.

## 4

# For-Unit Tutors

*“Computer Science is no more about computers than astronomy is about telescopes.”*

– Edsger Dijkstra

### 4.1 Requirements

If you applied to be a tutor and have requested to receive units, here are the requirements to get a Pass for this class.

**These requirements will be strongly enforced. No exceptions will be made.**

#### 4.1.1 Attend Weekly Meetings

If you are a for-unit tutor, you are required to attend weekly meetings. Weekly meetings are generally 15 minutes long and I generally go over what topics are being covered in various CS Classes and about tutoring in general. I also sign up hosts for review sessions during these meetings.

If you miss a meeting, do not worry. I generally send out a recap email that has everything that we discussed during the meeting.

Note: If you are a for-unit tutor, you are allowed to miss up to two meetings. This will be strongly enforced.

#### 4.1.2 Complete Your Required Hours for the Week

For every unit, you are required to tutor 3 hours per week. For example:

1 unit = 3 hours per week

2 units = 6 hours per week

3 units = 9 hours per week.

Please be true to your timings. If you are busy during the particular week and you tutor for fewer hours that week, that's okay! We understand if you have 3 midterms on a single day. Kindly let us know in advance.

Please try to be as consistent as you can with your timings for the quarter. For example, if you generally tutor on Wednesday's and want to tutor on Friday for a particular week, that is perfectly alright.

NOTE: Hours for the week do not roll over. If you tutor for 14 hours on a particular week, it only counts as how many ever hours you initially signed up for. As much as I deeply appreciate you spending extra time tutoring, hours do not roll over for the next week.

#### 4.1.3 Host At Least 1 Review Session

Student hosted review sessions is something unique to CS Tutoring. For-unit tutors are required to host at least 1 review session for any class that they tutor for. You are expected to prepare for the review session and you are also expected to go over any questions or topics that students might want you to go over. If you have taken a course with the same instructor, then you may use your materials as a reference. However, giving out past material is strictly against the policy as this is really risky and might get you reported for academic misconduct. Please try to follow this.

For those of you who feel uncomfortable hosting a review session alone, do not worry. Generally, review sessions are hosted by 2 - 3 tutors on an average (sometimes more). The hosts generally get together and decide as to how to go about hosting the review session. Please try to keep the review session at a time that is convenient for most students to attend. Something like 6 PM would be a good time to host a review session as most people will not have class then.

If you host a review session, it counts as double hours for the week. For example, if you signed up for 1 unit and you host a review session for 1.5 hours then, you have completed your hours for the week.

## 5

# Class Informants or Dedicated Tutors

```
“if (sad() == true) {  
    sad().stop();  
    beAwesome();  
}”
```

– Every CS Major

### 5.1 Responsibilities

During each meeting, I will go over what topics are being covered in all lower division classes and a few upper division classes (based on the number of people who tutor upper division courses). This will keep tutors informed in case they are required to help out students. I will also go over the programming assignments of each class (if any) so that tutors can be better prepared.

As a dedicated tutor (or class informant) for a particular ECS class, you are required to email us what topics are covered in that class, when the next homework and/or programming assignment is due, and when the next midterm is. By doing this, you get two hours off your weekly hours.

*For example:* If you sign up for two units of tutoring and if you sign up as a dedicated tutor for, say ECS 50, then you only need to tutor for 4 hours a week instead of the usual 6 hours.

**Please email the required information BEFORE THE START of every meeting (Not during the meeting). I check the timestamp of every dedicated tutor email and if you send it after the meeting, you will not get your hours deducted for the week. *THIS WILL BE STRONGLY ENFORCED.***

## 5.2 E-Mail Format

Please use the following format to send in your dedicated tutor emails:

**Subject of the email:** *ECSxx: Dedicated Tutor - Updates*

**Body of the email:**

Current topics taught in class: <include topics>

Next Midterm Date: <include midterm date>

Assignments: <include description and due date>



# 6

## Logging Hours

*“Computers are good at following instructions but not at reading your mind.”*

– Donald Knuth

TO BE COMPLETED AFTER WE DECIDE ON AN EFFICIENT METHOD.



# 7

## Applications for Next Quarter

*“Never use a B-Tree in RAM!”*

– Sean Davis, University of California, Davis

If you wish to apply to be a tutor for the next quarter, applications will be open after the end of the current quarter and will be reviewed after final grades have been processed.

I hope you had a great quarter tutoring and I hope you met new people and improved on your personal communication skills! See you again, next quarter!

*- The Computer Science Tutoring Club*