

# CS109: Competitive Programming

Fall 2015: 50480



[Home \(index.html\)](#)

[Books \(Books.html\)](#)

[Exercises \(Exercises.html\)](#)

[Grading \(Grading.html\)](#)

This is a course on competitive programming using **C++, Java, and Python**.

Estimates of the required effort to do well are:

- **1** hour per week of studying
- **3** hours per week of programming
- **1,000** lines of code

There's also a companion UTCS club to the class: UTCS Competitive Programming Club (<https://www.cs.utexas.edu/users/utpc/>).

## Getting Started

1. Sign into Canvas (<https://utexas.instructure.com/courses/1144054/>) and confirm that you're registered for the course and can see your grades. It's **imperative** that you check your grades on a regular basis.
2. Sign into Piazza (<https://piazza.com/utexas/fall2015/cs109/>). The assistants and I will **not** respond to questions on Piazza unless it's of a personal nature. All questions **must** be asked on **Piazza**.
3. Sign into Top Hat (<https://app.tophat.com/e/109772/>). **Attendance** and **quizzes** will be managed by **Top Hat**. It costs either \$24/term or \$36/year (<https://tophat.com/pricing/>).
4. Get a Codeforces account (<http://codeforces.com>).
5. Get g++ 4.8 (c++ 11) (<https://gcc.gnu.org/gcc-4.8/>) installed on your machine. The **CS network** has:

```
% g++ --version
g++ (Ubuntu 4.8.4-2ubuntu1~14.04) 4.8.4
```

6. Get python3 (<https://www.python.org>) installed on your machine. The **CS network** has:

```
% python3 --version
Python 3.4.0
```

7. Perhaps get the **optional book**:
  - Competitive Programming ([http://www.comp.nus.edu.sg/~stevenha/myteaching/competitive\\_programming/cp1.pdf](http://www.comp.nus.edu.sg/~stevenha/myteaching/competitive_programming/cp1.pdf))

## Lectures

Unique	Days	Time	Place
50480	F	3pm	GDC 4.304 ( <a href="http://www.utexas.edu/maps/main/buildings/gdc.html">http://www.utexas.edu/maps/main/buildings/gdc.html</a> )

## Student Instructors

Name	Days	Time	Place
Arnav Sastry arnavsastry@gmail.com (mailto:arnavsastry@gmail.com)	W	3:30-4:30pm	GDC 3.302 ( <a href="http://www.utexas.edu/maps/main/buildings/gdc.html">http://www.utexas.edu/maps/main/buildings/gdc.html</a> )
Jaime Rivera jaime@cs.utexas.edu (mailto:jaime@cs.utexas.edu)	Th	3:30-4:30pm	

## Faculty Mentors

Name	Place
Glenn Downing ( <a href="https://www.cs.utexas.edu/users/downing/">https://www.cs.utexas.edu/users/downing/</a> ) downing@cs.utexas.edu (mailto:downing@cs.utexas.edu)	GDC 6.308 ( <a href="http://www.utexas.edu/maps/main/buildings/gdc.html">http://www.utexas.edu/maps/main/buildings/gdc.html</a> )
Shyamal Mitra ( <a href="http://cs.utexas.edu/users/mitra/">http://cs.utexas.edu/users/mitra/</a> ) mitra@cs.utexas.edu (mailto:mitra@cs.utexas.edu)	GDC 6.320 ( <a href="http://www.utexas.edu/maps/main/buildings/gdc.html">http://www.utexas.edu/maps/main/buildings/gdc.html</a> )

## Special Needs

Any student with a documented disability who requires academic accommodations should contact Services Students with Disabilities at 471-6259 (voice) or 1-866-329-3986 (Video Phone) as soon as possible to request an official letter ([https://utexas.qualtrics.com/SE/?SID=SV\\_8pEFQipZiaQ77St](https://utexas.qualtrics.com/SE/?SID=SV_8pEFQipZiaQ77St)) outlining authorized accommodations.

You **must** provide this letter to me by the **12th class day**. Project deadlines **will not** be extended for special needs students.

## Incompletes

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To be eligible for an **incomplete** you must have a letter grade of **C** or better and a written, verifiable excuse for missing the last test. This is a **necessary** but **insufficient** condition for receiving an incomplete.

## Academic Integrity

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Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual students, and the integrity of the University, policies on academic dishonesty will be strictly enforced. For information please visit the Student Judicial Services Web site: Student Judicial Services (<http://deanofstudents.utexas.edu/sjs/>).

Programming assignments will be compared using Moss (<http://theory.stanford.edu/~aiken/moss/>). You **may design ideas** with your fellow students. You **may not share code in any way** with your fellow students.

The penalty for academic dishonesty will be a course grade of **F** and a referral of the case to the Dean of Students (<http://deanofstudents.utexas.edu>). Further penalties, including suspension or expulsion from the university may be imposed by that office.

## Tweets

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15 Jul

Risto says the robots kill-all-humans scenario is a “very, very unlikely course of events.”  
[ow.ly/PFgbO](http://ow.ly/PFgbO) [ow.ly/i/bQnmG](http://ow.ly/i/bQnmG)

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22 Jun

Want to win a trip to CppCon? Enter [@Bloomberg](#)'s weekly coding competition - it starts today! [ow.ly/ODt8t](http://ow.ly/ODt8t)

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19 Jun

Miss Dr. Peter Stone talking about robot soccer on [@foxaustin](#) Good Day Austin? Check out the video! [ow.ly/Oy7Hr](http://ow.ly/Oy7Hr)

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19 Jun

Grab that bowl of cereal and cup of coffee and tune in to watch Peter Stone on Fox 7's Good Day Austin at 9:15AM. [#robotsoccer](#) [#austinville](#)

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18 Jun

What are you doing at 9:15 AM tomorrow? Watching Peter Stone on Good Morning Austin? Me too! [#artificialintelligence](#) [#robotsoccer](#) [@foxaustin](#)

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