

CS 1190

Careers in Tech Syllabus

Class Times & Instructors	See below in Section 4 (Staff & Course Times)
Class Location	Will be hosted virtually via Google Meet
# of Credits	1 credit

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1. General Course Description

1.1 Course Description

This course will provide students with visibility into an attainable pathway into tech roles and/or the tech industry. They will know what clear steps they need to take to achieve their individual career goals. They will also get practical experience in interviewing techniques.

1.2 Prerequisites

- Proficiency in the following programming concepts: loops, functions, parameter passing, recursion, and basic object oriented programming.
- Basic understanding of the following data structures: arrays/lists, dictionaries/maps, linked lists, binary trees, binary search trees, sets, stacks, and queues

2. Course Resources

2.1 Course Components

- **Workshops**
 - This course will have a weekly 1 hour workshop that you are required to attend.
 - Weekly workshops will review practice tips for interviewing, and provide broader information about potential careers in the tech industry.
- **Mock Interviews**
 - Students are required to complete 6 technical mock interview sessions. You will receive instructions about how to schedule these interviews.

2.2 Components of course grade

% of grade	Component	Description
50%	Mock Interviews	Students are required to complete 6 coding mock interviews. You will receive points for these mock interviews based on your effort – not correctness.
40%	Class Attendance & Participation	Students are required to attend each weekly workshop and participate in any activities.
10%	Homework Assignments	Students are required to complete assignments following some weekly workshops.

2.3 Asking Questions

If students have questions outside of class, there are 4 venues where they can ask them:

- Course email: tx24-cit-leads@techexchange.in.
- Office hours (see below)
- Directly email the instructors, facilitators, or Course Coordinator (see their emails [below](#)).
- Discord - Direct Messaging (1 business day response time)

2.4 Required textbooks

No textbook is required for the class.

However, we strongly recommend that you acquire [Cracking the Coding Interview](#), as it has a lot of useful information about interviews, the process at specific companies, and practice problems with detailed solutions.

2.5 Department resources

The course will be co-taught with instructors from Google and faculty from partner universities.

3. Course Aims and Learning Objectives

3.1 Course aims

Students will grow skills in the four following areas:

1. Interview readiness, specifically for SWE internship-level roles
2. Confidence & interest in getting into tech industry
3. Exposure to the breadth of roles within the tech industry or technical roles outside of the industry
4. Actions to prepare for their career; technical roles and skills to work through challenges

3.2 Learning objectives

Students will:

- Apply skills required for solving technical interview problems
- Gain comfort with technical interviews through frequent mock interview practice
- Deepen their ability to solve time sensitive programming tasks
- Understand how they can explore various careers in the tech industry.

4. Staff & Course Times

4.1 Course staff

- Google Instructors:
 - Paul Fagerburg (pfagerburg@techexchange.in) ([LinkedIn](#))

- Rob Ramkishun (rramkishun@techexchange.in) ([LinkedIn](#))
- Rotating Googlers for various unit topics
- Additional Google Course Managers:
 - Diana Azizyan (dazizyan@techexchange.in)
 - Nikki Bailey (nikkiab@techexchange.in)
- TechX Team Point of Contact
 - Cymone Stolz-Clark (cymonesc@google.com)
- Faculty Instructors:
 - Alycia Onowho (alycia.onowho@howard.edu)
 - Kiavash Bahreini (kbahrein@fiu.edu)
 - Sajid Hussain (shussain@fisk.edu)
 - Caryl Rahn (crahn@fiu.edu)
 - Harry Keeling (hkeeling@howard.edu)

4.2 Course times

All courses last 50 minutes.

- Section A
 - Tuesdays 4 pm Eastern / 1 pm Pacific
- Section B
 - Tuesdays 5 pm Eastern / 2 pm Pacific
- Section C
 - Fridays 10:10 am Eastern / 7:10 am Pacific
- Section D
 - Fridays 11:10 am Eastern / 8:10 am Pacific
- Section E
 - Fridays 1:10 pm Eastern / 10:10 am Pacific
- Section F
 - Fridays 2:10 pm Eastern / 11:10 am Pacific

4.3 Office Hours

Instructors will host office hours throughout the semester via video chat. Office hours are posted in Google Classroom, and also shown on the Tech Exchange 2024 Academic Calendar.

- Paul: Tuesdays 9-10 AM MST, Wednesdays 1-2 PM MST. Please visit my [office hours appointment page](#) to sign up, or reach out via email and we'll set up a different time.
- Rob: Wednesday 4-5PM EST. [Here](#) is the link to my office hours! Feel free to reach out if this time does not work for you!
- Diana:

5. Course Outline

5.1 Topics Covered

Topics may not be covered in this order, we may add/remove topics based on student interest and progress. However, this should be the general order of things for this course.

An up-to-date list of classes, including dates and topics covered will be available on the course website.

Unit	Topics
1	Introduction to CiT
2	The Three Interview Questions
3	Demonstrating Comprehension and Communication
4	Demonstrating Coding
5	Demonstrating DS&A
6	Demonstrating Testing
7	Resume Workshop + Building your Personal Brand
8	Panel: Careers in Tech
9	Defining Success + Networking
10	Interviewing the Interviewer
11	Panel: AI and the Future of Tech Careers
12	Growth Mindset & Imposter Syndrome
13	Panel: Real Talk
14	Financial Literacy / Budgeting

5.3 Assignments

Due dates for mock interviews will be posted on the course website. You must complete the mock interview by the posted due date to get full credit. You have one "late pass", which allows you to get full credit for a late or missed interview.

There will also be two additional assignments due: A resume assignment and a professional social media assignment. Due dates for these will be announced during class and posted on the course website.

6. Assessment and Grades

6.1 Grading Scale

Grading scale is determined by your home institution. Tech Exchange reports a percentage, which your institution will map to a letter grade with a plus/minus if applicable.

6.2 Late Work policy

You must complete mock interviews by their scheduled due date. All interviews completed past their due date will receive 50% credit.

You will have *one* “free late pass” during the semester, where you will still be able to receive full credit for a late interview.

6.3 Attendance Policy

Students are expected to attend classes regularly, on time, and **with cameras on**.

- You must attend classes on time and actively participate during group work to get credit. If you have to miss class, please reach out to the course instructors.
- All students will be required to have cameras during class on to receive full attendance credit.
- There will be brief quizzes and surveys during some classes. These quizzes will be graded for completion, NOT for correctness. The quizzes are intended to provide feedback to your instructors.
- Note: Cameras being on is not required for mock interviews.

6.4 Plagiarism Policy & Guidelines for Collaboration/AI use

All instances of plagiarism will be directed to the university administration, which will conduct the appropriate hearings. Use the table and guidelines below to determine if you can collaborate on a given assignment.

What kind of help can I get on an assignment?

Type of work	Help allowed from
Exercises during class	Your instructor, TA, or other student enrolled in this course. Make sure to include their name on the material handed in.
Homework	Your instructor, TA, or other student enrolled in this course. AI/ML use is

Assignments	permitted as well.
Mock Interviews	No help permitted.

Students are **not** allowed to share or look at another student's code for any mock interviews. The following are **not allowed for mock interviews**:

- Use of AI tools includes but is not limited to:
 - Copying and pasting prompts into an AI tool
 - Copying/pasting code generated from an AI tool
 - Slightly modifying code generated from an AI tool
- Copy/pasting code. This includes but is not limited to copy/pasting code from:
 - Another student enrolled in the class
 - A person not enrolled in the class
 - Any online source
- Sharing your code with someone else. This includes but is not limited to:
 - Posting your code to a public github repo (repos are public by default - beware!)
 - Emailing your code
 - Sharing a google doc or other file containing your code
 - Sending code snippets in a chat/text
 - Screen sharing your code for someone else to see
 - Writing your code on a whiteboard for someone else to take a picture of
 - Reading your code aloud to someone else
 - Two or more people discussing line-by-line what code to write aloud over e.g. video chat as you are writing it, even if you are both typing up the code separately
- Reading someone else's code
- Asking other people questions about the mock interview™

Consequences

If caught cheating, you will receive a 0 on the assignment. There will be a conversation between you and your instructor and the program team. The program team will report this to your academic institution and academic lead.

7. ADA Policies and Procedures

If a student needs particular accommodations to be made, they must submit [this form](#).