CSCI 1300: Starting Computing

Supriya Naidu, Fall 2022

Hi! I'm Supriya

- Call me **Supriya** or **Prof. Naidu**
- **Research interests:**
  - visualization, color perception, human-computer interaction
- **Office Hours:**
  - MW, 10:15 am – 12 pm , ECOT 741
- **Email:** supriya.naidu@colorado.edu

What is Computer Science?

What is Computer Science?

- The study of the principles and use of computers
- Discipline that spans **theory** and **practice**.
  - think in both abstract and concrete terms
- Uses **computational thinking** to solve problems
- Makes computers do new things or accomplish tasks more efficiently

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

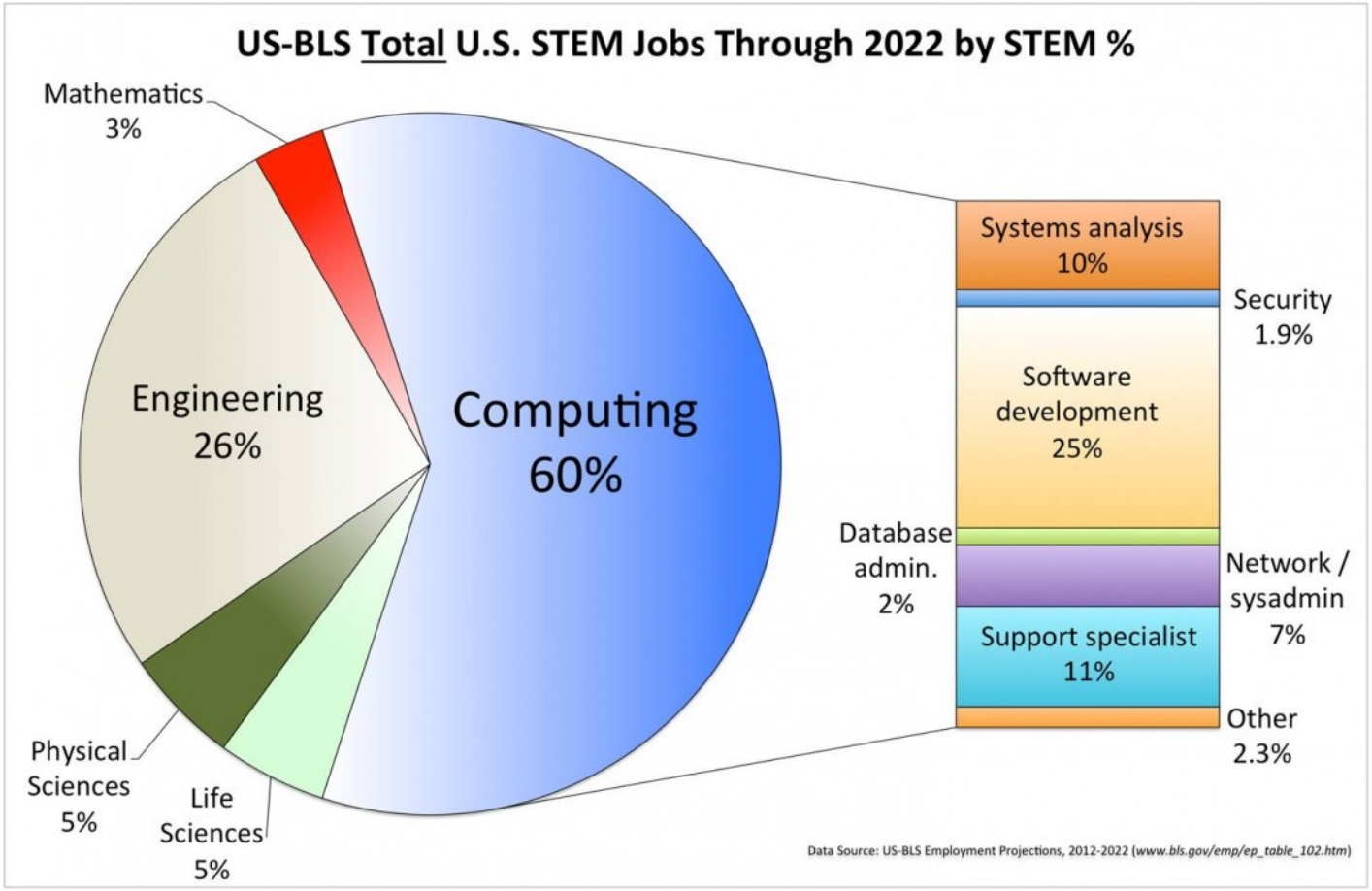
-Edsger Dijkstra

What are we computing?

- Design, analysis and experimentation
- Automation of tasks, improving existing solutions
- Networking, human-computer interaction(HCI), artificial intelligence(AI), machine learning (ML)

Why Computer Science?

What computing jobs are going to be available?



Administrivia

Canvas

CSCI 1300 – CS 1: Starting Computing Fall 22

- Course syllabus
- Office Hours Calendar
- All assignments, lecture slides/videos and other course materials will be distributed through Canvas
- Check it regularly for updates!

Recent Announcements

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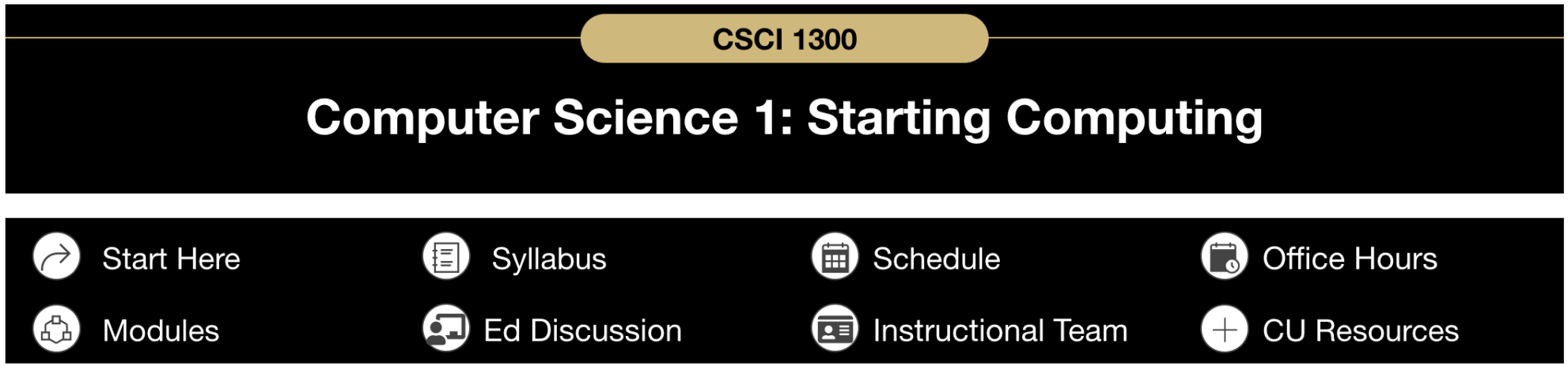
Welcome to Starting Computing!

Hello everyone,Welcome to Starting Computing!This is a 4 credit course with 3 lectures a...

Posted on:
Aug 21, 2022, 4:45 PM

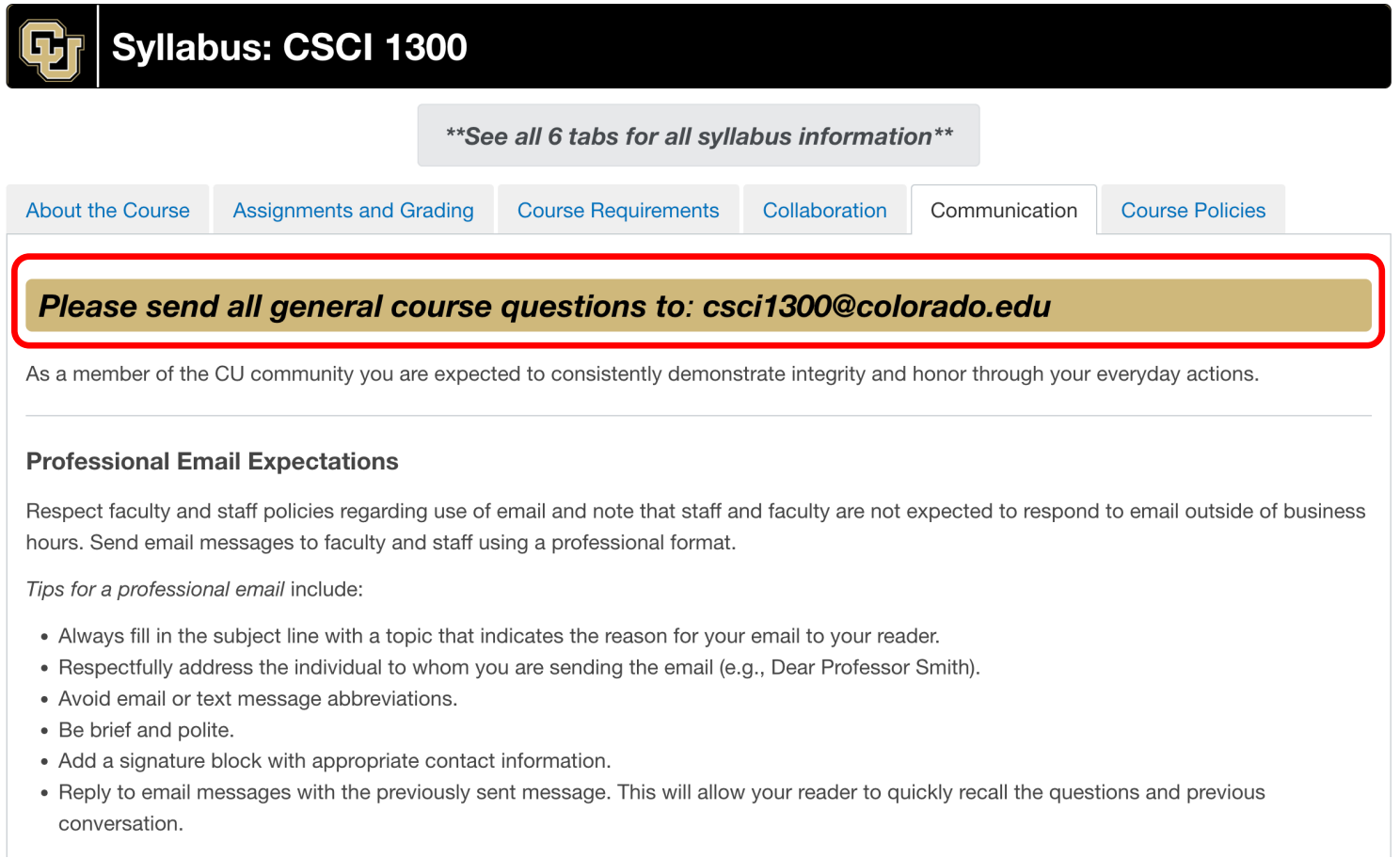


Welcome to Computer Science 1: Starting Computing

CSCI 1300 is a 4 credit hour course that teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains. The course is appropriate for students with little to no experience in

Communication

- Send **ALL** questions to **csci1300@colorado.edu**: academic, accommodations, sports, travelling, health issues or concerns



Syllabus: CSCI 1300

See all 6 tabs for all syllabus information*

About the Course | Assignments and Grading | Course Requirements | Collaboration | Communication | Course Policies

Please send all general course questions to: csci1300@colorado.edu

As a member of the CU community you are expected to consistently demonstrate integrity and honor through your everyday actions.

Professional Email Expectations

Respect faculty and staff policies regarding use of email and note that staff and faculty are not expected to respond to email outside of business hours. Send email messages to faculty and staff using a professional format.

Tips for a professional email include:

- Always fill in the subject line with a topic that indicates the reason for your email to your reader.
- Respectfully address the individual to whom you are sending the email (e.g., Dear Professor Smith).
- Avoid email or text message abbreviations.
- Be brief and polite.
- Add a signature block with appropriate contact information.
- Reply to email messages with the previously sent message. This will allow your reader to quickly recall the questions and previous conversation.

Computing

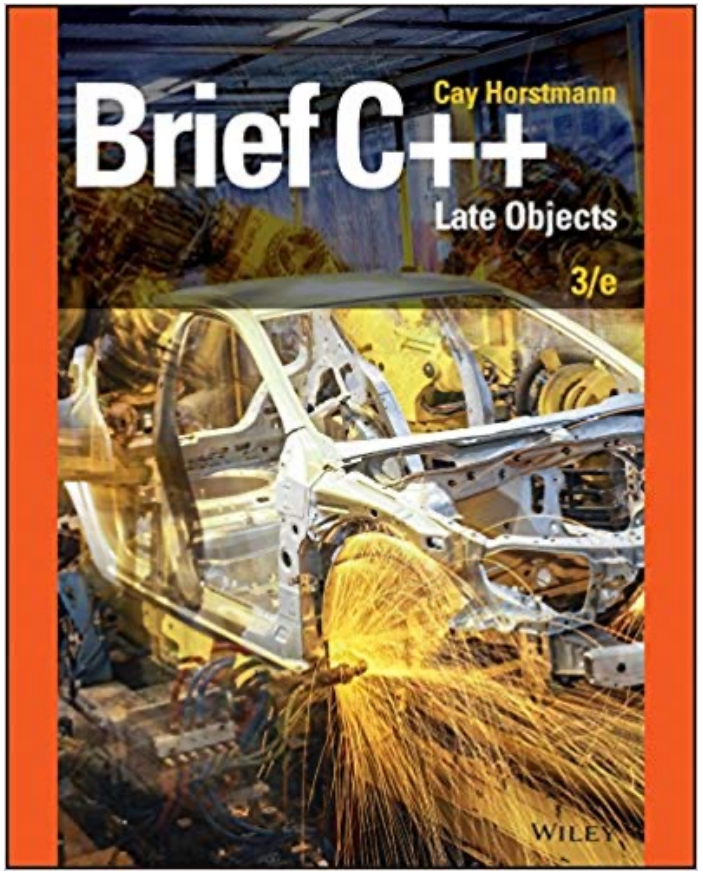
- We will use C++
  - Great mix of efficiency and ease of translating experience to other language later in your computing life
- Visual Studio Code
  - Nice interface to program
  - Debugger, all-in-one platform
  - Talk more later, and in recitation

Textbook – available through Canvas

Brief C++: Late Objects 3rd edition, by Cay Horstmann

- Only available in electronic form
- International, old and PDF editions are okay, *but will lack online activities*, which we will do in lecture and recitation

Additional reading will be linked to the course Modules as needed



Let’s syllabus

You are responsible for knowing and reviewing:

- Practicum policy
- Assignments and late submission policy
- Attendance policy
- Classroom behavior
- Collaboration and honor code
- Office Hours policies
- Ed Discussion policies
- Interview policies
- Discrimination and harassment
- Disability accommodations
- Religious observances
- Sexual misconduct, discrimination, harassment and/or related retaliation

Let’s syllabus

Workload:

- (380 points) homework, quiz, recitations -- weekly
- (325 points) projects -- 3x, worth 60p, 115p, 150p
- (250 points) programming practicums -- 50p, 100p, 100p
- (45 points) participation – Canvas quizzes and other activities

≥ 67% practicum average required to earn a C- or higher in the class – this means 167 total points (out of 250)

- Final exam – possibility of replacing practicum score(s)
- New score replaces old one even if lower

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Back up your work!

- Google Drive
- Dropbox
- GitHub (**private** repository)
- **No extensions** in event where you didn’t back up your work

Let’s syllabus

You are responsible for knowing and reviewing:

- Practicum policy
- Assignments and late submission policy
- **Attendance policy** → **Recitation:**
  - Weekly, mandatory 75 minute lab with programming activities.
  - Ask questions about assignments and get extra help.
- Classroom behavior
- Collaboration and honor code
- Office Hours policies
- Ed Discussion policies
- Interview policies
- Discrimination and harassment
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Attendance Policy

- You must attend recitation each week
  - Your TA will take attendance
- Recitation materials will be posted on Friday the previous week
  - Weekly graded discussion will happen in recitation
  - Time to work on recitation assignments and ask questions
- If you need to miss recitation, make arrangements to go to another recitation: email **both TAs** and csci1300@colorado.edu
- If you need to **quarantine**, you need to email **your TA,** and csci1300@colorado.

Getting help outside lectures

Office Hours calendar on Canvas (TAs, LAs, instructors) – in-person

- *Learning Assistants (LAs)*
  - Undergrads who took this class and love programming. Many of them will lead recitations!
- *Teaching Assistants (TAs)*
  - Graduate students who are enthusiastic and excited about teaching!
  - Lead recitations, help grade, develop materials, field questions on ED, office hours

Ed Discussion

Invite link on Canvas

Announcements will be posted here

- Ask questions in Q & A forum (and answer other students' questions!)
  - There are hundreds of you and only a few of us -- get answers faster
- Discuss work, but **do not post solutions/vital code**
- Send **private** messages to TAs and faculty

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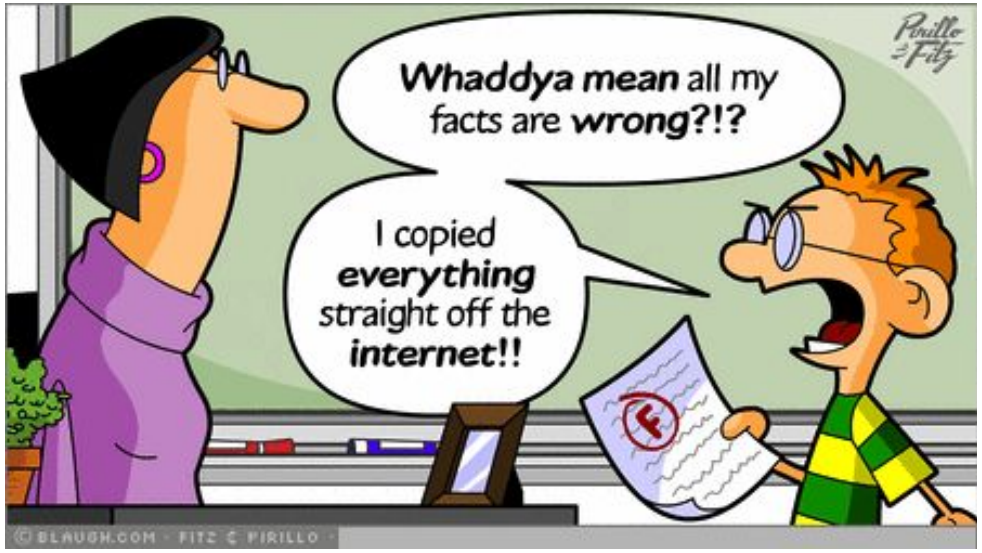
Academic Integrity

See the Course Policies tab on the Syllabus page for more details. Here are some highlights.

- "Examples of cheating include: copying the work of another student during an examination or other academic exercise (includes computer programming)"
- "Examples of plagiarism include: [...] copying information from computer-based sources"
- If in doubt, ask us if it's permitted.



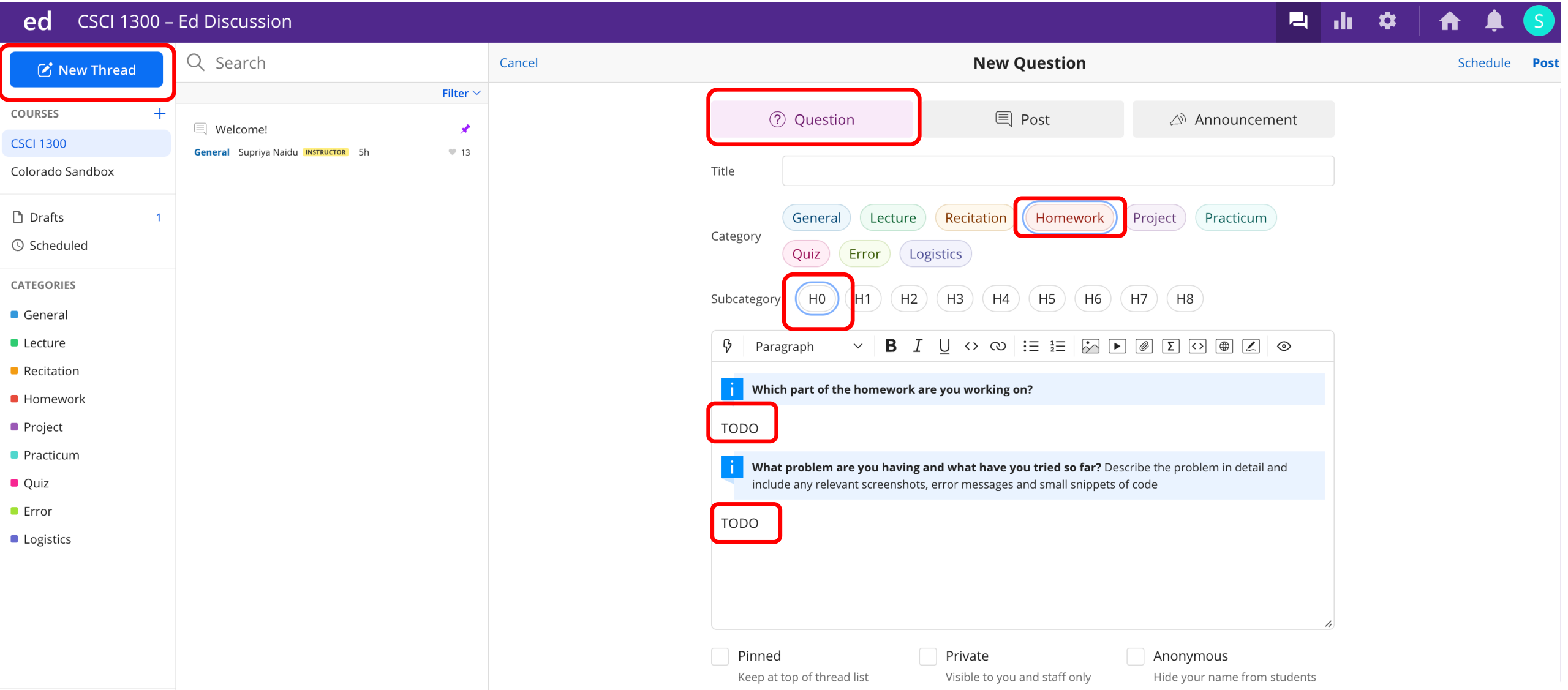
Riding the struggle bus

It's ok to struggle (we all did and still do)

When you're asking for help, be sure to explain...

- what you're trying to do
- what you think should happen
- what you get instead (copy/pastes or screenshots work well)
- what all you have tried
  - if you haven't tried anything, try something first
- use **private** Ed posts (post a "Note") to Instructors if it includes possible solution code

Don't be stuck! Post on Ed, get help during Office Hours!


ed
CSCI 1300 – Ed Discussion
New Thread
Search
Filter
COURSES
CSCI 1300
Colorado Sandbox
Drafts 1
Scheduled
CATEGORIES
General
Lecture
Recitation
Homework
Project
Practicum
Quiz
Error
Logistics
Welcome!
General Supriya Naidu INSTRUCTOR 5h 13
Cancel
New Question
Schedule
Post
Question
Post
Announcement
Title
Category
General
Lecture
Recitation
Homework
Project
Practicum
Quiz
Error
Logistics
Subcategory
H0
H1
H2
H3
H4
H5
H6
H7
H8
Paragraph
Which part of the homework are you working on?
TODO
What problem are you having and what have you tried so far? Describe the problem in detail and include any relevant screenshots, error messages and small snippets of code
TODO
Pinned
Keep at top of thread list
Private
Visible to you and staff only
Anonymous
Hide your name from students

Riding the struggle bus

Life is hard. We want to help however we can.

- Reach out **before** things get too bad. After is also better than going at it alone.
- Students of Concern Team -- https://www.colorado.edu/studentaffairs/student-concern
- Student Support and Case Management -- https://www.colorado.edu/studentaffairs/sscm 1
- Counseling and Psychological Services -- https://www.colorado.edu/counseling/
- The **Red Folder** -- https://www.colorado.edu/redfolder/

Due this week

- Read the Syllabus on Canvas
  - Take the **Syllabus Quiz**.
- Homework 0 - **Install VS Code**
  - Tutorials and videos on Canvas, based on the operating system of your computer
- Recitation 0
  - Run example projects from last semester
- Quiz 1 on Canvas
  - Questions about content covered in lecture during week 1
- Check the due dates!!!

Next time

- Algorithms and Pseudocode

Questions?