

**Week 3**

# Announcements

- Homework 2 due this evening 11:59pm
- Today's attendance quiz on moodle

# Upcoming events

- Light the Night, bike light giveaway
  - Tuesday, September 19, 4-7pm
  - Alma Mater Plaza, Hallene Gateway, and Ikenberry Commons
  - <https://calendars.illinois.edu/detail/6242?eventId=33463215>
- SIGPwny (cyber security) Capture the Flag
  - Saturday, Sept 23th, 12-6pm
  - CIF 3039
  - <https://sigpwny.com/>
- [Campus Fire Extinguisher Training](#)

## Upcoming events

- [After Hours \(Corporate Connections\)](#)
  - Monday, Sept 11, 4-7 pm, Illini Union
- **Grainger Engineering Internship Career Fair**
  - Wednesday, September 13, and Thursday, September 14, 12-5pm
  - Illini Union
  - <https://ecs.grainger.illinois.edu/employer-resources/career-fair>
- [Ellnora the Guitar Festival](#)
  - Krannert Center, today and Saturday

# Heather Zike

Senior Undergraduate Academic Advisor

ILLINOIS COMPUTER SCIENCE

UNDERGRADUATE PROGRAMS

EXPLORE

I

ILLINOIS

[go.cs.illinois.edu/UndergradDegrees](https://go.cs.illinois.edu/UndergradDegrees)

# Options

The Grainger College of Engineering  
(128 hours)

Computer Science

College of Liberal Arts and Sciences (120 hours)

MATH & CS STAT & CS

CS + ANTH, ASTR, CHEM, ECON, GGIS, LING,  
PHIL

College of Agricultural, Consumer, and  
Environmental Sciences (125 hours)

CS + ANSC CS + CPSC

College of Education (120 hours)

CS + EDU Learning Sciences or Secondary Ed

College of Fine & Applied Arts (120 hours)

CS + MUS

College of Media (124 hours)

CS + ADV

and a CS minor, plus 121 other possible minors

# Class Standing vs Cohort

- 29 hrs or less = Freshman Standing
  - 30-59 hrs = Sophomore Standing
  - 60-89 hrs = Junior Standing
  - 90+ hrs = Senior Standing
- 
- Your cohort is Fall 2023



# Curriculum

- CS 124
- CS 128 & CS 173
- CS 225 & CS222
- CS 233 & 341 or CS340
- CS 374
- CS 421
- (CS 357 & 361)
- CS 400 level technical electives
- Core foundation in the other plus major



# Stupid Rules

- Credit cannot be used toward the Grainger Engineering degree for the following courses:
- Any math course below MATH 220 (MATH 112, 114, 116, 117, **STAT 100**, etc.)
- CHEM 101 and CHEM 108
- Any 100 level PHYS course
- ASTR 100
- Basic military science
- MATH 220 AP credit, Engineering students will only get 4 of the 5 hours to count towards their degree

# DARS

- Degree Audit Reporting System
- <https://registrar.illinois.edu/academic-records/dars-audit/>  
or Google it!
- Going to the UIUC homepage and typing in the search box will save you time.

# DARS

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

**I** | Office of the Registrar

Search this site

Registration ▾ Courses & Grades ▾ Academic Records ▾ Calendars Tuition & Fees ▾ Graduation ▾ Faculty & Staff ▾

## Degree Audit

A degree audit is an unofficial audit of progress toward the degree that reflects courses completed and currently in progress.

### Generate an Audit

University of Illinois students can view their degree audit through the [Degree Audit System](#). This report is an unofficial audit of your degree progress which includes in progress coursework. Watch for additional information and advisories specific to your college at the top of your degree audit. **Read the following instructions before generating an audit.**

[Generate an Audit](#)

### Logging In

Use your NetID and Password to log in to the system. These are the same values that are used to log in to Student Self-Service.

### Audit Request Page

questionnaires (1) and [Show all](#)

#### Academic Records

- [Credit for State Seal of Biliteracy](#)
- [FERPA](#)
- [Changing Your Personal Information](#)
- [Preferred First Name](#)
- [Enrollment or Degree Verification](#)
- [Degree Audit](#)
- [Transfer Credit](#)
- [Transcripts](#)
- [Apostilles](#)
- [Academic Records FAQ](#)

Prepared On 09/08/2022 01:04 PM

Program Code 0112 BS

Catalog Year 202208

Student ID

Graduation Date

Job ID 2225113044979706

 Open All Sections Close All Sections

-----&gt; AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED &lt;-----

## \*\*\*\*\* ADVISOR-GENERATED REPORT \*\*\*\*\*

\*\*\*\*\*

If you have questions about the content of this report or concerns about its accuracy, contact 206 Engineering Hall.

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Public Act 102-0174 requires Illinois public universities to provide cost and occupational outlook data to students at the time the student declares or changes their program of study. For related information, please visit:

<https://myillini.illinois.edu/Programs>

**YOU CANNOT GRADUATE WITH ANY TEMPORARY GRADES SUCH AS NOT REPORTED - 'NR', INCOMPLETE - 'I' OR DEFERRED - 'DF' COURSEWORK**

**SUMMARY OF COURSES WITH IN PROGRESS - 'IP', INCOMPLETE - 'I' OR DEFERRED - 'DF' GRADES**

EARNED: 17.0 HOURS

FA22	CS 100 AL1	1.0	IP	>I
FA22	CS 124 AL1	3.0	IP	>I
FA22	ENG 100 CS9	1.0	IP	>I

# IP In-Progress Courses

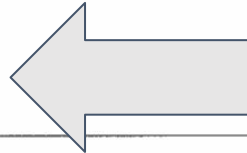
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EARNED: 17.0 HOURS

FA22	CS 100 AL1	1.0	IP	>1
FA22	CS 124 AL1	3.0	IP	>1
FA22	ENG 100 CS9	1.0	IP	>1
FA22	ENG 177 SD1	1.0	IP	>1
FA22	KIN 249 ON1	3.0	IP	>1
FA22	MATH 231 EL2	3.0	IP	>1
FA22	MATH 299 EL2	1.0	IP	>1
FA22	RHET 105 D2	4.0	IP	>1



## REQUIRED COURSES

EARNED: 17.0 HOURS

1 SUB-GROUP

NEEDS:

4 SUB-GROUPS

1) ORIENTATION AND PROFESSIONAL DEVELOPMENT

1.0 HOUR ADDED

1 COURSE TAKEN

FA22 ENG 100 CS9

1.0 IP >1

# Required Courses

## REQUIRED COURSES

EARNED: 17.0 HOURS

1 SUB-GROUP

NEEDS:

4 SUB-GROUPS

### 1) ORIENTATION AND PROFESSIONAL DEVELOPMENT

1.0 HOUR ADDED

1 COURSE TAKEN

FA22 ENG 100 CS9

1.0 IP >1

NEEDS: 1 COURSE

**SELECT FROM:** CS 210 OR 211

### 2) FOUNDATIONAL MATHEMATICS COURSES

FA22 MATH 220 3

4.0 PS

FA22 MATH 231 EL2

3.0 IP >1

**SELECT FROM:** MATH 241, 415 OR #16 OR 257

### 3) PHYSICS SEQUENCE

**SELECT FROM:** PHYS 211, 212

### 4) SCIENCE ELECTIVE

(ONE COURSE FROM THE NATURAL SCIENCE & TECHNOLOGY LIST)

FA22 CHEM 102 1

3.0 PS

FA22 CHEM 104 2

3.0 PS

### 5) COMPUTER SCIENCE CORE REQUIREMENTS

FA22 CS 124 AL1

3.0 IP >1

NEEDS: 10 COURSES

**SELECT FROM:** CS 128, 173, 222, 225, 233, 241 OR 341, 357, 361, 374, 421

1) TEAM PROJECT REQUIREMENT

NEEDS: 1 COURSE

SELECT FROM: CS 417, 427, 428, 429, 437, 465, 467, 493, 494, 497

2) SOFTWARE FOUNDATIONS

NEEDS: 3 COURSES

SELECT FROM: CS 407, 409, 422, 426, 427, 428, 429, 474, 476, 477, 492, 493, 494, 521 OR  
CS 522, 524, 526, 527, 528, 576

OR) ALGORITHMS AND MODELS OF COMPUTATION

NEEDS: 3 COURSES

SELECT FROM: CS 407, 413, 473, 475, 476, 477, 481, 482, 571 TO 576, 579, 580, 581, 583,  
CS 584, 586

OR) INTELLIGENCE AND BIG DATA

NEEDS: 3 COURSES

SELECT FROM: CS 410, 411, 412, 414, 416, 440, 441, 442, 444, 445, 446, 447, 488, 464, 466,  
CS 467, 469, 470, 510, 511, 512, 514, 540, 542, 544, 545, 546, 548, 562, 567,  
CS 576, 582

OR) HUMAN AND SOCIAL IMPACT

NEEDS: 3 COURSES

SELECT FROM: CS 409, 416, 417, 441, 442, 460, 461, 463, 464, 465, 467, 468, 469, 470, 500,  
CS 514, 562, 563, 565, 566(THROUGH SU22), 567

OR) MEDIA

NEEDS: 3 COURSES

SELECT FROM: CS 409, 414, 416, 417, 418, 419, 445, 448, 465, 467, 468, 469, 519, 545, 565,  
CS 567

OR) SCIENTIFIC, PARALLEL AND HIGH PERFORMANCE COMPUTING

NEEDS: 3 COURSES

SELECT FROM: CS 419, 435, 450, 457, 466, 482, 483, 484, 519, 554, 555, 556, 558

OR) DISTRIBUTED SYSTEMS, NETWORKING, AND SECURITY

NEEDS: 3 COURSES

SELECT FROM: CS 407, 423, 424, 425, 431, 435, 436, 437, 438, 439, 460, 461, 463, 483, 484,  
CS 523, 524, 525, 537, 538, 562, 563

OR) MACHINES

NEEDS: 3 COURSES

SELECT FROM: CS 423, 424, 426, 431, 433, 437, 484, 523, 526, 533, 534, 536, 541, 584, 588

3) ALL TECHNICAL ELECTIVES

500 LEVEL CS COURSES OR "CS-LIKE" COURSES FROM  
OTHER DEPT MAY BE USED WITH PERMISSION

NEEDS: 18.0 HOURS 6 COURSES

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**COMPUTER SCIENCE ADVANCED ELECTIVES**

NEEDS: 7 SUB-GROUP

1) COMPUTER SCIENCE ADVANCED ELECTIVES

NEEDS: 6.0 HOURS 2 COURSES

**GENERAL EDUCATION REQUIREMENT**



Computer Science



# Focus Areas

- Software Foundations
- Algorithms and Models of Computation
- Intelligence and Big Data
- Human and Social Impact
- Media
- Scientific, Parallel, and High Performance Computing
- Distributed Systems, Networking, and Security
- Machines

• <https://cs.illinois.edu/academics/undergraduate/degree-program-options/bs-computer-science>



# General Education Requirements

## Engineering

- Composition 1 Advanced Composition
- 6 hours SBS
- 6 hours Hum/Arts
- 3 hours Natural Science
- 3 Cultural Studies Courses, W, NW, US
- 3<sup>rd</sup> level Language

PHYS 211 & 212

## CS Blended Programs

- Composition 1 Advanced Composition
- 6 hours SBS
- 6 hours Hum/Arts
- 6 hours Natural Science
- 3 Cultural Studies Courses, W, NW, US
- LAS 4th Level Language all others 3rd Level



## COMPUTER SCIENCE AND ADVERTISING REQUIREMENTS

EARNED: 18.0 HOURS

0 SUB-GROUPS

NEEDS: 63.0 HOURS

5 SUB-GROUPS

2.00 GPA

### 1) COMPUTER SCIENCE CORE

3.0 HOURS ADDED

1 COURSE TAKEN

FA22 CS 124 AL1 3.0 IP >1

NEEDS: 7 COURSES

**SELECT FROM:** CS 128, 173, 222, 225, 240, 374, 421

### 2) COMPUTER SCIENCE TECHNICAL ELECTIVES

TWO 400 LEVEL COURSES ABOVE CS 403

CHOSEN IN CONSULTATION WITH AN ADVISOR

NEEDS: 6.0 HOURS

2 COURSES

### 3) MATHEMATICAL FOUNDATIONS

ALSO FULFILLS QUANTITATIVE REASONING I AND II

8.0 HOURS ADDED

2 COURSES TAKEN

FA22 MATH 220 1 5.0 PS

FA22 MATH 231 2 3.0 PS

NEEDS: 2 COURSES

**SELECT FROM:** MATH 225 OR 257 CS 361

### 4) COLLEGE OF MEDIA FOUNDATIONS

4.0 HOURS ADDED

1 COURSE TAKEN

FA22 PSYC 100 B1 4.0 IP >1

NEEDS: 3 COURSES

**SELECT FROM:** BADM 320 ECON 102, 103 OR 302

### 5) ADVERTISING CORE

3.0 HOURS ADDED

1 COURSE TAKEN

FA22 ADV 150 AB4 3.0 IP >1

NEEDS: 24.0 HOURS 8 COURSES

**SELECT FROM:** ADV 281, 283, 284, 390, 460, 483, 461, 492

**ADVANCED COMPOSITION**

NEEDS: 1 COURSE

**UNIVERSITY FOREIGN LANGUAGE REQUIREMENT**

FA22 HSLFR 4.0 0.0 HS

**CREDIT COUNTING TOWARD TOTAL HOURS, BUT NOT USED IN ANY OTHER REQUIREMENT**

IP EARNED: 13.0 HOURS

**LIMITATIONS TO HOURS TOWARD GRADUATION**

FA22 CS 100 AL1	1.0	IP	>1
FA22 CS 105 4	3.0	PS	
FA22 ENG 177 SD1	1.0	IP	>1
FA22 HST 1--5	3.0	PS	
FA22 MATH 299 TL2	1.0	IP	>1
FA22 PHYS 2--6	4.0	PS	

**MINIMUM OF 128 HOURS REQUIRED -  
(Earned hours includes in-progress coursework;  
Hours and GPA include transfer credit).**

EARNED: 40.0 HOURS  
 0.0 GPA HOURS EARNED 0.00 POINTS  
 IN-PROGRESS 17.0 HOURS  
 NEEDS: 88.0 HOURS



**UIUC GPA  
(Only hours eligible for graduation are included)**

0.0 GPA HOURS EARNED 0.00 POINTS



**TECHNICAL GPA**



**UNIVERSITY RESIDENCY REQUIREMENT  
60 HOURS COMPLETED ON THIS CAMPUS**

EARNED: 17.0 HOURS 0 SUB-GROUPS  
 NEEDS: 43.0 HOURS 2 SUB-GROUPS

ADVANCED HOURS  
(1.0 HOUR TAKEN)

NEEDS: 20.0 HOURS  
 60 HOURS OF UIUC COURSEWORK  
 17.0 HOURS ADDED

# FYI

- DARS is a tool, it is not 100%
- Advisors can request modifications
- It assumes your IP (in-progress) courses you will successfully pass
- The 120(+) hours needed to graduate is already counting the in-progress courses
- If you do not see the courses you think you earned with AP scores you need to check with your advisor and possibly have College Board resend your scores to UIUC



# Credit/No Credit

- If it required for your major or meeting your gen ed it must be taken for a grade
- **NEW RULE** D- or higher earns credit
- You must get advisor approval and it must be approved and processed at the college level
- 
- D- or higher is considered passing and meets Prereq to move on to next course, but that doesn't mean it is the right decision

# Prereq

## Course Catalog

### Courses of Instruction

- CS Courses <http://catalog.illinois.edu/courses-of-instruction/cs/>
- CS 173 & CS 225
- CS 340 or CS 341: CS 414, CS 425, CS 427, CS 435, CS 436
- CS 341: CS 423, CS 424, CS 431, CS 437, CS 448, CS 461, CS 484
- CS 361**: CS 438, CS 440, CS 441, CS 443, CS 444, CS 446, CS 469, CS 470, CS 473
- CS 374: CS 421, CS 447, CS 474, CS 475, CS 476



# Residency & Transfer Credit

- Must complete 60 hours at UIUC
- Transferology
  - <https://www.transferology.com/index.htm>
- How to transfer credit to UIUC
  - <https://registrar.illinois.edu/academic-records/trans-credit/>





# Heather L. Zike

Undergraduate Program Coordinator &  
Academic Advisor

[hlzike@illinois.edu](mailto:hlzike@illinois.edu)



# Freshman advising

Your advisor will be reaching out real soon now!

Required

B[U]ILT

(Blacks, Indigenous, and Latinx in  
Technology)

# Blacks, Indigenous, and Latinxs in Tech

B[U]ILT



# What is B[U]ILT?

Serves to provide opportunities and services for students of the university. The opportunities created are professional, academic, and social aimed at fostering a healthy and comfortable community for underrepresented students interested in tech.



# Allies encouraged to join

Diversity is about all of us, and about us having to figure out how to walk through this world together

- **Jacqueline Woodson**



Allies are welcome and encouraged to join us at all of our events!

# B[U]ILT OFFICE HOURS

Come to Siebel 0212 to work, relax,  
play games, and hang out!

**MWF 3-5 PM**

Join the Slack!

[https://linktr.ee/  
built-uiuc](https://linktr.ee/built-uiuc)



# How to address instructors?

- How do they refer to themselves?
- How do they sign email or forum posts?
- Look at their web page
- When in doubt, guess upwards.
  - A grad student will find “Professor” flattering.
  - Formal is a safe guess if you’re not sure about informal.



# How to address instructors

- Anyone with “professor” in their title
  - Formal: Professor [lastname]
  - Informal: [firstname] or Professor [firstname]
- Post-docs, staff, lecturers with PhD
  - Formal: Dr. [lastname]
  - Informal: [firstname]
- Lecturers with master’s degree
  - Formal: Mr/Ms [firstname] (Miss/Mrs only if they explicitly suggest that.)
  - Informal: [firstname]
- TAs, CAs
  - Super formal: Mr/Ms [firstname]
  - Usually: [firstname]

# A common dilemma

- Older instructor seems to suggest you use first name
- Seriously? They are the age of my parents!
- Common solution: Professor [firstname]
- First name may be more comfortable when you know them better