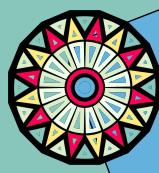


The 2026 First Year Guide



CSBA
LEHIGH

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Welcome to CSB!

Dear first-year student,

Congratulations on your acceptance to the Computer Science & Business program (CSB), and welcome to Lehigh! We are excited to have you as part of the Class of 2026. During your time at Lehigh University, the Computer Science & Business Association (CSBA) will serve as the student organization of the CSB program. Our role is to represent all students involved in the CSB program, provide opportunities for professional development, and organize social events tailored for CSB students.

This guide will not only help you plan your schedule but discusses the details (e.g., instructor recommendations, course pace, etc.) that you should consider when choosing your sections. That being said, don't be afraid to differ from our recommendations to challenge yourself. The more you push yourself, the more prepared you will be to tackle demanding tasks in the future.

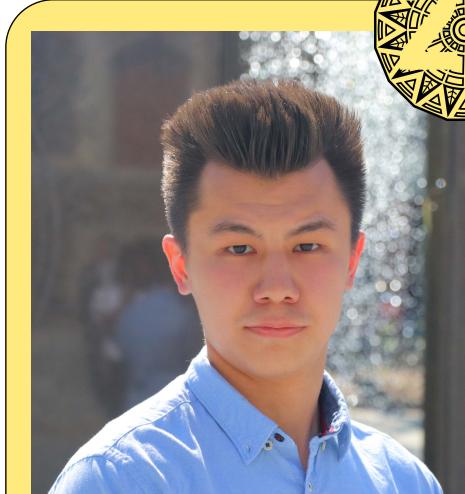
In the 2022-2023 school year, our goal is to establish a stronger sense of unity and community for all CSB students, starting with the Class of 2026. In doing this, we hope that CSB students will more strongly unify to succeed together in academic, professional, and social affairs. As the school year progresses and new classes enter the CSB program, our resources will be modified, expanded upon, and refined by the CSBA to serve you more appropriately.

If you have any questions regarding the CSB program, this guide, or anything Lehigh-related, please contact either one of us, the other board members, the CSB advisors, or your CSBA mentor.

Sincerely,



Adrian Ross
President



Alibek Kaliyev
Vice President



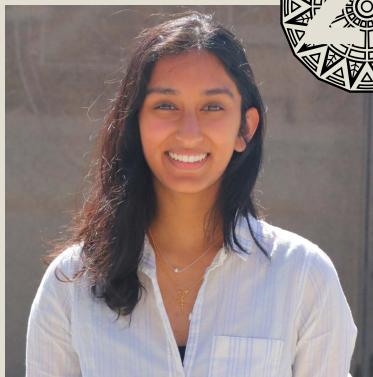
CSBA Executive Board



Alonso Cornejo
Treasurer



Carl Freyer
Public Relations



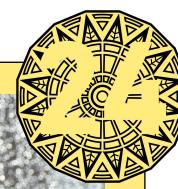
Liz Attumalil
Secretary



Kayla Kraft
**Professional
Development**



Max Colen
**Technical
Development**



Juhi Grover
**Alumni
Relations**



Evan Jenkins
**Social
Coordinator**



Post and review any questions on github. Anyone in CSB can see and reply!

<https://github.com/Lehigh-CSB>



Subscribe to our calendar to know what important events you should be looking out for around Lehigh.

<https://calendar.google.com/calendar/u/0/?cid=aW5jc2JhQGxlaGlnaC5IZHU>



Come to CSBA meetings every Wednesday at 4:30!

Learn how we are helping you and help us do better.
Location to be determined.

What to expect from CSBA

Mentorship Program

A program where you will be assigned a mentor - a current upper-class student in the CSB program. It is structured in a way that helps first-year students with a smooth transition into the CSB program at Lehigh through a series of social, professional, and technical development events along with bi-weekly meetings with their mentors. At the end of the program, each mentee will have all tools and knowledge to succeed at Lehigh and beyond.

The program structure can be viewed by the following link:

[https://docs.google.com/document/d/1pjEoheXrlzp9ZYbUKmMRqLZxe1k48QzdTgLj_UaFh9c/edit?
usp=sharing](https://docs.google.com/document/d/1pjEoheXrlzp9ZYbUKmMRqLZxe1k48QzdTgLj_UaFh9c/edit?usp=sharing)

Events: Expect several CSB-geared events, including Career Expos, talks with companies representatives, and fun social events! These will give you a chance to make important connections and learn what companies are looking for.

Hackathons: We're planning some hackathons where students across all majors at Lehigh can collaborate and bring their ideas to the table. We'll also keep you updated on hackathons that are happening across the country.

Internships: We'll keep everyone updated on internship opportunities that will help you enhance your skills and get you more experience.

CSBA E-Board contact information

Adrian Ross: amr424@lehigh.edu

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Alonso Cornejo: dac323@lehigh.edu

Carl Freyer: ckf225@lehigh.edu

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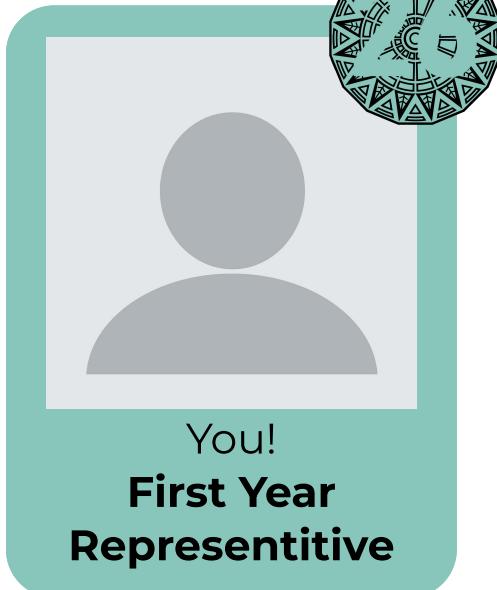
Kayla Kraft: kak524@lehigh.edu

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Juhi Grover: jug225@lehigh.edu

Evan Jenkins: eaj224@lehigh.edu

First Year Representative



The First Year Representative (FYR)

- Act as the **representative** of the class of 2026.
- **Plan events** to help the class of 2026 learn, grow, and meet each other.

“ With my first year remote, I was lucky enough to have Sam Sausvile, CSBA President at the time, and former FYR, as my CSBA mentor and cheerleader to hype me to where I am. As FYR: **I supported event planning and skill development opportunities and strived to foster community during the ‘year of the zoom.’** With CSB ‘24, **we started the CSBA Discord, had game nights, did a mini-tech-dev project, and helped each other in study sessions.** I had a great time doing it, was humbled for everyone who put their trust in me, and still try to represent the Class of 24 a little extra in everything I do.”

— **President** Adrian Ross

“ Being FYR was so much fun because I got to work with the rest of the EBoard to make our year successful! **I got a glimpse of what CSB really had to offer us. I hosted study groups during the fall semester and game nights during the summer.** It was great to see that people wanted to come together, both academically and socially.”

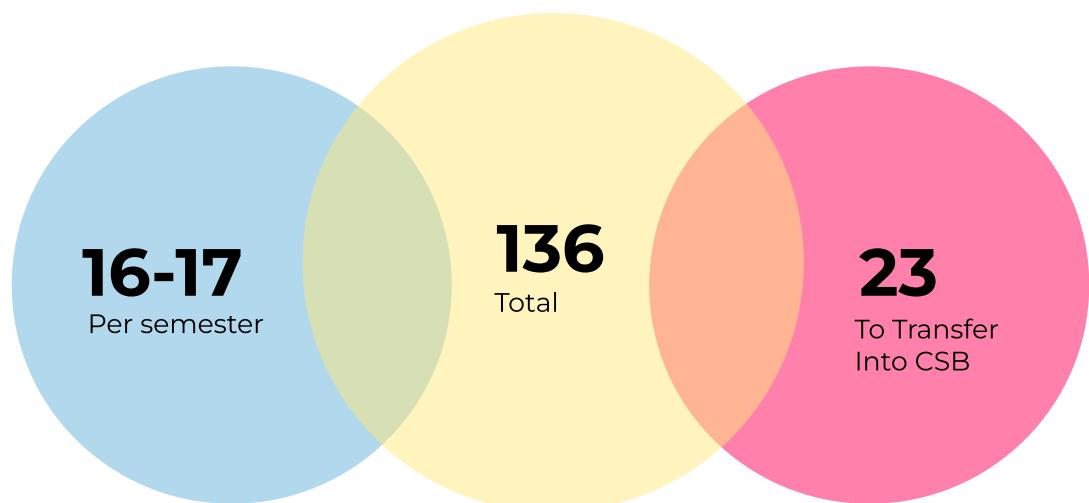
— **Secretary** Liz Attumalil

The First Year Representative is chosen by you, the first years! Applications will be **sent out on September 1st** and **due on September 15th**. If you're interested, keep this in mind!

What You Need to Know

Computer Science and Business Tracks

- Students may choose to use their CSB professional electives to develop concentrations or tracks from courses offered within the CSE department or the College of Business.
- In certain cases, the program co-directors may also approve courses from other departments.
- To look at some examples of CSB tracks, go here:
shorturl.at/afipU
- Note that it's **not required** that a student complete a track, just that students fulfill the 9-credit professional elective requirement.



Advisors

Our advisors want to help you, so feel free to **ask any and all questions you have.**

Sharon Kalafut is our CSE department advisor.
smk5@lehigh.edu

Troy Adair is our college of business advisor.
tra418@lehigh.edu

Heidi Wegrzyn is our coordinator and a great resource for CSE topics.
hew207@lehigh.edu

What You Need to Know

Opportunities at Lehigh

Our engineering school is made up of 35% women and 65% men. To close this gap, there are many clubs to look into:

- The Women's Network (TWN)
- Society of Women Engineers (SWE)
- Women in Business (WiB)
- Women in Computer Science (WiCS)

Additionally, the CSE department supports several students to attend the Grace Hopper Conference, which celebrates the accomplishments of Women in Computing.

Incoming class of 2026: 63 students

Male: 79.4%
Female: 20.6%

Study Abroad!

CSB allows students to study abroad in Nice and Barcelona.

Study in Nice

Students will spend the summer in Nice, France and take two CSE courses (109 and 398). You'll experience the beautiful city of Nice, the beaches of the South of France, and authentic French cuisine!

Study and Intern in Barcelona

This internship program focuses on learning Spanish culture and business protocol within a local Barcelona company. Students will be exposed to a global, cultural, and business environment. You'll be paired up with families in Barcelona. No need to know another language!

Registration Information

Registration Is very important! It is much easier to complete your degree when you take the right classes at the right time!

Important things to note:

- As a member of CSB, you have special permissions, so you can register **15 minutes early**.
- Your advisor will reach out with a pin for you to register for classes.
- Your **advisor should give you a list of classes to take** this fall. Use it!

We want to stress that, for registration, **ask your mentor** if you'd like advice in helping with classes! They've been through the registration process at least twice **and** they have a good idea about good professors for courses.

Plan Ahead Feature

When you already know what classes you want to take, use the Plan Ahead feature in Banner! When it comes time to register, you can just click on that plan. Here's an instructional video for how to use this feature:

<https://www.youtube.com/watch?v=tXfhQzbzNak>

We recommend that you make a main plan **and** a backup plan in case you don't get your first pick. This backup plan can have the same classes at different times, or even some different classes.

Natural Sciences

These are some of the common options for the natural sciences prerequisite and lab chain. This does not complete the necessary 12 credits, so you will need to take additional classes beyond one of these chains. Go here to see a few more variations of these:
shorturl.at/mrLMO.

Astronomy

PHY 010 (4) General Physics I with **PHY 012 (1)**
ASTR 105 (3) Introduction to Planetary Astronomy

PHY 011 (4) Introductory Physics I with **PHY 012 (1)**
ASTR 105 (3) Introduction to Planetary Astronomy

Physics

PHY 011 (4) Introductory Physics I with **PHY 012 (1)**
PHY 021 (4) Introductory Physics II

PHY 010 (4) General Physics I with **PHY 012 (1)**
PHY 013 (3) General Physics II

Chemistry

CHM 030 (4) Introduction to Chemical Principles
CHM 031 (4) Chemical Equilibria in Aqueous Systems

CHM 040 (4) Concepts, Models & Experiments I
CHM 041 (4) Concepts, Models & Experiments II

Biology

CHM 030 (4) Introduction to Chemical Principles
BIOS 041 (3) Biology Core I: Cellular and Molecular

Earth & Environmental Sciences

EES 021 (3) Introduction to Planet Earth with **EES 022 (1)**
EES 131 (4) Introduction to Rocks and Minerals

EES 025 (3) The Environment and Living Systems with EES 022 (1)
EES 152 (4) Ecology

Humanities and Social Sciences

Students are required to take a total of **6 Humanities credits** and **3 Social Science credits**. Most of these courses are 3 or 4 credits so these requirements can be fulfilled in, usually, 1 or 2 classes. Dance classes and Religion classes are known to be the easiest.

Humanities

- Africana studies
- Architecture
- Art
- Asian studies
- Classics
- Design
- English
- Ethics
- Film studies
- Global studies
- History
- Languages (Arabic, Chinese, French, German, Greek, Hebrew, Japanese, Latin, Russian, Spanish)
- Music
- Philosophy
- Religion
- Theatre
- Women, Gender, and Sexuality studies

Social Sciences

- Africana studies
- Anthropology
- Asian studies
- Classics
- Communication
- Environmental studies
- History
- International Relations
- Jewish studies
- Political science
- Sociology
- Sustainable development
- Women, Gender, and Sexuality studies

First Year Classes

Fall: 16.5 credits

CSE 007 (3)

Intro to Programming that uses Java, which is needed for most CSE classes. **Don't need any prior programming experience.** Best professor: **Ziltz**. If you have credit, take CSE 017 (3). **No prerequisites.**

MATH 021 (4)

AKA Calculus I. If you have AP Calculus AB credit, take **MATH 022 (4)**. **No prerequisites.**

ENGL 001 (3)

Focuses on critical reading and writing. You can get credit from an AP English exam or SAT/ACT score. If you have credit, consider taking a **free elective**. **No prerequisites.**

ECO 001 (4)

Intro to Economics. This is the prerequisite for almost every business class. **Prof. Gunter** is a harder professor but has great lectures. If you have credit from AP Macro and AP Micro, take **ECO 045 (3)**. **No prerequisites.**

BUS 001 (1)

Gives a general overview of how a business functions. Not a very difficult class, and there are many professors. **No prerequisites.**

BUS 003 (1.5)

Teaches you how to communicate and write in a business environment. Also tries to help you find a purpose through the "Purpose Project", which is only in some classes. **Writing intensive, but useful.** There are many professors, but you may be restricted to **CSB only** sections. **No prerequisites.**

Spring: 17 credits

CSE 017 (3)

Focuses on Java data structures. Also is a prerequisite for most CSE classes. Both Ziltz and Oudghiri are great professors. If you already have credit, take **CSE 109 (3)**. **Prerequisite: CSE 007 (3)**

MATH 022 (4)

AKA Calculus II. If you have AP Calculus BC credit, take **MATH 205 (3)**. If you need a class level override, **ask your advisor**.

Prerequisite: MATH 021 (4)

ECO 045 (3)

Business Statistics. A lot of overlap with AP Statistics, but graphing calculators can't be used during tests. Best profs are **Yang** and **Richards-Subik**, but don't fret if you can't get them. **No prerequisites.**

MGT 043 (3)

Organizational Behavior. Mainly focuses on applications of management theories. The final project, especially, is writing intensive. You mostly have professors giving good examples to understand the topics so pay attention to those. **No prerequisites.**

NATURAL SCIENCES (3)

The Environmental Sciences track is known as the easiest if you're not coming in with AP credits. If you have AP credit for Physics, try the non-engineering physics sequence.

NATURAL SCIENCES LAB (1)

Completes the CSB lab requirement.

Second Year Classes

Fall: 14 credits

CSE 109 (4)

Uses C and C++ to focus on low-level programming. Difficulty in the CSE chain starts to pick up with this class. Erle is good because he preps students best for CSE 202, but Montella has been the only one teaching recently. **Prerequisite: CSE 017 (3).**

MATH 205 (3)

Linear Algebra and Differential equations. Congrats, this is your last math class! If you've already completed this, consider taking **CSE 140 (3)**. **Prerequisite: MATH 022 (4).**

ACCT 151 (3)

Financial Accounting. The tests can be a time crunch so prioritize studying for them. Best profs: **Manzo and Gupta**, but **Manzo** is difficult. **No prerequisites.**

NATURAL SCIENCES (3)

NATURAL SCIENCES LAB (1)

Completes the CSB lab requirement.

Spring: 18 credits

CSE 241 (3)

Databases. Best prof: **Korth** because he made the book. There's another version you can take called **CSE 341 (3)**. Only take this if you're looking to go to graduate school. **Prerequisite: CSE 017 (3).**

CSE 216 (3)

Software Engineering. You're put in a group and you get to try every role for every phase of the project. Best prof: **Stephen Lee-Urban**. Better for landing an internship in the summer. **Prerequisite: CSE 017 (3).**

CSB 311 (3)

Bridges the gap between CSE and Business. If you're going to Prague, **take it now**. If not, take this in third year spring and replace this with a **Natural Science**. Read the book, do the homework. Great for interviews. **Prerequisites: ACCT 152 (3), CSE 241/341 (3).**

CSE 140 (3)

Intro to the logical side of programming. Pay attention in class because it builds the foundation for CSE 340, which is important for technical interviews. Best prof: **Hassan**. **Prerequisites: MATH 021 (4), CSE 017 (3, co-requisite).**

ACCT 152 (3)

Managerial Accounting. Best prof: **Manzo** but again, he's difficult. You really can't go wrong with professors. **Prerequisite: ACCT 151 (3).**

NATURAL SCIENCES (3)

Third Year Classes

Fall: 14.5-17.5 credits

CSE 340 (3)

Extremely important for technical interviews. Best profs: **Korth, Carr.**

Prerequisites: MATH 021 (4), CSE 140 (3), CSE 017 (3).

CSE 262 (3)

Overview of several programming languages. Usually an easier CSE course. Best prof: **Montella** because he's the easiest but lately, **Spear** has been the only instructor. **Prerequisite:** CSE 017 (3).

BUS 203 (1.5)

Prerequisites: BUS 003 (1.5), CSB 311 (3).

FIN 125 (3)

Intro to Finance. **Prerequisites:** ACCT 151 (3), ECO 045 (3), MATH 021 (4).

MKT 111 (3)

Overview of the Marketing field. You need to memorize a lot for this class. Best prof: **Savino**. **Prerequisite:** Eco 001 (4).

HUMANITIES (1 - 4)

Take a class that will help you get closer to finishing your Humanities requirement.

Spring: 18 credits

CSB 312 (3)

First Capstone class. **Note!** Capstone classes start in the spring and end in the fall. **Prerequisites:** CSE 241/341 (3), CSB 311 (3), CSE 216 (3).

CSE 202 (3)

Low-level programming. Harder than CSE 109 so take it seriously. Best prof: **Oudghiri**. You'll deal with C and Assembly, representation of data, computer architecture, and optimization.

Prerequisite: CSE 017 (3).

SCM 186 (3)

Overview of Supply Chain Management. Shouldn't be too difficult. Best prof: **Cole** because he's easiest. **Prerequisites:** MATH 021 (4) OR MATH 076 (2), ECO 045 (3) OR MATH 231 (3).

LAW 201 (3)

Very easy business law class. Any professor is fine. **No prerequisites**.

ECO 146 (3) OR

Intermediate Microeconomics. Same material as ECO 001, except with Calculus. Best prof: **Yuval Erez**. Quite math intensive. **Prerequisites:** ECO 001 (4), MATH 021 (4).

ECO 119 (3)

Intermediate Macroeconomics. Best prof: **Yuval Erez**. **Prerequisites:** ECO 001 (4), MATH 021 (4).

Fourth Year Classes

Fall: 14.5-17.5 credits

CSE 303 (3)

Continuation of CSE 202, so take them in a sequence. You can take it next semester though, since it's a difficult class. Best prof: Hassan. Prerequisites: CSE 201/202 (3), CSE 109 (3).

CSE 252 (3)

Computer Science ethics. Intensive on writing. If you went to Barcelona, you already have this credit so take an **elective. No prerequisites.**

CSB 313 (3)

Second Capstone class. Prerequisite: CSB 312 (3).

MGT 301 (3)

Business Capstone class. **Note!** has a lot of prerequisites. Prerequisites: MKT 111 (3), ECO 146/119 (3), LAW 201 (3), FIN 125 (3), SCM 186 (3), MGT 043 (3), CSB 312 (3), CSB 311 (3), ACCT 152 (3), BUS 001 (1), BUS 003 (1.5), BUS 203 (1.5)

CSB Track/Prof. Elective (3 - 4)

Spring: 14-18 credits

CSB Track/Prof. Elective (3 - 4)

CSB Track/Prof. Elective (3 - 4)

CSE Elective (3)

Humanities (2 - 4)

Social Science (3 - 4)

Advice on Classes

Sample Schedule

This schedule is applicable and designed for those who have come in with no AP credits, but this guide still has good information for everyone. If you came in with credits, you can just shift things slightly earlier.

Anticipatory Exams

If you want to place out of introductory courses, there are several anticipatory exams offered in the first few days of class (**must pre-register**). There's no penalty if you fail, so try it! Here are the anticipatory exams offered:

- CSE 007
- CHEM 030
- PHY 011, PHY 021
- MATH 021, MATH 022
- MATH 051, MATH 052

We recommend this, especially if it'll get some Natural Science credits out of the way.

Textbooks

Many syllabi for your classes will state that textbooks are required. However, this isn't always the case - some are helpful, some are **necessary**, but others are just not used. If you're wondering whether or not to buy a textbook, ask someone who's already taken the class with that specific professor. If you're having trouble finding someone, talk to someone in CSBA to help you out.

Class-Specific

ACCT Sequence

Save **ACCT 151 & 152** for sophomore year. **Manzo** is a really good professor, but you want to take 151 with him in the fall and 152 with him in the spring. You can take the sequence in your freshman year if you come in with a lot of AP **Talk with your mentor if that's the case!**

CSE 109

We recommend that you **don't take CSE 109 and CSE 216 at the same time** but, if you do, make sure that Prof. Erle isn't your professor for both of those classes. We say this because he usually has deadlines at the same time for both classes.

CSE Sequence (202 & 303)

Try to **take CSE 202 and CSE 303 subsequently**. CSE 202 is typically taught in the spring, while CSE 303 is typically taught in the fall. 303 builds on the concepts from 202, and are both considered some of the hardest classes we have to take. Therefore, it never hurts to keep the content fresh in your mind.

Natural Science Sequence

Try to **get your Natural Science requirement done by the end of your 2nd year!** It's okay if you don't, but you need to start fulfilling more graduation requirements and electives.