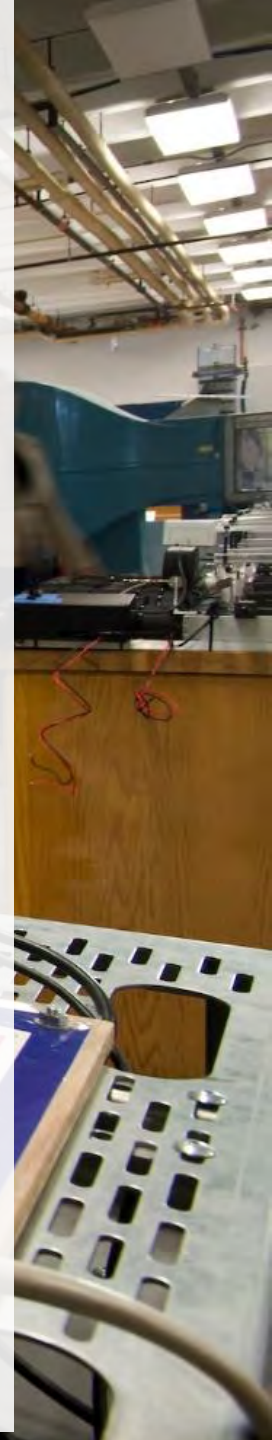
University of New Haven

Tagliatela College of Engineering

Orientation and Charge In

Spring 2025



College Overview

Office of the Dean

- Dean Ron Harichandran
- Associate Dean Stephanie Gillespie
- Operations Manager: Dionne Gray-Wilson

Chemistry and Chemical Engineering and Biomedical Engineering Department (CCBE)

- Chair: Dr. Dequan Xiao
- BS Chemistry
- BS Chemical and Biomolecular Engineering
- MS Biomedical Engineering (Dual Degree)

Civil and Environmental Engineering Department (CEE)

- Chair: Dr. Byungik Chang
- BS Civil Engineering
- Sustainability Minor

Engineering and Applied Science Courses (EASE)

- Coordinator: Professor Eric Brisart
- BS Engineering
- EASC courses
- Entrepreneurial Mindset in STEM Certificate

Electrical and Computer Engineering and Computer Science Department (ECECS)

- Chair: Dr. Ali Golbazi
- BS Electrical and Computer Engineering
- BS Computer Science
- BS Cybersecurity

Mechanical and Industrial Engineering Department (MIE)

- Chair: Dr. Ganesh Balasubramanian
- BS Mechanical Engineering

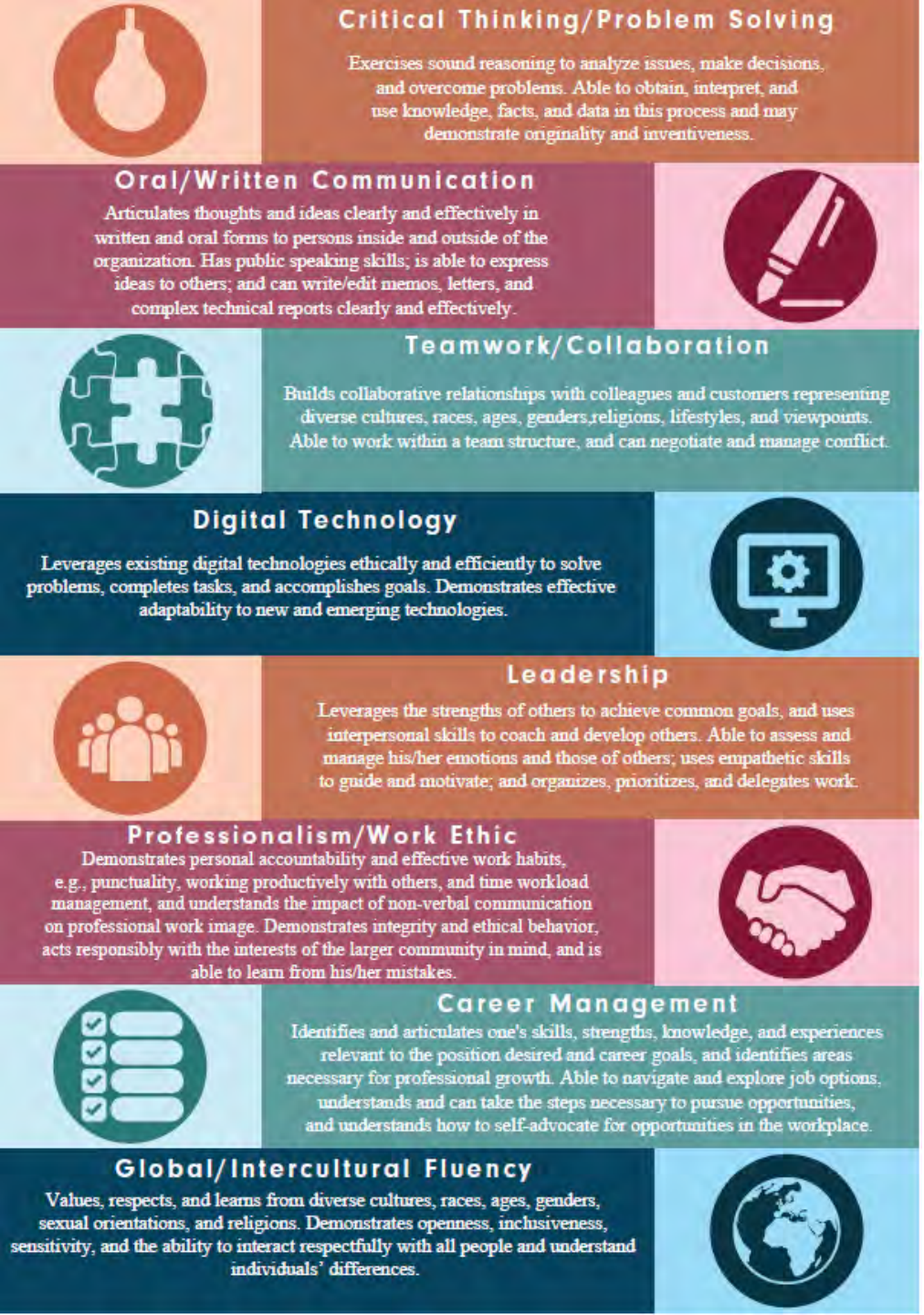
First Semester Curriculum

Engineering

- Introduction to Engineering
- Calculus 1
- General Chemistry 1 or Physics 1
- Seminar in Academic Inquiry and Writing (English)
- Introduction to Communication

Computer Science and Cybersecurity

Introduction to Computing
Introduction to C Programming
Seminar in Academic Inquiry and Writing (English)
Pre-Calculus or Calculus 1
Core Curriculum Course



Your education is more than technical

"[My biggest mistake is probably] weighing too much on someone's talent and not someone's personality. I think it matters whether someone has a good heart."

- Elon Musk

NACE Top 8 skills desired by employers [1]

Nine Core Curriculum Competencies*

- 1: Written Communication
- 2: Oral Communication and Presentation
- 3: Mathematical and Quantitative Literacy
- 4: Scientific Exploration
- 5: Critical Thinking and Problem Solving
- 6: Historical Perspectives
- 7: The Individual and Society
- 8: Global and Intercultural Awareness
- 9: Perspectives on Creative Arts

*Some Core competencies are pre-assigned with specific Math and Science Courses required for your degree program.

University Core Curriculum

Classroom Technology- TCoE Laptop Policy

TCoE classes utilize a variety of technology and software during the class periods. We provide the software, but you will need to have a compatible laptop for the duration of your studies.

All Engineering Students:

- Windows PC, Intel i7 processor, 16 GB or more RAM, 1TB or more SSD, Dedicated Graphics Card

Computer Science and Cybersecurity & Networks Students:

- You have the option to purchase a Windows or Mac computer (check your email).

Chemistry Students:

- No laptop required, but most college courses will benefit from personal ownership of a laptop.

Important to note for all academic programs: Chromebooks and Surface in S-mode tablets cannot run all required software and services and are not recommended.

POWER ON

Differences between high school and college

	In High School	In College
Class Time Expectations	You are generally introduced to content during class time	May have to read or watch videos in advance of coming to class, class is for discussion
Homework and Studying Expectations	Homework given regularly, may have class time to work on it	Homework weekly, but is fully outside of class hours. Plan for at least 6 hours of outside of class time for study/hw per course
Asking Questions	You usually have time during class to ask questions	If a class is busy, you will have to go to office hours with the professor or TA to ask questions
If you don't succeed on the first time…	You may be given a chance to resubmit your homework or retake an exam	A low grade stays in your grade calculation. Need to study before you start getting low grades

Faculty-Student communication is key to academic success

- Every course has a **syllabus** provided within **Canvas**, our learning management platform, where you can find contact information for faculty members and information about the expectations for each course. Communicate with your faculty through email and faculty office hours.

- Professors will provide feedback to students on their work, provide grades with **Canvas** and share additional academic reminders through **Navigate**. Students should monitor Canvas and Navigate closely and watch for email communication from faculty.

Academic Advising and Assistance

In TCoE

- Pre-Registration Meetings with Faculty each Semester
- Faculty Office hours in person and through Zoom
- Peer Assistants

Throughout the University

- MathZone- walk-in appointments, tutors, and customized curriculum
- CSS: Center for Student Success
- CLR: Center for Learning Resources
- CDC: Career Development Center
- ARC: Accessibility Resource Center

How to meet with your advisor

Level Undergraduate **Classification** Junior **Major** Cybersecurity and Networks **Program** Bachel

Advisor Liberty Page (Primary) **Student Status** Active **Academic Attribute** Honors **Overall GPA**

Undergraduate Catalog Year 2020-2021

- Confirm your academic advisor in DegreeAudit or Navigate
- Faculty will send out emails with sign-up links or information for pre-registration advising (~October + February/March)
- Some faculty have enabled self-signup of office-hours appointments via:
  - Navigate
  - Email links such as youcanbookme or calendly
- Send an email, or stop by their office during office hours.

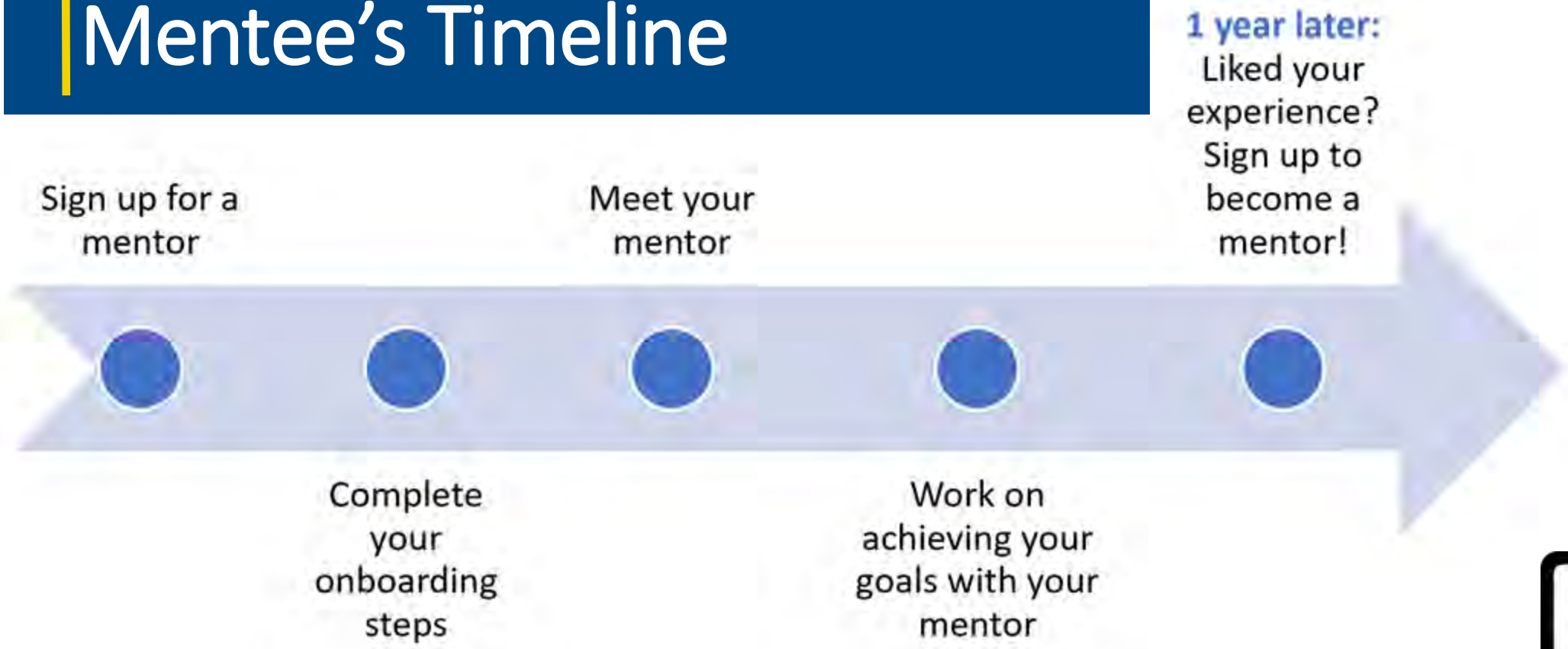
WELCOME TO THE *FIRST YEAR MENTORSHIP PROGRAM!*

MENTOR COLLECTIVE

Some ways a mentor can help you

- Offer **insight** on which campus resources they found most useful
- Share tips on how to manage **financial or academic stressors**
- Give advice on **networking effectively** when looking for friends, or navigating the internship market
- **Share** study habits that worked for them
- Help their mentee with **balancing work, school, and life** to graduate with their intended degree

Mentee's Timeline



bit.ly/NHFYEmentee

SCAN ME

Dual-Degree Signup ends 1/28

- Get your BS + MS in a shorter length of time with the dual-degree program
- Academic advising starts in your first year to make sure you are setup for graduate coursework as a senior

- Must opt-in by end of Add/Drop period (1/28) by emailing Rob Holub (rholub@newhaven.edu)

1 Year

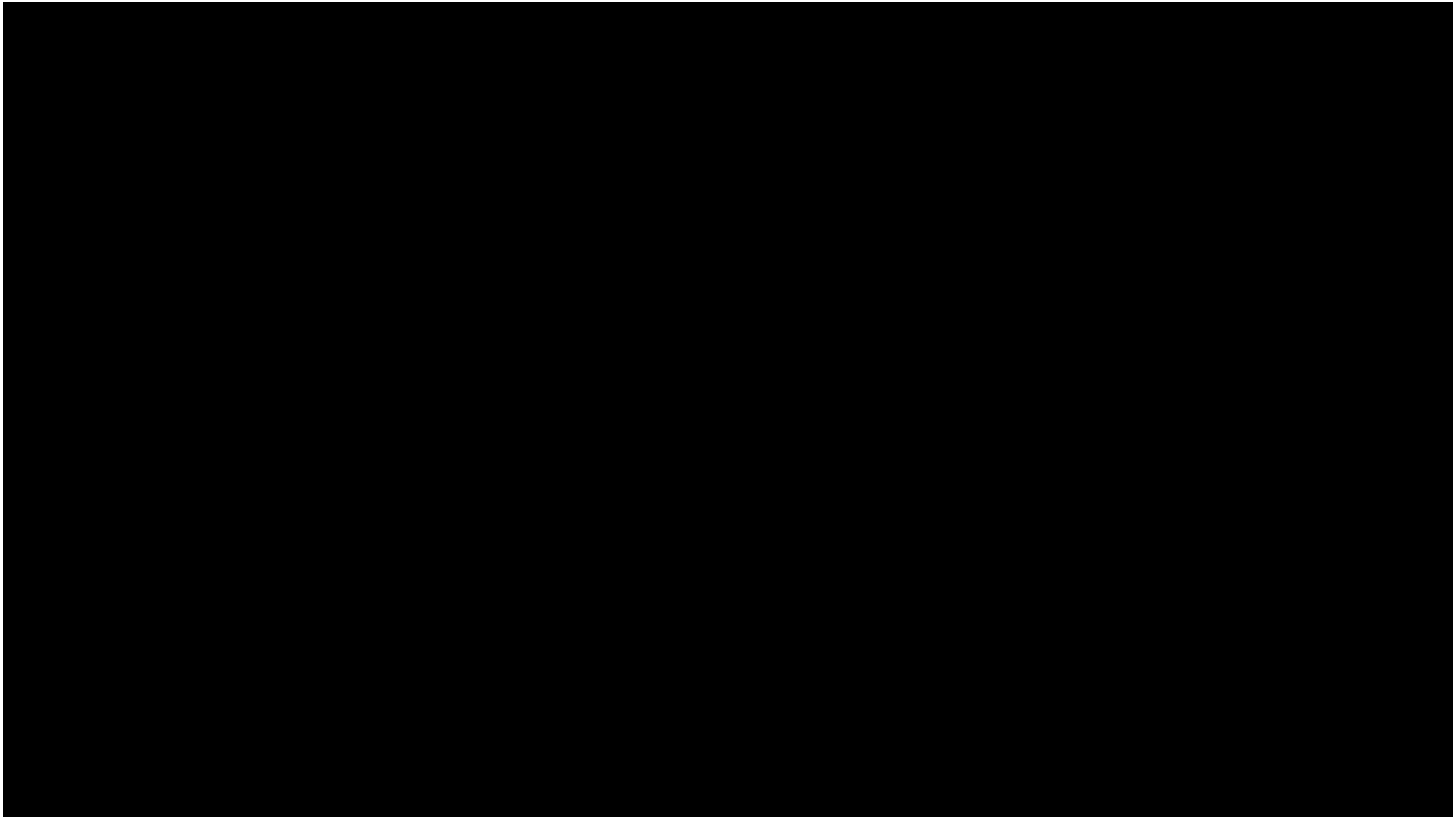
Average time saved over obtaining degrees separately.

$30k

Estimated additional salary for students obtaining a Master's degree.

$60k

Estimated average value of entering the workforce one year early.



Quick Thinking Design Sprint

- Can you identify a problem, propose a solution, and convince industry judges yours is the best, all within 8 hour?
- CSCI 1109 and EASC 1107 integrates this as a part of the course- save the date now for February 8th!
- Complete part of your EM in STEM Certificate now!
- To signup for more information about the EM in STEM certificate- email Dr. Stephanie Gillespie (sgillespie@newhaven.edu)

Exploring Your Entrepreneurial Mindset

- Meet your peers and explore your mindset with EM BINGO
- You can ask each person only two questions- they will respond yes or no. If they respond yes, that defines them, you can mark the space off.
- Try to stay with someone until you each mark off a space on the other's board if possible.

Join me in the front of the room when you complete 2 BINGO rows (vertical, horizontal, diagonal) for a prize!

https://bit.ly/3mpFiLE

What does your first day of college look like?

- Check your schedule and room assignments- things get updated!
- Check your email and check Canvas
  - Remote vs On-Ground vs Online class assignments, what to bring to class
- Set your alarms and plan time for meals
- Leave early and plan to get there 5 minutes early

What should you do during your first classes?

- Pay attention to the syllabus overview- each class has different policies
- Interact and engage with your peers. Find a study buddy or group
- Ask questions if you are confused
- Embrace new technology and styles of teaching- it may be different from high school

What happens over the first week?

- Attend all of your classes
- Put homework due-dates on your calendar
- Obtain necessary class supplies, including textbooks
- Get used to checking email every day (at a minimum)

- Email your academic advisor if you need to change courses, or stop by CSS drop-in hours

Making it a successful first week

- Find your resources on campus
- Visit office hours to meet the faculty
- Start your study habits
- Find ways to get involved
- Meet new people
- Find your groove

What will the semester look like?

- Typically 1 or 2 exams during the course, and 1 final exam
- Many classes also have a final project or report
- Be prepared to have multiple hw assignments with various due dates. Many classes have homework every week.

- You will probably have at least one bad grade
  - You can recover from a negative academic experience, but better to over-prepare and avoid it all together!

Important Dates

- Tuesday Jan 21- Classes Begin!
- Tuesday Jan 28- Last day to add/drop a class
- Friday March 7- Midterm grades due by faculty
  - Expect exams the week before
- Sunday March 9– Sunday March 16- Spring break (no classes)
- Friday April 4- Last day to withdraw from a class.
- Monday May 5- Last day of class
- Tuesday May 6 - Reading Day
- May 7-May 13- Final exams.
  - Check your final exam schedule before booking travel for the send of semester.

Accelerated Terms (*MiniTerms*) vary slightly, calendars can be found at: https://www.newhaven.edu/academics/calendar/

Because college isn’t the goal, a career is!

Prepare now for your future career

Get involved- build experiences for your resume!

- Leadership roles in professional student organizations
- Student club competitions
- Attend panels and events with industry representatives

The big events:

- Fall Career Fair
- Spring STEM Career Fair
- Internships: typically after junior year
- PE licensure

Learning and Belonging Outside the Classroom

Diversity Organizations

- Society of Women Engineers (SWE)
- Society of Hispanic Professional Engineers (SHPE)
- National Society of Black Engineers (NSBE)
- Women in Cybersecurity

Professional Organizations

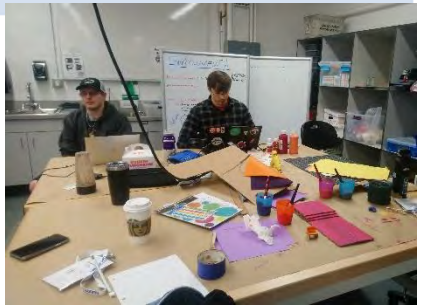
- ACS (Chemistry)
- AIChE (ChemE)
- ASCE (Civil)
- ASME (MechE)
- Engineers Without Borders (EWB)
- IEEE (ElecEng.)
- IISE (Ind. & Syst. Eng)
- Robotics Club
- Hacking Team

Honor Societies

- Eta Kappa Nu
  - ECE
- Pi Tau Sigma
  - MechE
- Theta Tau
  - all Engineering
- Upsilon Pi Epsilon
  - CompSci

General Opportunities

- Makerspace
- Engineering Student Ambassadors
- EASC Course Peer Assistants
- Summer Undergraduate Research Fellowship (SURF)



College Professionalism

Courses

- Attendance is expected- check your syllabus
- Cameras may be used for participation, exams, etc.
- Have questions? Check the syllabus first!

Emails

- Address emails to Professor X or Dr. X (avoid Mr., Ms., Mrs., or FirstName)
- Most faculty members respond with 24 hours, but it isn't instant. Weekend responses vary.
- Keep your email private- if your parents want to email, they should use their own account (don't share your password)

Grades

- It is okay to ask for clarification on how an assignment was graded
- Grading concerns should be brought to the professor first, then the chair, then the Associate Dean.

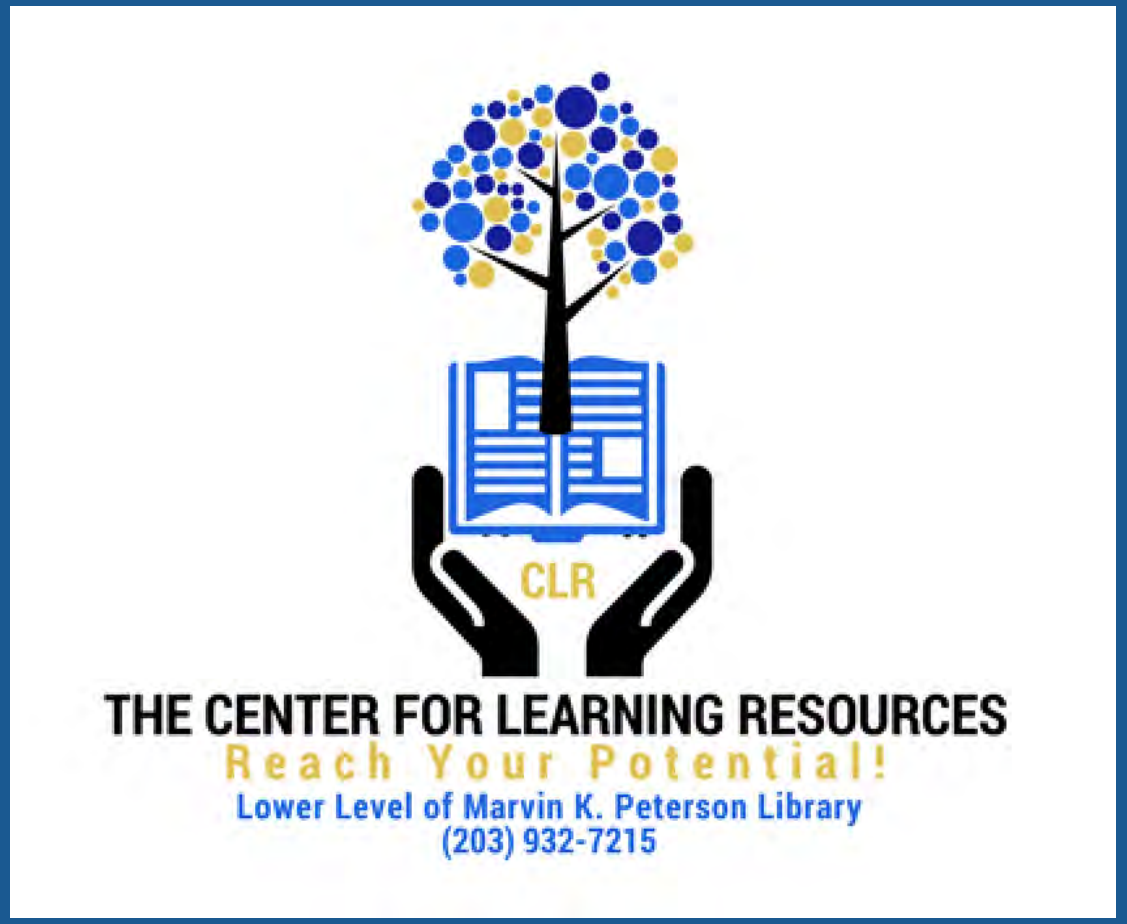
University of New Haven Resources

- Help with general study habits or college success: **Center for Student Success (CSS)**
- Need accommodations to be successful in courses: **Accessibility Resource Center (ARC)**
- Help with course materials: **Faculty Office Hours, Peer Assistants, Center for Learning Resources (CLR)**
- Need help with starting a term paper, grammar, or "too wordy" essays: **Writing Center**
- Uncertain what courses to take or how to fill out registration related forms: **Academic Advisors**
- Hungry or missing meals: **Campus Pantry**
- Need clothing for an interview: **Career Closet**
- Someone to listen- stress, anxiety, mental health, etc.: **Counseling and Psychological Services**
- Don't know where to start: **TCoE Associate Dean**
- Report bias, inappropriate conduct, etc.: **Report It forms or Dean of Students**

Supplies available for check-out from Dean's Office: Graphing and Non-Graphing Calculators, Padfolios (for interviewing), Arduino Kits, Laptops*

The Center for Learning Resources provides complimentary academic content support to all University of New Haven graduate students. We offer peer and professional mentors in a variety of subjects to graduate students.

Make an in-person or remote (Zoom) appointment with us via the Navigate App. Walk-ins are always welcome.



ARC

Who is the Accessibility Resource Center?

The department on campus tasked with supporting students who have chronic health related disorders, specific disabilities, and military service-connected disorders.

They also assist students who incur temporary medical conditions which impact their ability to attend to their academics.

The Role of ARC

- If you have a disability or chronic medical condition, DO NOT WAIT until it has negatively impacted your grades before you register with ARC to receive accommodations. Accommodations can help prevent you from receiving low grades and their consequences.
- Accommodations are not retroactive, and if you wait, we may not be able to fix a situation caused by your waiting to ask for help.
- International Students: contact both UIS and ARC If you have a temporary disability or chronic health related situation arise and need assistance. If an international student is unable to meet the full-time enrollment requirements of the visa because of health-related problems, they must seek accommodations from the Accessibility Resources Center (ARC)

Sample ARC Accommodations

What kind of accommodations can you expect?

Permanent accommodations are based on the functional limitations of your specific disability so they will be tailored specifically for your needs.

- Some common permanent accommodations include classroom access accommodations (accessible classroom, use of computer for taking notes, etc.) and exam accommodations (extended time, quiet environment).

Temporary accommodations are also based on specific disabling condition and are specifically tailored.

- Some common temporary accommodations include a reduced course loads with approval of UIS, use of accessible van service, flexible attendance, extended deadlines for assignments due during a hospitalization or symptomology flare, test make up.

TCoE Professional Enrichment Program (PEP)

- Your success in your degree is based on involvement and effort both in and outside of the classroom
- Most TCoE programs have adopted the PEP initiative, which will require you to engage in events or activities outside of the classroom
- 16 units of activities before graduation, will be tracked through Canvas
- Aim for 2 PEP-approved events per semester.
- Events may include professional speakers, research seminars, skill-development workshops hosted by student organizations or Career Development Center, etc.

Your advisor will follow check-in on your progress each year. Start early or senior year will be busy!

Keeping in Touch

Be on the lookout for a follow email from the Tagliatela College of Engineering with this presentation and signup links for our mentoring program!

Send your questions to:

Dr. Stephanie Gillespie,

Associate Dean, TCoE

sgillespie@newhaven.edu