



University of
New Haven

Welcome to **SOAR**

STUDENT ORIENTATION
ADVISING & REGISTRATION



University of
New Haven

SOAR

Tagliatela College of Engineering (TCoE)

College Overview

Office of the Dean

Dean Ron
Harichandran

Associate Dean
Stephanie
Gillespie

Assistant to the
Dean: Paula
Hackenjós

Chemistry and Chemical
Engineering and
Biomedical
Engineering Department
(CCM)

Chair: Dr.
Dequan Xiao

BS Chemistry

BS Chemical
Engineering

MS Biomedical
Engineering
(Dual Degree)

Civil and Environmental
Engineering Department
(CEE)

Chair: Dr.
Byungik Chang

BS Civil
Engineering

Sustainability
Minor

Environmental
Engineering
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
and Networks

Mechanical and
Industrial Engineering
Department

Chair: Dr. Kagya
Amoako

BS Mechanical
Engineering

What does it mean to be a student in the Tagliatela College of Engineering?

Engineering Students

Introduction to Engineering

Calculus 1

General Chemistry 1 or Physics 1

Seminar in Academic Inquiry and Writing

Introduction to Communication

Computer Science and Cybersecurity & Networks Students

Introduction to Computing

Introduction to C++ Programming

Seminar in Academic Inquiry and Writing

Pre-Calculus or Calculus 1

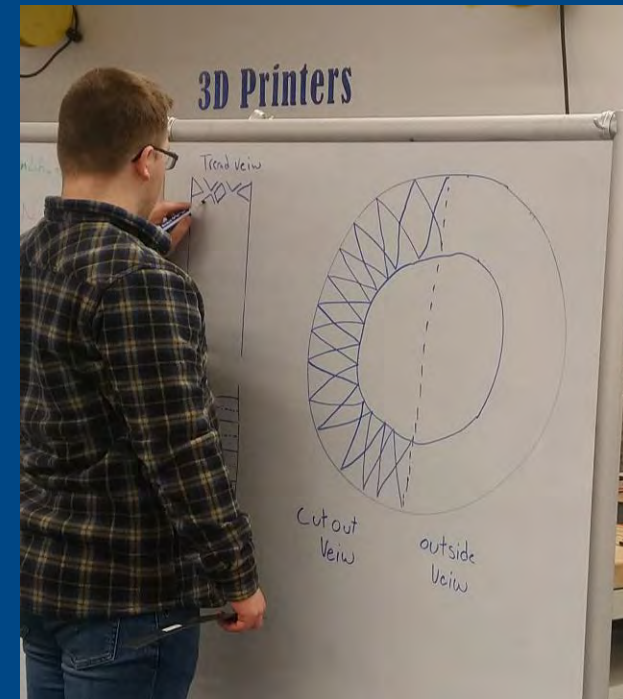
Core Curriculum Course

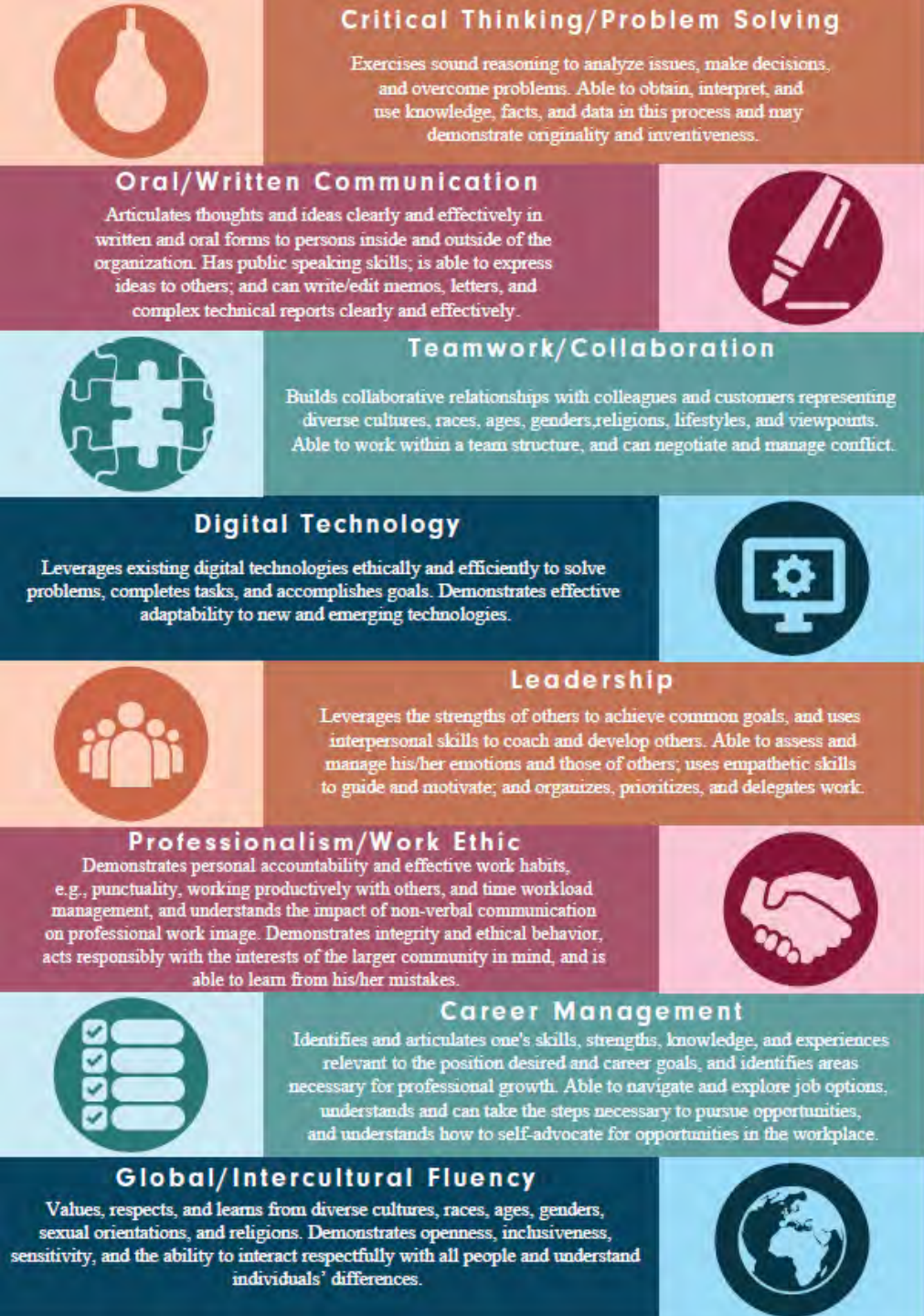


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First Semester Curriculum





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

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.



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University Core Curriculum

Math Matters

All of our programs utilize math early and often. Placement tests aim to assess your prior knowledge so you don't start in a course too easy, or too challenging

- If you are not starting in the “expected” math course, you may need to catch-up or you won't be able to graduate in 4 years.
- Not happy with your placement? You can:
 - Make sure we have your AP test results or college class transcript
 - If MATH 1110 placement, enroll in the Summer Bridge program. Check your email for details.
 - Study the available course materials online for MATH 1107/1110, and take your challenge test (August 2nd).
 - **Accelerate** through MATH 1110 + MATH 1115 in the fall semester with the Math Zone.



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

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- You have the option to purchase a Windows or Mac computer. For more guidance on purchasing your computer go [here](#). Note we do not recommend the 2021 MacBook Pro with Monterey OS due to a chip memory-leak issue that causes issues with some necessary 3rd-party software.

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.

Before classes start

- Charge- In and Orientation sessions week before classes start
- Academic advisor may be available during email, but expect delays
- Review your academic worksheet or degree audit for previous of all required courses in your program

Once classes start

- Visit faculty during office hours, or make an appointment
- Academic advising for Spring course registration will happen in October- must book an appointment to be able to register



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**Getting
acquainted to
your academic
program**

How to meet with your advisor

Level Undergraduate Classification Junior Major Cybersecurity and Networks Program Bachelor
Advisor Liberty Page (Primary) Student Status Active Academic Attribute Honors Overall GPA
Undergraduate Catalog Year 2020-2021

- Confirm your faculty 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.



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



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Academic Advising and Assistance



Connect with a Peer Mentor

TCoE First Year Mentoring program

- Incoming students are mentored by sophomores and juniors (transfer mentors available)
- Mentor/mentee pairing is based on interests of both parties
- Texting, meeting in person, or emails – you choose how often you talk and for what reasons. Start building connections **this summer!**

Signup link: bit.ly/NHFYEmentee

Note this program is separate from the mentoring program sponsored by the Myatt Center for Diversity and Inclusion.



SIGN UP FOR A PEER MENTOR TODAY **NEW HAVEN FIRST YEAR MENTORSHIP PROGRAM**

Mentoring Program Exclusive to the Tagliatela College of Engineering

As a UNewHaven student, you have access to a trained mentor to discuss topics such as:

- UNH opportunities such as student organizations and activities
- Balancing school, work, and personal life
- Academic advice such as course selection
- Helpful school resources available to you

Who is your mentor?

Your mentor is a peer in the College of Engineering who will provide one-on-one support as you complete your studies.

SIGN UP FOR A MENTOR TODAY:

bit.ly/NHFYEmentee



“I want to be able to be there for someone if they need it. I want to be able to tell someone that I am there for them and have them know that I mean it no matter what.”

- New Haven Student Mentor

*Tips for being a successful
engineering student from
Day 1*

Differences between high school and college

	In High School	In College
Class time expectations	You are general introduced to content during class time	You are often expected to read or watch videos in advance of coming to class, where you will discuss content in depth
Homework and studying expectations	You will be given homework regularly, and often have class time to start working on it	Homework is almost always outside of class. Plan for at least 6 hours of outside of course time for study/homework per class
Asking questions	You usually have time during class to ask questions	If a class is busy, you may need 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 chances to re-submit your homework or re-take an exam.	A low grade stays in your grade calculation. You should be studying BEFORE you get low grades.

Learning happens outside of the classroom too

Diversity Organizations

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



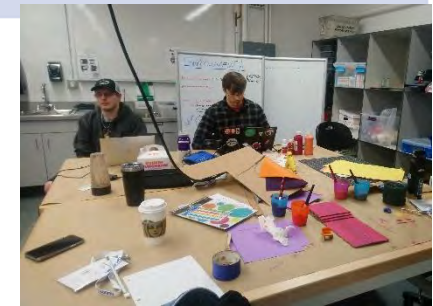
Professional Organizations

- 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)

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



Experiential Education (ExEd)

Internship course a required part of the curriculum, typically 200-300 hours of work in relevant industry.

Culminating capstone experience to combine your academics with industry-sponsored projects

Other experiences for hands-on learning include labs, service-learning courses, and more.



Entrepreneurial Mindset Certificate in STEM

- Silver Level: Exploration
- Gold Level: Participation
- Platinum Level: Demonstrated Leadership

Events

- LLC Discussion Dinners
- 24-Hr Design Sprints
- University Innovation Fellowship Program
- EASC 4420: Entrepreneurial Concepts for Engineers and Scientists
- Alvine New Venture Pitch Competition



Interested? Email Dr. Gillespie at sgillespie@newhaven.edu to get updates and info.

Your four-year college to career plan

First Year:

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- Create your LinkedIn Profile

Third Year:

- Begin to choose technical electives
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- Update your resume from HS to College
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Fourth Year

- Capstone design experience
- Job applications or grad school applications
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Dual Degrees

Interested in also earning a MS Degree?

To enter the direct-entry dual-degree program and ensure proper advising, you must opt-in before add/drop (first week of school).

If students do not opt-in now, their next window will be junior year

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UNewHaven Academic 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), MathZone**
- 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**

UNewHaven Support Resources

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

College Professionalism – Courses

Courses

- Attendance is expected, even in “remote” courses
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Grades

- It is okay to ask for clarification on how an assignment was graded.
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- Note we cannot discuss academic grades or educational records with family members unless FERPA release is signed each academic year.

College Professionalism – Emails

Emails

- Most university communication is via email. Excuses of “I didn’t see the email,” don’t count in college. Start a habit of checking your email every day!
- Address emails to Professor X or Dr. X (avoid Mr., Ms., Mrs., or FirstName)
- Check spelling and write in complete sentences before sending an email
- Most faculty members respond within 24 hours, but it isn’t instant. Weekend and Summer responses vary.
- Use the university contact list in Outlook to find an email address for a student, faculty, or staff.
- You are responsible for ensuring the privacy of your email address and account access. You should not be sharing your email password with your parents or having them send emails through your email on your behalf.

Student Questions

**Practice asking questions
now!!**

This is your time, what didn't I cover that you have questions about?



Study Abroad in Engineering

Spring 2024 Cohort: First Year Students will continue to take math, science, and engineering or computing courses and stay on track to graduate.

Explore another country, embed yourself in another culture, and enhance your learning experience.

Next steps: start your application now!

[Prato Semester application](#)



ANNIE DENGLER '21
Major: Civil Engineering
Study Abroad: Prato, Italy



“Best experience of my life.

My favorite thing I did while studying abroad was Skydiving over the Swiss Alps. It was definitely the craziest but most exhilarating thing I’ve ever done in life. I thought I was gonna die but I’m still alive to tell the story and send you this picture. Switzerland is absolutely gorgeous and to be able to view it all from the sky was absolutely incredible.”

Keeping in Touch

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Dr. Stephanie Gillespie,
Associate Dean, TCoE

sgillespie@newhaven.edu





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Tagliatela College of Engineering (TCoE) for Families

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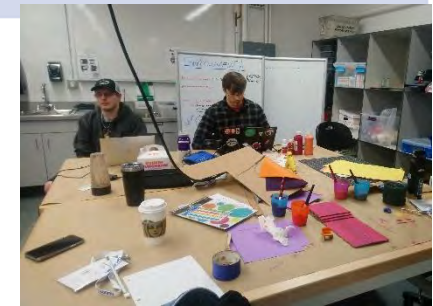
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- Students don't get involved, missing out on making friends, study groups, and meeting faculty.
 - We recommend they join 1-2 student organizations in their first semester, ideally a TCoE student org
- Students feel like no one cares because their professors/advisors don't respond to email immediately
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