WELCOME TO CBEE!

CHEMICAL, BIOLOGICAL, & ENVIRONMENTAL ENGINEERING
CBEE Advising

Kimberly Compton
Head Undergraduate Advisor

Lindsay Wills
Undergraduate Advisor

Located in Johnson Hall 116
Appointments from 9am-3pm
Walk ins available 3pm-4pm
Today’s Agenda

- Advising
- Majors/Degree
- Important Information
- Registration!
Advising Expectations

Advisor:
• A friendly, professional resource
• Accurate and timely advice
• Check degree progress
• Assistance clarifying academic and career goals
• Referrals to campus resources

Student:
• Schedule regular appointments
• Timely communications
• Take responsibility for your degree
• Check progress via MyDegrees
• Put courses in MyDegrees Planner
• Provide honest feedback
• Ask questions
Advising Policies

• Advising appointments are required once per term minimum to obtain registration PIN (30-minute appointment)

• Late policy:
  • Students more than 5 minutes late may need to reschedule
  • Students more than 10 minutes late must reschedule and will be marked as a no show

• No show policies:
  • No penalty for 1st no show
  • 2nd and more no shows will result in withholding PIN for registration
Advising Practices

• Make Advising Appointments On-line:
  • http://cbee.oregonstate.edu/undergraduate-advising

• When you arrive at the appointment, sign in at the iPad in the front office.

• Update MyDegrees planner before your appointment.
Academic Standing & GPA Requirements

Assessed each term
Students in Pro School must meet both OSU and COE requirements

OSU Academic Standing (Pre)

**Academic Warning:** OSU Term GPA less than 2.0

**Academic Probation:** Cumulative OSU GPA less than a 2.0 and has attempted at least 24 credits

**Academic Suspension:** On academic probation and receives an OSU term GPA less than 2.0

COE Academic Standing (Pro)

**Academic Warning:** Pro GPA less than 2.25 and less than 10 credits of Pro coursework

**Academic Probation:** Pro GPA less than 2.25 and has attempted at least 10 credits

**Academic Suspension:** On academic probation and receives a Pro term GPA less than 2.0
Academic Requirements & Deadlines

- Last day to drop a class is the end of the 1st week of term.
- Last day to withdraw from a class is the end of the 7th week of term.
- Satisfactory/Unsatisfactory (S/U) grading is available for some Bacc Core courses.
  - S/U grading requires advisor approval and must be completed by the end of week 7.
- Failing classes:
  - Failed classes can be taken again, but the 2nd take will permanently apply to GPA.
  - Passing classes of the 3rd+ attempt will count towards fulfilling the requirement for Pro School, but will have no impact on GPA.
CHE/BIOE/ENVE Curriculum

• Students generally earn their CBEE B.S. degree in 4 or 5 years
  • Study abroad or internships may extend the degree completion date

• CHE/BIOE/ENVE programs require 192 total credits

• Baccalaureate Core courses are required for each program at OSU

• Some courses are required for admission to Professional School (Pro School)
  • All 300/400 level engineering courses are Pro School restricted

• Minimum GPA required for Pro School entrance
Professional School

• Admission Requirements
  • Students in the College of Engineering’s CBEE Professional school have completed all of the 1st and 2nd year courses with a minimum GPA of 2.8 in designated courses.
  • Students must attain a C or better in all Pre-Core coursework
  • Pre Core GPA calculator available at engineering.oregonstate.edu/pro-school
  • Pro-School course work is sequential and dense, so taking courses ahead of time or out of sequence is nearly impossible.
Pro School Admission Cycles

• Application Cycles:
  • Summer (August 1-31) = Fall Admission
  • Winter (November 1-30) = Winter Admission
  • Spring (May 1-31) = Summer Admission

• Application is available online.

• Register for Pro School courses after acceptance.

• All Pre-Core courses must be completed or in progress before applying to Pro School. NO EXCEPTIONS.
Transfer Courses

• All transfer courses must be approved by OSU’s registrar or your Academic Advisor.
  • Seek pre-approval for courses from your advisor where possible

• Some transfer courses come to OSU as “LDT” (lower division transfer) or “UDT” (upper division transfer).
  • See your advisor to determine if these can count towards degree requirements.

• You can monitor your course equivalencies through your degree audit on MyDegrees.

• Single-course equivalencies:
  • https://admininfo.ucsadm.oregonstate.edu/prod/OSU_ADMTAM.P_tcs_splash_page
Chemical Engineering Is...

- A branch of engineering that focuses on chemical processes.
- The study of systems where heat and fluid flow are coupled with chemical reactions.
  - Ex. Natural systems: human body, ground water, ocean, atmosphere
  - Ex. Man-made systems: chemical reactors, electronics manufacturing, petroleum refining
- A path to opportunities to help society by:
  - Developing new products and technologies.
  - Supplying society with thousands of chemicals for economic well-being.
# CHE 4-Year Plan

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<th>Credits</th>
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<td>Physics w/ Calculus PH 211 (4PWS)</td>
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- **Credits** used in GPA calculation
- **Pre-requisites for Pre School classes not used in GPA calculation**
- **Engineering & Advanced Chemistry Electives**
- **Baccalaureate Core course not covered by major requirements (S/U grading allowed)**

OREGON STATE UNIVERSITY 13
CHE Employment Opportunities

The chemical engineering curriculum provides students with a background of fundamental knowledge that prepares them for positions in research and development, design, technical service, plant operation, technical sales, and management.

Employers of OSU CHE alumni include:

- Battelle
- Bechtel
- Boeing
- Boise Cascade
- Chevron USA
- CH2M
- Dow Chemical
- Exxon
- Frito-Lay
- Gallo Winery
- Genentech
- Georgia Pacific
- Hercules Chemicals
- HP Inc.
- Intel
- Kapstone Paper
- Lonza (formerly Bend Research)
- Louisiana Pacific Co.
- LSI Logic
- 3M Company
- Merck
- Mitsubishi Silicon
- NYPRO OREGON
- ON Semiconductor
- Cascade Pacific
- Proctor and Gamble
- Pyrotek
- Siltronic
- Teledyne Wah-Chang
- Tektronix
- Thermo Fisher
- Union Oil
- US Bureau of Mines
- Verdezyne
- Wafer-Tech
- Weyerhaeuser
Bioengineering Is...

• A branch of engineering that focuses on the application of biological and chemical processes.

• A broad profession that allows people to work in the biomedical, pharmaceutical and bio-production fields.

• A path to opportunities to help society by:
  • Developing new medical products and technologies.
  • Advancing the biological production of new products and materials.
# BIOE 4-Year Plan

<table>
<thead>
<tr>
<th>Credits</th>
<th>First Year = 46 credits</th>
<th>Second Year = 51 credits</th>
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- Pre-core classes used in GPA calculation
- Pre-requisites for core school classes not used in GPA calculation
- Engineering Electives (6 credits Bioengineering, 9 credits restricted engineering electives)
- Baccaulaureate Core course not covered by major requirements (S/U grading allowed)
BIOE Employment Opportunities

The biological engineering undergraduate program provides a solid background in biology (anatomy and physiology, biochemistry, molecular and cellular biology), chemistry, physics and math, in addition to the engineering sciences.

Employers of OSU BIOE alumni include:

- Acumed
- Acrymed
- Amgen
- Anheuser Busch
- Bayer
- Beaver Biodiesel
- Bend Research
- Berlex Laboratories
- Biotronik
- Boston Scientific
- Dimer
- Electrical Geodesics Inc.
- Entek
- Gallo Winery
- Genentech
- Hemcon
- HP Inc.
- Lonza (formerly Bend Research)
- OHSU
- Oregon Freeze Dry
- Oregon Medical Laser Center
- Sarepta (AVI BioPharma)
- Siga
- SolarWorld
- Thermo Fisher
Environmental Engineering Is...

• A branch of engineering that focuses on physical, chemical, and biological processes to limit environmental impacts.

• A multidisciplinary profession that allows people to deal with a wide range of environmental problems.

• A path to opportunities to help society by:
  • Developing new sustainable practices.
  • Reduce impacts to air, water, and soil.
  • Promoting reuse, recycling, and reduction.
# ENVE 4-Year Plan

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- Pre-requisites for Pro School classes not used in GPA calculation
- Engineering Electives
- Baccalaureate Core course not covered by major requirements (S/U grading allowed)
ENVE Employment Opportunities

The environmental engineering program provides undergraduate students with the background necessary to study air, water, and subsurface environmental problems. Coursework includes analysis and design of water and wastewater treatment systems, sustainable water resources, and air pollution control technologies.

Employers of OSU ENVE alumni include:

CH2M
CH2M Hanford Group
City of Troutdale
ET Technologies Inc.
Geo Trans Inc.
JE Dunn NW
Professional Services Industries (PSI)
SCS Engineers
Shaw Environmental, Inc.
US Department of the Navy
US Forest Service
US Public Health Service
Wallis Engineering
Weber Elliott Engineering
W & H Pacific
WRG Design
What do successful CBEE students do?
What do successful CBEE students do?

• Make connections with their faculty, establishing relationships that encourage involvement, career development and learning. This includes informal leadership roles.

• Take a lot of notes.

• Do not procrastinate.

• Utilize all that Student Affairs offers (Health Services, Counseling services, Career Services, etc.).

• Set goals and work toward them in systematic and healthy ways.

• Manage their time well, schedule for courses early and set aside time to study.

• Have back-up plans when needed and persist through difficult courses and circumstances.
Student Resources

• Academic Learning Centers
  • Mole Hole (CH)- Valley Library 3rd floor
  • Worm Hole (PH)- Weniger 334
  • Math Learning Center (MTH)- Kidder 108 & Valley Library 3rd floor
  • Vole Hole (BI)- Weniger 139
  • The Major Groove (BB)- ALS 2018
  • Undergraduate Research & Writing Studio (WR)- Valley Library main floor
• Academic Success Center (ASC)
• Student Health Services (SHS)
• Disability Access Services (DAS)
• Counseling and Psychological Services (CAPS)
Undergraduate Internships & Research

- Summer Internships (on campus and off-site).
  - Johnson summer internship.
- Multiple Engineering Cooperative Program (MECOP), two 6-month internships in industry (CHE & ENVE).
Student Clubs & Activities

Solar Car

OsU TAPPI

Cbee club

Engineering Without Borders

Ambassadors
THANK YOU AND WELCOME TO CBEE!