

First Year		Sophomore Year		Junior Year		Senior Year	
See Advising Note 7	CEE 420 Envr Eng Gateway 3	See Advising Note 6	CEE 520 ETS, Envr P&C 4	CEE 505 Intro Sust Engr 3	CEE 720 Waste Mgmt & Remed 3	CEE 620 One Water Engr 4	CEE 797 Intro Project Plan. 2
ENGL 401 WS, 1st Yr Wrtnng 4	CEE 402 2D CAD 3	See Advising Note 10	CEE 403 GIS for CEE 3	See Advising Note 8	CEE 650 Fluid Mech 4L	CEE 724 BS, Envr Micro 4L	CEE 721 Envr Sampling 4L
See Advising Notes 1, 2	PHYS 407 PS, Physics I 4L	See Advising Note 12	CHEM 405 Chem for Engrs 4L	See Advising Note 9	CEE _____ Elective 3-4	ESC1 654 Fate & Trans Envr 4	CEE 723 Envr Eng Chem 4
Math 425 QR, Calculus I 4	Math 426 Calculus II 4	CEE 502 Project Engr 3	Math 527 Diff Eq & Lin Alg 4	See Advising Note 13	Math _____ Statistics Elective 4	See Advising Note 15	CEE _____ Design Elective 3-4
Sem: Cr Grade e.g. L-Lab F23, S24	This is the recommended order of Discovery courses. Choose carefully when pursuing dual majors, minors, cognates, and study abroad. One of these courses must also fulfill IQ (Inquiry)						
HUMA Humanities 4	FPA Fine/Perf Arts 4	HP Hist Persp 4	SS Social Science 4	WC World Cultures 4	INQUIRY		
These blank boxes to be used for extra courses and courses required for minors or dual majors.							

**BSENV/Sustain. Dual Major**

- ☐ SUST 401 ☐ 501 ☐ 750  
☐ NBS Elec: CEE 520  
☐ SSH Elec:\*  
☐ Elective 3: CEE 505  
☐ Elective 4:\*  
☐ Elective 5:\*

\*Select HUMA, HP or WC

**BSENV/Sustain. Energy Minor**

- ☐ NR 507  
☐ NR 787  
☐ CEE 505  
☐ TECH/ENG Elec: CEE 520  
☐ SEP Elec:

**BSENV/Comm. Planning Minor**

- ☐ CEP 415  
☐ CEP 508  
☐ CEP 614  
☐ Group II Elec 1: CEE 403  
☐ Group II Elec 2:

**Other Cognates, Minors, or Dual Majors**

- ☐ Course 1: \_\_\_\_\_  
☐ Course 2: \_\_\_\_\_  
☐ Course 3: \_\_\_\_\_  
☐ Course 4: \_\_\_\_\_  
☐ Course 5: \_\_\_\_\_  
☐ Course 6: \_\_\_\_\_

The CEE Department encourages you to explore cognates, minors, and dual majors. Listed here are common choices, but there are many other programs to consider. You may pursue multiple cognates, minors, and dual majors. Cognates require 12 cr, minors: 20 cr, dual majors: 32 cr. No more than 8 cr. of specified courses can be double-counted with the major. There is no limit on overlapping credits allowed between minors.

## ADVISING NOTES

## Notes for Incoming Students and about Transfer Credit

1. *AP Courses*:
  - a. *AP Calc*—AB=4/BC=3: MATH 425 optional. AB=5/BC=4: take MATH 426. BC=5: take MATH 527.
  - b. *AP Chem*—3: get CHEM 403 credit, still need 404 or 405. 4 or 5: get CHEM 403 & 404, or 405 credit.
  - c. *AP Physics*—3,4,5: get Physics 407 credit.
  - d. *AP Environmental Science*—You receive credit for NR 435 but still need to take CEE 520.
2. *MATH 418 and 425*—if MATH 418 is taken Fall of first year, all MATH courses move back one semester. MATH 418 (4 credits) cannot be used toward cumulative credits ( $\geq 19$ ) needed for graduation. If MATH 425 is taken 1<sup>st</sup> semester, try to take PHYS 407 in the 1<sup>st</sup> semester, too.
3. *Transfer Students*—To transfer into the BSENVE program, you must meet the following requirements:
  - a. be a CEPS major or have  $\geq 12$  cr of graded work at UNH, Calculus I, and either chemistry or calculus-based physics with 4 year program grades of C or better or community college grades of B or better;
  - b. have a GPA  $\geq 2.33$  overall;
 Only CEE 600- and 700-level courses with a grade of C– or better may be transferred in.
4. *Transfer Credit*—You need grades of C or better in courses taken elsewhere to receive UNH credit. Submit a Transfer Credit Prior Approval form before taking a course elsewhere. Transferred courses fulfill UNH requirements but the grades you receive elsewhere do not transfer or affect the UNH GPA.

## Notes for Ongoing Students

5. *Study Away*—You need both a UNH GPA  $\geq 2.50$  and a GPA in CEE courses also greater  $\geq 2.50$ .
6. *Writing Intensive Courses*—You must take ENGL 401, CEE 520, 620, 650, 721, and 798
7. *CEE 420 and Transfer/Advanced Students*—If you achieve junior-level status without CEE 420, or transfer from another CEPS major after taking intro course(s), petition to take a different CEPS 600-level course or higher.
8. ME 525 may be taken instead of CEE 500.
9. *Public Health Electives*—HMP 403, 501, 715\*; CEE 730 (\*has a pre-requisite that can be waived)
10. *Geospatial Science Electives*—CEE 403, CEE 404, CEE 752, NR 658, NR 757, FORT 581, or ANTH 674.
11. *Alternative Engineering Laboratory Electives (need approval by academic petition)*—CEE 665, CHE 709 or ESCI 720.
12. *CHEM 403/404 vs. CHEM 405*—You may take both CHEM 403 and CHEM 404 instead of CHEM 405 though this adds a course. If so, CHEM 403 is used instead of 405 for determining CEE 600-level qualification.
13. *Statistics Elective*—MATH 539 or MATH 644. AP Credit does not fulfill this requirement.
14. *WC Discovery Elective*—International students and students that study abroad may not have to take the World Cultures Discovery Course. Therefore, delay the WC elective until you're sure you need it.
15. *CEE 600 Level Courses*—Are restricted until students complete all double boxed courses with cumulative average  $\geq 2.00$  GPA and have an overall GPA of  $\geq 2.00$ .

## Notes for Seniors

16. *Restrictions on the Senior CEE electives*:
  - a. You must take four CEE 700-level Electives totaling  $\geq 12$  credits, at least two of which must be design electives.
  - b. You must take two water resources elective.
  - c. Electives cannot be double counted between categories.
17. *Accelerated Master's Program*—If you are a senior with a GPA  $\geq 3.20$ , you can be concurrently admitted to a UNH Master's program and some courses can count for both the BSENVE and the master's degree. A maximum of 8 cr can be accepted for a UNH MSCE. Up to 12 cr may be accepted for other master's degrees.
18. *Minimum Required Credits*—130 credits are required. If you meet the BSENVE requirements with fewer credits, you must make up the difference with additional credits. Any UNH or transfer course is acceptable to do so.

## 700-LEVEL CEE ELECTIVES, SEE ADVISING NOTE 16

Course #	Course Title	Credits	Design	Non-Design	Water Resources	Sustainability
CEE 703	Site Design and Project Development <sup>F</sup>	3		✓		
706	Environmental Life Cycle Assessment <sup>F</sup>	3		✓		✓
719	Green Building Design <sup>F S</sup>	3	✓	✓		✓
729	Sources, Controls, Air Pollution <sup>S*</sup>	4	✓	✓		
732	Solid and Hazardous Waste Design <sup>S S*</sup>	4	✓	✓		
733	Public Infrastructure Asset Management <sup>F</sup>	4		✓		✓
751	Open Channel Flow <sup>S</sup>	3		✓	✓	
753	Snow Hydrology <sup>S</sup>	3		✓	✓	
754	Engineering Hydrology <sup>S</sup>	3		✓	✓	
755	Design of Press Water Trans Systems <sup>S S</sup>	4	✓	✓	✓	
758	Stormwater Management Designs <sup>S F</sup>	3	✓	✓	✓	
759	Stream Restoration <sup>S</sup>	4	✓	✓	✓	
ESCI 705	Principles of Hydrology	4		✓	✓	
ESCI 710	Groundwater Hydrology <sup>S</sup>	4		✓	✓	
ESCI 720	Ocean Measurements Lab <sup>L F</sup>	4		✓		
ME 706	Renewable Energy <sup>S S</sup>	3	✓	✓		✓
CHBE 705	Fossil Fuels and Renewable Energy <sup>L S</sup>			✓		✓
NR 602	Natural Resource, and Environ. Policy <sup>F S</sup>	4		✓		
OE 720	Design of Aquaponics Systems <sup>F</sup>	3	✓	✓		
OE 757	Coastal Engineering <sup>S</sup>	3		✓	✓	
OE 758	Design of Ocean Structures <sup>S</sup>	3	✓	✓		

<sup>S</sup> Advanced prerequisite, <sup>L</sup> Lab, <sup>F</sup> Typically offered in Fall, <sup>S</sup> Typically offered in Spring, \* Typically offered every other year

## ENVE PROGRAM COURSE AVAILABILITY

New #	Course Title	Fall	Spr
CEE 420	Environmental Engineering Lectures I	x	
CEE 500	Statics	x	x
CEE 502	Project Engineering	x	
CEE 505	Introduction to Sustainable Engineering		x
CEE 520	Environmental Pollution and Protection	x	x
CEE 620	Fund. Aspects of Envr. Engr.		x
CEE 650	Fluid Mechanics	x	
CEE 720	Solid and Hazardous Waste	x	
CEE 721	Environmental Sampling	x	
CEE 723	Environmental Chemistry	x	
CEE 724	Environmental Engr. Microbiology*		x
CEE 731	Advanced Water Treatment Processes <sup>S</sup>		x