

College of Engineering & Computational Sciences

B.S. Environmental Engineering ~ Advising Flowchart ~ 2013-2014

Freshman Year

(See back for legend and list of Environmental Electives)

PAGN101 0.5 F
Phys. Ed. I

LAIS100 4 FS
Nat. & Hmn. Values

CHGN121 4 FS
Prin. Chemistry I

CSM101 0.5 FS
Fr. Seminar

GEGN101 4 FSs
Earth & Env. Syst.

MATH111 4 FSs
Calc. I
Pre: Precalc

PAGN102 0.5 S
Phys. Ed. II
Pre: PAGN101

CHGN122 4 FSs
Prin. Chemistry II
Pre: CHGN121

PHGN100 4.5 FSs
Physics I
Pre: MATH111
Co: MATH112

MATH112 4 FSs
Calc. II
Pre: MATH111 (≥C)

EPIC151 3 FSs
Design I

Sophomore Year

PAGN2XX 0.5 FS
Phys. Ed.

LAIS200 3 FS
Human Systems
Pre: LAIS100

EGGN250 1.5 FS
MEL I
Pre/Co: EENG281

PHGN200 4.5 FSs
Physics II
Pre: PHGN100 (≥C)
Co: MATH213

MATH213 4 FSs
Calc. III
Pre: MATH112 (≥C)

CEEN241 3 FSs
Statics
Pre: PHGN100
Co: MATH112

CHGN209** 3 FS
Intro. Chem. Thermo
Pre: CHGN121, MATH111,
MATH 112, PHGN100

PAGN2XX 0.5 FS
Phys. Ed.

EBGN201 3 FSs
Prin. of Econ.

EENG281 3 FSs
Intro. Circuits
Pre: PHGN200

MATH225 3 FSs
Diff. Eqn.
Pre: MATH213/223/224

CEEN311 3 FS
Mech. of Mat.
Pre: MNGN241

EPIC251 3 FSs
Design II
Pre: EPIC151

Junior Year

Free 3 FSs
Elective

BIOxxx 3FSs
Biology Elective***

CEEN301 3 FS
Env. Sci. & Eng. I
Pre: CHGN122,
MATH213

MEGN351/ GEGN351
Fluid Mech.
Pre: MNGN241

CSCI260/261 2/3
Fortran or C++

MEGN315 3 FSs
Dynamics
Pre: MNGN241,
MATH225

Envir. 3 FSs
Elective

LAIS/EBGN 3FSs
Elective I

EGGN350 1.5 FS
MEL II
Pre: EGGN250
Pre/CO:MEGN351, CEEN311

CEEN302 3 FS
Env. Sci. & Eng. II
Pre: CHGN122,
MATH213

CEEN303/482 F/S
EvEng/Hydro Lab
Pre: CEEN301/302

MATH323 3 FSs
Prob. & Stat. I
Pre: MATH213/223/224

Senior Year

Free 3 FSs
Elective

LAIS/EBGN 3 FSs
Elective II

Envir. 3 FSs
Elective

Envir. 3 FSs
Elective

CEEN481 3FS
Intro Hyd&WatRes
Pre: CEEN301

EGGN491 3 FS
Senior Design I
Pre: CEEN330,
EPIC251

CEEN330 3 s
Field Session
Pre: CEEN301

Free 3 FSs
Elective

LAIS/EBGN 3 FSs
Elective III

CEEN492 3 FSs
Envir. Law
Pre: CEEN301/302

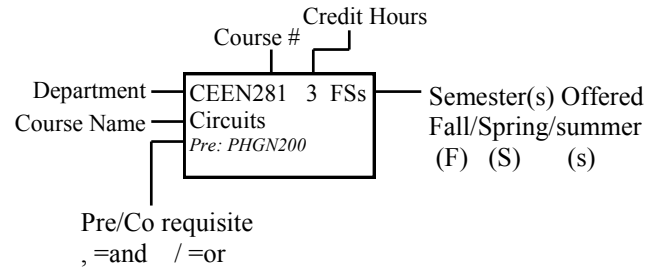
Envir. 3 FSs
Elective

EGGN492 3 FS
Senior Design II
Pre: EGGN491

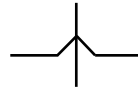
**CBEN210 and MEGN361 may substitute for CHGN209

Environmental Electives

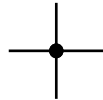
Legend



Shows lines crossing over but not connecting



Shows lines crossing and connecting together



Concurrent Enrollment Allowed
 (Arrow points toward course with pre/co requisite requirement)



All students pursuing the Environmental Specialty are required to take CEEN 301 and CEEN 302. These courses are prerequisites for many 400 level Environmental Specialty courses. In addition students are required to take five courses from the following list:

CEEN461	Fundamentals of Ecology
CEEN470	Wastewater Engineering
CEEN471	Water Supply Engineering
CEEN472	Onsite Water Reclamation and Reuse
CEEN474	Solid Waste Minimization and Recycling
CEEN475	Site Remediation Engineering
CEEN476	Pollution Prevention: Fundamentals and Practice
CEEN477	Sustainable Engineering Design
CEEN480	Environmental Pollution: Sources, Characteristics, Transport and Fate
CEEN482	Hydrology & Water Resources Laboratory
CHGN403	Intro. to Environmental Chemistry
GEGN466	Groundwater Engineering

Students should consult their faculty advisor for guidance on course substitutions

***Biology Electives

BIOL110	Fundamentals of Biology I
CHGN462	Microbiology & the Environment II
CEEN461	Fundamentals of Ecology