

# CENG CEEV

**Cohorts  
admitted in  
2017 and 2018  
(incl. Direct  
Entry students  
admitted to  
Year 2 in 2019)**

## CEEV Depth&Electives (9 credits)

CEEV Electives x 1 [3] chosen from:  
CENG4140 Energy Resources, Conversions and Technologies  
CIVL4470 Air Quality Control and Management  
ENVR3110 Sustainable Development  
ENVR3220 Energy Resources and Usage  
*(Note: CEEV graduates must take 1 of these 4 electives to qualify for HKIE Scheme A training in Environmental Discipline)*

For other elective choices, refer to program catalog.

Environmental  
Control [3]  
CENG4710

Environmental Impact  
Assessment [3]  
CENG4720

## Final Year Project (6 credits)

[6] CENG4920 (Capsone)  
Or [6] CENG4930\* (Research)  
Or [6] CENG4940 (Co-op)

## Lab (4 credits)

Chemical & Environmental  
Engineering Lab [4]  
CENG3950

## Research Option (6 credits)

[6] CENG4980 x 2

## Credit Requirement

**CENG Major: 79-83**

*(6 credits of double-counting allowed)*

**CEEV Major: 88-92**

*(9 credits of double-counting allowed)*

**Common Core: 36**

Pre-requisite →

Co-requisite - - - - ->

**CENG-only requirement**

**CEEV-only requirement**

Fall Offering

Year Long

Spring Offering

Offering in both semester

## Introduction (6 credits)

[For CEEV] Intro to Envr. Engg.  
[3] CENG1700

Or

[For CENG] Materials Sci.  
[3] CENG1500

Intro. to BME  
[3] BIEN1010

Or

Intro. to CBE  
[3] CENG1000

Also satisfies engineering intro course requirement

## ChE Design (12 credits)

Plant Design & Econ.  
[3] CENG4130

Process Dyn. & Control  
[3] CENG3110/4120

Process Int. and Design  
[3] CENG3120

Process & Product Design  
Principles [3] CENG2110

## ChE Science (15 credits)

Separation  
Process  
[3] CENG3210

Heat and Mass  
Transfer  
[3] CENG3220

Fluid Mech.  
[3] CENG2220

Reaction and  
Reactor Engg.  
[3] CENG3230

CBE Thermo.  
[3] CENG2210

## Others (6 credits)

Industrial Training  
(modules throughout 4 years)  
[0] CENG1980

Academic &  
Professional  
Development  
[0] CENG1010  
& CENG4020

Tech. Comm.  
II [3]  
LANG4035

Engineering  
Seminars  
[0] ENGG1010  
& ENGG2010

Tech. Comm.  
I [3]  
LANG2030

## Math. & Science (30-34 credits)

Intro to Comp [3-4]  
COMP1021 or  
COMP1022P or  
COMP1022Q or  
COMP2011

Biology [3]  
LIFS1901/1902/2040  
/2210 or BIEN2610

Linear Algebra & ODE  
[3] MATH2350

Calculus I [3-4]  
MATH1012/1013  
/1023

Multivariable  
Calculus  
[3] MATH2011

Calculus II [3]  
MATH1014/1024

Or  
Acc. Calculus  
[4] MATH1020

General Phys. I [3]  
PHYS1112/PHYS1312

General Chemistry I +  
lab [3+1]  
CHEM1010/1020 +  
CHEM1050

Organic  
Chem. [3]  
CHEM2111

Analytical  
Chem. [3]  
CHEM2311

Chem.  
Lab. [1]  
CHEM2155/  
2355