

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