

Electives (12 credits)

CENG Electives x 4 chosen from:

Area 1: Chemical Process Design

- CENG 4130 Plant Design and Economics
- CENG 4140 Energy Resources, Conversions and Technologies
- CENG 4620 Bioproducts and Processing
- CENG 4630 Food Processing Technology
- CENG 4670 Pharmaceutical Engineering
- CENG 4710 Environmental Control

Area 2: Chemical Product Design

- CENG 4540 Nanomaterials and Applications in ChE
- CENG 4640 Biomolecular Engineering
- CENG 4650 Biomaterials, Drug Delivery and Tissue Engineering
- CENG 4660 Introduction to Biomicrosystem
- CENG 4950 CHEM-E-CAR (Pre-approved elective)
- CHEM 2311 Analytical Chemistry

Final Year Project (6 credits)

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

Lab (4 credits)

Chemical & Environmental
Engg Lab
[4] CENG3950

Research Option (6 credits)

[3] CENG4980 and
[3] CENG4980 or any
5000-level course in
CENG or BIEN)

*Students taking the
Research Option must
take CENG4930

Credit Requirement

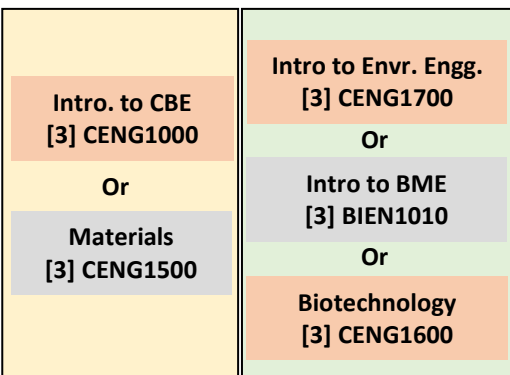
CENG Major: 87-91
Common Core: 36
(9 credits of double-counting allowed)

Pre-requisite →

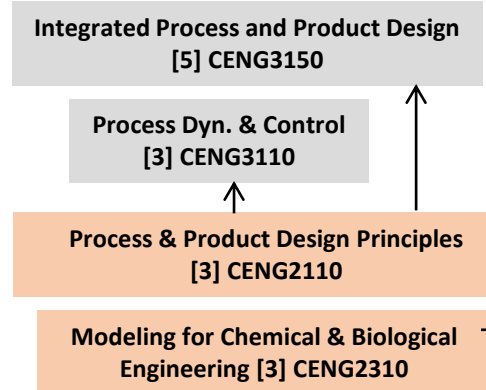
Co-requisite - - - - - →

Fall Offering	Year Long
Spring Offering	
Offering in both semester	

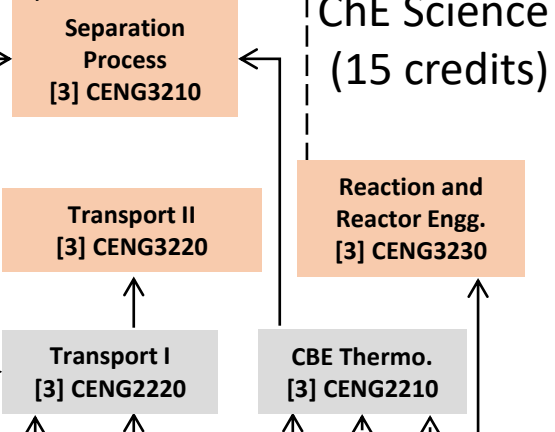
Introduction (6 credits)



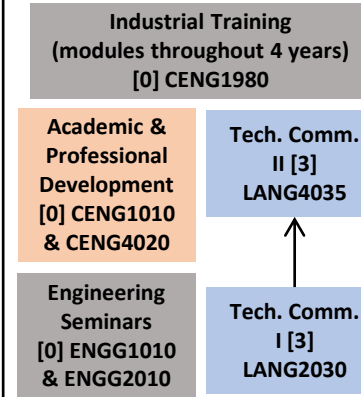
ChE Design (14 credits)



ChE Science (15 credits)



Others (6 credits)



Math. & Science (24-28 credits)

