

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)

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 →

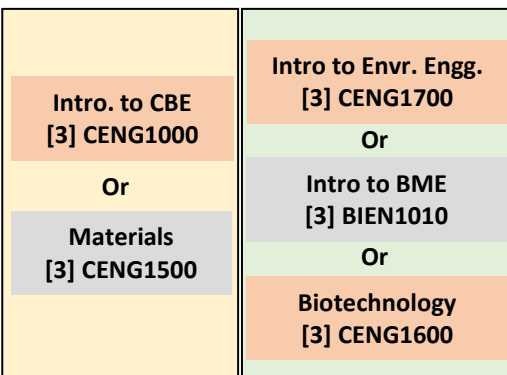
Co-requisite - - - - - →

Fall Offering	Year Long
Spring Offering	
Offering in both semester	

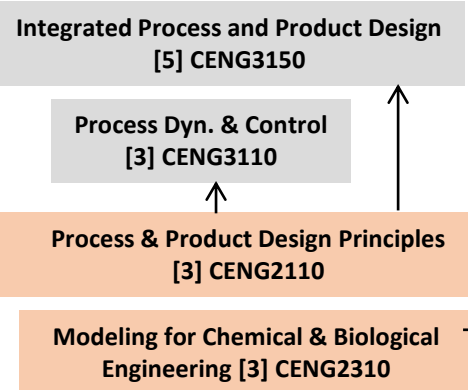
Lab (4 credits)

Chemical & Environmental
 Engg Lab
 [4] CENG3950

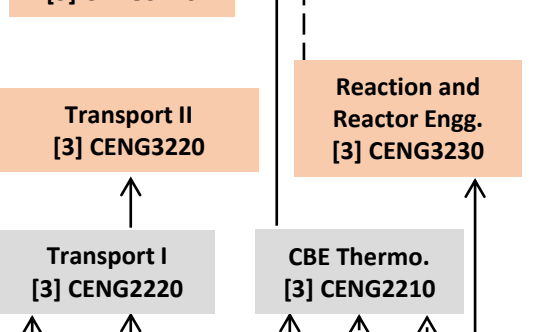
Introduction (6 credits)



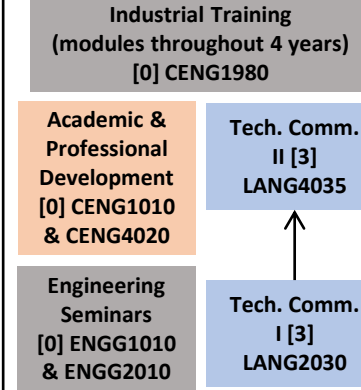
ChE Design (14 credits)



ChE Science (15 credits)



Others (6 credits)



Math. & Science (24-28 credits)

