

CBME

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

CBME Depth&Electives (9 credits)

CBME Electives x 1 [3] chosen from:
 CENG 4150 Product and Process Design in CBE
 CENG 4630 Food Processing Technology
 CENG 4660 Introduction to Biomicrosystem
 CENG 4670 Pharmaceutical Engineering
 LIFS 3010 Molecular and Cellular Biology I
 LIFS 3040 Animal Physiology
 LIFS 3060 Microbiology
 LIFS 3140 General Genetics
 LIFS 3150 Biostatistics

Bioproducts and Processing [3]
CENG4620

Biomolecular Engineering [3]
CENG4640

Final Year Project (6 credits)

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

Lab (4 credits)

Bioengineering Lab [4]
BIEN3910

Research Option (6 credits)

[6] CENG4980 x 2

Credit Requirement

CEEV Major: 88-92
(9 credits of double-counting allowed)
Common Core: 36

Pre-requisite →

Co-requisite - - - - - →

CBME-only requirement

Fall Offering	Year Long
Spring Offering	
Offering in both semester	

Introduction (6 credits)

Biotechnology and its Business Opportunities [3]
CENG1600

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

Engineering Seminars [0]
ENGG1010 & ENGG2010

Tech. Comm. II [3]
LANG4035

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

Multivariable Calculus [3]
MATH2011

General Phys. I [3]
PHYS1112

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

Calculus II [3]
MATH1014/1024

Or **Acc. Calculus [4]**
MATH1020

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

Organic Chem. [3]
CHEM2111

Analytical Chem. [3]
CHEM2311

Chem. Lab. [1]
CHEM2155/2355

Updated on: 17-Jul-2019