CBME

Cohorts admitted in 2016

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 (Captsone)
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)

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

Reaction and Reactor Engg. [3] CENG3230

Fluid Mech. [3] CENG2220

CBE Thermo. [3] CENG2210

Others (6 credits)

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

Academic & Professional Development [0] CENG1010

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

Linear Algebra & ODE [3] MATH2350

Multivariable Calculus [3] MATH2011

General Phys. I [3] PHYS1112

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

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