Pre-Bioengineering

Updated 9/26/2016

FIRST YEAR

Fall

CBEE 101 or ENGR 111
F (3)

HS Chem or Equiv.
CH 231/261
Chemistry
F,W (5)

MTH 112
MTH 251
Differential Calculus
F,W,S (4)

Lifetime Fitness
e.g. HHS 231 + Lab.
F,W,S (3 Cr)

Winter

MTH 251
CBEE 102 or ENGR 112
F,W,S (3)

CH 232/262
Chemistry
W,S (5)

MTH 252
Integral Calculus
F,W,S (4)

WR 121
English Composition
F,W,S (3)

Perspective
Social Processes & Institutions
F,W,S (3)

Spring

COMM 111/114
Speech
F,W,S (3)

CH 233/263
Chemistry
S (5)

MTH 254
Vector Calculus
F,W,S (4)

MTH 251 MTH 252 Co-Req
PH 211
Physics w/ Calculus
F, S (4)

SECOND YEAR

Fall

MTH 252 Co-Req
General Chemistry
CBEE 211
Material Balances and Stoichiometry
F (3)

CH 331
Organic Chemistry
F (4)

BI 231 &BI 241(F)
or MB 230 (FWS)
Intro. to Human Anatomy & Physiology
F (3)

MTH 252 MTH 254 Co-Req
PH 212
Physics w/ Calculus
F, W (4)

Winter

CBEE 212
Energy Balances
W(3)

CH 332
Organic Chemistry
W (4)

MTH 254
MTH 256
Differential Equations
F,W,S (4)

MTH 254
PH 213
General Physics
W, S (4)

Spring

CBEE 213
Process Data Analysis
S(3)

Soph. Stdg. MTH 252
ENGR 201
Electrical Fundamentals
F, W, S (3)

Soph.Stdg. MTH 254 Co-Req
ENGR 211
Statics
F,W,S (3)

MTH 252
MTH 306
Matrix & Power Series Methods
F,W,S (4)

Shaded courses are required by the college prior to admission to the Professional Engineering Program

Shaded courses are additional prerequisites for third-year courses.

( ) The number within the parenthesis represent the credits of the course.

F, W,S: Represents the term the course is offered (**F**all, **W**inter and **S**pring term respectively)

Rev. 9/2016

Pre-BIOENGINEERING

Additional courses not requiring admission to the Professional Engineering Program

WR 121

WR 327
Technical Report Writing
F,W,S (3)

BI 231
Human Anatomy + Physiology
F (3)

BI 233
Human Anatomy + Physiology
S (3)

BI 241or243
Anatomy& Physiol. Lab(2)
or
MB 230
F, W,S (4)

Perspectives
Western Culture
F,W,S (3)

Perspectives
Cultural Diversity
F,W,S (3)

Perspectives
Literature & Arts
F,W,S (3)

Perspectives
Social Processes & Institutions
F,W,S (3)

Difference, Power & Discrimination
F,W,S (3)

Synthesis
Contemporary Global Issues
F,W,S (3)

Synthesis
Science, Technology, & Society
F,W,S (3)

CH 332

BB 450/493
General Biochemistry
F,W (3-4)

→ **BB 451/494**
General Biochemistry
W,S (3)

NOTES:

1. MTH 306 – Matrix and Power Series Methods (4), includes content covered in MTH 253 – Infinite Series (4) and MTH 341 – Linear Algebra (3) or equivalent.
2. Credits to graduate = 192.
3. CBEE 280 (6) is an 11-week, on-line course offered in the summer to fulfill the CBEE 211 & 212 requirement. Register with departmental approval only.