**PRE-CHEMICAL ENGINEERING**

**FIRST YEAR**

**Fall**
- CBEE 101 or ENGR 111 (F, 3)
- CH 231/261 Chemistry (F, W, S, 5)
- MTH 251 Differential Calculus (F, W, S, 4)
- WR 121 English Composition (F, W, S, 3)
- HHS 231+ LAB
  - Lifetime Fitness (F, W, S, 3)

**Winter**
- CBEE 102 or ENGR 112 (F, W, S, 3)
- CH 232/262 Chemistry (W, S, 5)
- MTH 252 Integral Calculus (F, W, S, 4)
- COMM 111/114 Speech (F, W, S, 3)

**Spring**
- CBEE 102 or ENGR 112 (F, W, S, 3)
- CH 233/263 Chemistry (S, 5)
- MTH 254 Vector Calculus (F, W, S, 4)

**SECOND YEAR**

**Fall**
- CBEE 211 Material Balances and Stoichiometry (F, 3)
- MTH 252 Co-Req
- BioScience Elective (F, W, S, 4)
- CH 331 Organic Chemistry (F, 4)

**Winter**
- CBEE 211 Material Balances and Stoichiometry (F, 3)
- MTH 252 Co-Req
- CBEE 212 Energy Balances (W, 3)
- CH 332 Organic Chemistry (W, 4)

**Spring**
- CBEE 213 Process Data Analysis (S, 3)
- ENGR 201 Electrical Fundamentals (F, W, S, 3)
- ENGR 211 Statics (F, W, S, 3)
- WR 327 Technical Report Writing (F, W, S, 3)

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 (Fall, Winter and Spring term respectively).

**Updated 8/2/2017**
CHEMICAL ENGINEERING

Additional courses not requiring admission to the Professional Engineering Program

CH 441
Physical Chemistry
W (3)

CH 442
Physical Chemistry
S (3)

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)

Electives
(7)

NOTES:

1. MECOP admission – all shaded courses plus CH 222, CH 223, CH 331 and CH 332

2. MTH 306 – Matrix and Power Series Methods (4), includes content from MTH 253 – Infinite Series (4) and MTH 341 – Linear Algebra (3) or equivalent.

3. Credits to graduate = 192.

4. 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.