Chemical Engineering Suggested 4 Year Curriculum University of Notre Dame entering FA19

**Year 1**
- **Fall 19**
  - Intro to Chem
    - CHEM 10171 (3)
  - Chem Lab
    - CHEM 11171 (1)
  - Intro. Eng.
    - EG 10111 (3)
- **Spring 20**
  - Calculus I
    - MATH 10550 (4)
  - Physics 1
    - PHYS 10310 (4)

**Year 2**
- **Fall 20**
  - Gen Chem
    - CHEM 10122 (3)
  - Calculus II
    - MATH 10560 (4)
  - Calculus III
    - MATH 20550 (3.5)
  - Int. to ChE
    - CBE 20255 (3)
- **Spring 21**
  - O Chem 1
    - CHEM 10172 (3)
  - Physics 2
    - PHYS 10320 (4)
  - Linear ODE
    - MATH 20580 (3.5)
  - Transport I*
    - CBE 30356 (3)

**Year 3**
- **Fall 21**
  - O Chem 2
    - CHEM 20273 (3)
  - Diff Eq
    - MATH 30650 (3)
  - Materials
    - CBE 30361 (3)
  - Thermo I
    - CBE 20260 (3)
- **Spring 22**
  - A Chem
    - CHEM 30333 (3)
  - Controls
    - CBE 30338 (3)
  - Transport II
    - CBE 30356 (3)
  - Thermo II
    - CBE 30367 (3)

**Year 4**
- **Fall 22**
  - P Chem
    - CHEM 30324 (3)
  - ChE Lab I
    - CBE 31358 (3) JR class
  - Reactor Eng
    - CBE 40445 (3)
  - Separations
    - CBE 40443 (3)
- **Spring 23**
  - ChE Lab II**
    - CBE 31359 - OR -
    - Biolab**
      - CBE 41910 (3) SR class
  - Design
    - CBE 40448 (3)
  - Technical Elective
    - (3)

**COE Requirements**
- Calculus I
  - MATH 10550 (4)
- Calculus II
  - MATH 10560 (4)
- Intro. Eng.
  - EG 10112 (3)
- Intro to Chem
  - CHEM 10171 (3)
- Chem Lab
  - CHEM 11171 (1)
- Gen Chem
  - CHEM 10122 (3)
- O Chem 1
  - CHEM 10172 (3)
- O Chem Lab
  - CHEM 11172 (1)
- O Chem 2
  - CHEM 20273 (3)
- A Chem
  - CHEM 30333 (3)
- A Chem Lab
  - CHEM 31333 (1)
- P Chem
  - CHEM 30324 (3)

**Intro to ChE**
- CBE 20255 (3)

**University Core Curriculum**
- UCore 1 (3)
- UCore 2 (3)
- UCore 3 (3)
- UCore 4 (3)
- UCore 5 (3)
- UCore 6 (3)
- UCore 7 (3)

**Moreau 1st year**
- (1)

**LA 4: art/lit/lang/culture**
- Philosophy 1: intro
- Philosophy 2: philo/CAD
- Writing 2

**LA 5: hist/soc/sci**
- Writing 1: university seminar (satisfy with one of above)

**LA 6: int/WoK**
- Theology 1: found
- Theology 2: develop

**Writing 1**
- (1)

**Writing 2**
- (3)

**Satisfy with other UCore**
- (3)

**UCore 1**
- (3)

**UCore 2**
- (3)

**UCore 3**
- (3)

**UCore 4**
- (3)

**UCore 5**
- (3)

**UCore 6**
- (3)

**UCore 7**
- (3)

**Theology 1: found**
- (1)

**Theology 2: develop**
- (1)

**Philosophy 1: intro**
- (1)

**Philosophy 2: philo/CAD**
- (1)

**Course Description**
- DEPT Course# (Credits)

- = course only offered in semester shown
- = course offered both spring and fall semesters
The Notre Dame Core Curriculum: starting fall 2018

Six Courses in the General Liberal Arts

- Liberal Arts 1: quantitative reasoning
- Liberal Arts 2: science & technology
- Liberal Arts 3: quantitative reasoning or science & technology
- Liberal Arts 4: art & literature, or advanced language & culture
- Liberal Arts 5: history or social science
- Liberal Arts 6: Integration or way of knowing not yet chosen from 4 or 5

Four Courses Exploring Explicitly Catholic Dimensions of the Liberal Arts

- Theology 1: foundational
- Theology 2: developmental
- Philosophy 1: introductory
- Philosophy 2 or CAD: philosophy or Catholicism and the Disciplines

Two Courses in Writing

- Writing 1: University Seminar
- Writing 2: Writing & Rhetoric or other writing-intensive course

Moreau 1st Year Experience

- Moreau: one two-semester course