# CHEMICAL ENGINEERING 2015-2016 Catalog

**CODE: 4170 (140701-01)** **Bachelor of Science In Chemical Engineering**

Students with Math ACT sub-score of 28 or above, and with at least 8 weeks of trigonometry in high school may register for Mathematics 270, Calculus I, upon entry. Students with ACT sub-scores of 26-27 may take the advanced placement test given by the Math Department or Math 143, Precalculus Algebra and Trigonometry. Those who do not meet these qualifications and have an ACT sub-score in Math of at least 23 must take Math 109, Precalculus Algebra, and those with 24-25 may take Math 109 and Math110, Trigonometry: Fundamentals, simultaneously. Students requiring precalculus courses are advised to complete these courses in the summer semester prior to the freshman year.

| First Semester | | | Credit | Second Semester | | | Credit |
|---|---|---|---|---|---|---|---|
| | | | Freshman Year | | | | |
| UNIV | 100 | First Yr Seminar: Cajun Connection | 3 | CHEE | 101 | Intro to Chemical Engr | 1 |
| CHEM | 107 | General Chemistry I | 3 | CHEM | 108 | General Chemistry II | 3 |
| ENGL | 101 | Intro to Academic Writing | 3 | CHEM | 115 | Gen Chemistry Lab | 2 |
| MATH | 270 | Calculus I | 4 | ENGL | 102 | Writing & Research About Culture | 3 |
| BIOL | 110 | Fundamentals of Biology I | 3 | MATH | 301 | Calculus II | 4 |
| | | | | PHYS | 201 | General Physics I | 4 |
| | | | 16 | | | | 17 |
| | | | Sophomore Year | | | | |
| CHEE | 201 | Chem Engr Calc | 4 | CHEM | 232 | Organic Chemistry II | 3 |
| CHEM | 231 | Organic Chemistry I | 3 | CHEE | 210 | Engr Analysis | 2 |
| ENGR | 218 | Statics & Strength of Materials | 3 | ENGR | 301 | Thermodynamics | 3 |
| MATH | 302 | Calculus III | 4 | ENGR | 305 | Transport Phenomena | 3 |
| Elective | | (LIT)[1] | 3 | MATH | 350 | Diff Equations | 3 |
| | | | | Elective | | (HIST)[1] | 3 |
| | | | 17 | | | | 17 |
| | | | Junior Year | | | | |
| CHEE | 317 | Materials of Engr | 3 | CHEE | 302 | Transfer Operations | 3 |
| CHEM | 233 | Organic Chem Lab | 1 | CHEE | 310 | Chem Engr Thermo | 3 |
| CMCN | 310 | Public Speaking | 3 | CHEM | 302 | Physical Chemistry II | 3 |
| ECON | 430 | Ind Economics & Finance | 3 | CHEE | 405 | Process Heat Transfer | 3 |
| ENGR | 201 | Electrical Circuits | 3 | CHEE | 307 | Safety, Ethics, & Environmental Policy | 2 |
| Elective | | (BHSC)[1] | 3 | Elective | | (CHEE)[3] | 3 |
| | | | 16 | | | | 17 |
| | | | Senior Year | | | | |
| CHEE | 400 | Process Simulation | 3 | CHEE | 404 | Chem Engr Lab II | 2 |
| CHEE | 401 | Stage Operations Design | 3 | CHEE | 408 | Comp-Aided Proc Design | 3 |
| CHEE | 403 | Chem Engr Lab I | 2 | CHEE | 413 | Proc Control in CHEE | 3 |
| CHEE | 407 | Chem Engr Plant Design | 3 | Elective | | (SCI)[2] | 3 |
| CHEE | 420 | Chem Reaction Engr | 3 | Elective | | (CHEE)[3] | 3 |
| Elective | | (ARTS)[1] | 3 | | | | |
| | | | 17 | | | | 14 |

All courses require grade of C or better.

[1] Must be chosen from the College of Engineering approved list.

[2] To be chosen from CHEM 221, 301, 317, 402, or BIOL 111

[3] Requires permission of Department