# 2017-2018 BSCHE Chemical Engineering Curriculum (chme.nmsu.edu)

| | | | | | | | | | | | | | total cr hrs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| freshman | **CHEM 115★** Inorganic Chem I | 4 | | | **ENGR 100** Intro to Engr | 3 | **CHME 101** Intro CHME calcs | 2 | **ENGL 111G ❖** Rhetoric/Composition | 4 | **MATH 191 ✣** Calculus I | 4 | 17 |
| | **CHEM 116★** Inorganic Chem II | 4 | **PHYS 215** Engr Physics I | 3 | **PHYS 215L** Engr Physics Lab I | 1 | **CHME 102** Material Balances | 2 | **ENGL 218G ❖** Technical Writing | 3 | **MATH 192** Calculus II | 4 | 17 |
| sophomore | **CHEM 313** Organic Chem I | 3 | **PHYS 216** Engr Physics II | 3 | **PHYS 216L** Engr Physics Lab II | 1 | **CHME 201** Energy Balances | 3 | **COMM 265G ❖** Oral Communication | 3 | **MATH 291** Calculus III | 3 | 16 |
| | **CHEM 314** Organic Chem II | 3 | **CHEM 315** Organic Chem Lab | 2 | **CHME 303** Thermodynamics | 4 | **CHME 305** Fluid Flow | 3 | **I E 311** Engr Data Analysis | 3 | **MATH 392** Differential Eqns | 3 | 18 |
| junior | **Area IV or V** | 3 | **CHEM 433** Physical Chem | 3 | **CHME 361** Engr Materials | 3 | **CHME 306** Heat/Mass Transfer | 4 | **CHME 323L** Transport/Instrument Lab | 1 | **CHME 392** Numerical Methods | 3 | 17 |
| | **Area IV** Social/Behavioral | 6 | **BIOL 211G** Cell/Organism Bio | 3 | **CHME 352L** Unit Ops Simulation | 1 | **CHME 307** Staged Operations | 3 | **CHME 324L** Unit Ops Lab I | 1 | **CHME 441** Chem Reaction Engr | 3 | 17 |
| senior | **Area V** Humanities/Arts | 6 | **CHME 448** Industrial Safety | 3 | **CHME 452L** Process Simulation | 1 | **CHME 412** Dynamics/Control | 3 | **CHME 423L** Unit Ops Lab II | 1 | **CHME 452** Engr Economics | 3 | 17 |
| | **VWW** View a Wider World | 3 | **CHME Elective** Approved Elective | 6 | **CHME 455L** Plant Simulation | 1 | **I E 365** Quality Control | 3 | **CHME 424L** Dynamics/Control Lab | 1 | **CHME 455** Chem Plant Design | 3 | 17 |

*Courses in this template are ordered to assure prerequisite and corequisite courses are satisfied. Students who take courses in an order that differs from this template are responsible to consult an advisor about the consequences of failing to complete some courses in the timeframe shown, particularly those courses in the core CHME curriculum and the associated science fundamentals. Detailed prerequisite requirements for all courses can be found in the NMSU Undergraduate Catalog in the Course Descriptions section. A CHME prerequisite map is found on chme.nmsu.edu at /Academics/Undergraduate/.*

*3 credits of the VWW institutional requirement are satisfied by 9-credit hour rule (CHEM 313, 314, and 433 found in the "required courses" section of the undergraduate catalog.*

Chemical Engr | Fundamental Sci | Mathematics | Engineering | Communication | Gen Ed + VWW

★ satisfies Area III

✣ satisfies Area II

❖ satisfies Area I