CHEMICAL ENGINEERING

2025-2026

College of Engineering, Architecture, and Technology

Oklahoma State University

Name: _____

123 Semester Hours

Year 1 Year 2 1. If a grade of "C" is earned in ENGL 1113. then ENGL 1213 17 hours 18 hours 16 hours 15 hours is also required before year 3 in the program. ENGL 3323 may be substituted for ENGL 1213 if CHEM 1314 CHEM 1515 CHEM 3053 CHEM 3153 AP Exam credit or a grade of 'A' or 'B' is earned in Chemistry II Chemistry I Organic Organic ENGL1113. Chemistry I Chemistry II 2. 6 hours designated (H) and 3 hours designated (S). One **Required Prerequisites UNIV 1111** POLS 1113 CHE 2581 CHEM 3112 course designated (D) and one course designated (G). CHE Sophomore (May be satisfied by course First Year American Organic Seminar Chemistry Lab Government Seminar credit or placement exam) 3. FALL ONLY COURSE MATH 1513 MATH 1813 MATH 2144 MATH 2153 MATH 2163 MATH 2233 4. MATH 2233 or 3263 (may be taken concurrently with CHE College Algebra Preparation for Calculus I Calculus II Calculus III Differential 2033). Calculus Equations 5. The combination of BIOC 3653 and 3723 may be substituted ENGR 1412 for the combination of CHEM PHYS 2014 CHE 2023 CHE 2033 3153 and 3112. Intro to CHEN Engr Computer Univ. Physics I Intro to Che **Thermodynamics** 6. SPRING ONLY COURSE. Programming Process Eng ENGL 1113 ENGL 1213 ENSC 2113 **ENSC 3233** Composition I Composition II Statics Fluid Mechanics HIST 1103, 1483 **ENSC 2613** ENGR 2421 or 1493 ntro to Electrical Eng Data Acg Controls Lab American History Science NOTE: This flow chart is for planning purposes only. Official degree requirements can be found in the Completion with a grade of "C" or General Education Courses Degree Requirements Upper Level CHE Courses Academic Catalog 2025-2026. (catalog.okstate.edu) better.

Requirements for (CHEN) Chemical Engineering

Students must meet the following requirements to take 3000 level CHE courses:

Complete at least 60 college level semester credit hours (SCH).

12 SCH must be from OSU, 9 of which must be STEM courses (UNIV1111 is not considered STEM).

Completion with a "C" or better in all green courses: MATH 2144, 2153, 2163, 2233; PHYS 2014; CHEM 1314, 1515, 3053, and (3153 & 3112) or (BIOC 3653 & 3723); ENSC 3233; CHE 2023, 2033, 2581; ENGR 1412; and ENGL 1113 (if a "C" is earned in ENGL 1113, then a 'C' in ENGL 1213 is also required). All courses listed must be completed PRIOR to beginning Year 3 courses.

Students must meet the following requirements to advance to subsequent courses:

A "C" or better in CHE 3013, 3113, 3123, 3333, 3473, 3543, 4002; ENSC 2613, 3231; ENGR 2421.

Students must meet the following requirements for graduation:

A 2.0 GPA average in all CHE, CHEM, ENGR, and ENSC courses.

- 7. 3000 level or higher. Must meet requirements for professional development, technical knowledge, or life balance. May be fulfilled by upper division coursework as part of the pursuit of a minor at OSU. Cannot use both ANSI 3423 & BIOL 3023 or BIOC 3653 & BIOC 3713.
- 8. Students may choose from the following electives: CHE 3202 + 3211, 4073, 4133, 4283, 4293, 4343, 4323, 4493, 4523, 4533, 4543, 4603, 4753, 4773.

Completion with a grade of "C" or

better.

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Upper Level CHE Courses

Year 4 Year 3 16 hours 14 hours 14 hours 13 hours **Prerequisites** CHE 3013 CHE 4002 CHE 4112 CHE 4843 Rate Operations Chemical Eng Chemical Eng Chem Process ab II Instr/Control Completion of all green courses with a "C" or better. CHE 3473 CHE 3113 CHE 4124 CHE 4224 Chemical Eng Chemical Eng Chemical Eng Rate Operations II **Thermodynamics** Design I Design II CHE 3333 CHE 3123 CHE 4581 Advanced CHE Elective ntro to Transport Chemical CHE Senior 8 Phenomena Reaction Eng 3-hours Seminar CHE 3581 Jpper Division Upper Division Gen Ed Course Elective (3000+) Elective (3000+) CHE Junior 3-hours (H) 3-hours Seminar 3-hours Gen Ed Course CHE 3543 ENSC 3313 Gen Ed Course Materials Science 3-hours 3-hours (DH) Intro To Chem See Course Catalog (SG) Process Analytics for specific course prerequisites **ENSC 3231** Fluids & Hvdraulics Lab

General Education Courses

Degree Requirements