Academic Catalog 2025-2026. (catalog.okstate.edu)

## CHEMICAL ENGINEERING-PMED

128 Semester Hours

## 2025-2026 Pre-Medical Option

College of Engineering, Architecture, and Technology

Oklahoma State University

Name: \_\_\_\_\_

Advisor:

better.

1. If a grade of "C" is earned in Year 1 Year 2 ENGL 1113, then ENGL 1213 is also required before year 3 in 14 hours 19 hours 16 hours 16 hours the program. ENGL 3323 may be substituted for ENGL 1213 if AP Exam credit or a grade of CHEM 3153 CHEM 1314 CHEM 1515 **CHEM 3053** 'A' or 'B' is earned in ENGL1113. Chemistry II Chemistry I Organic Organic Chemistry I Chemistry II 2. 6 hours designated (H) and 3 hours designated (S). One course designated (D) and one BIOL 1111 & 1113 **UNIV 1111** MATH 2233 CHEM 3112 course designated (G). PSYC **Required Prerequisites** 1113 (S) and SOC 1113 (S) are Introductory Bio First Year Differential Organic recommended for MCAT prep. (May be satisfied by course and Lab Equations Chemistry Lab Seminar Student is encouraged to credit or placement exam) choose courses to meet medical school requirements **BIOL 1604** MATH 1513 MATH 2144 MATH 2153 MATH 2163 MATH 1813 under consultation with degree advisor and Pre-Health advisor. **Animal Biology** College Algebra Calculus I Calculus II Calculus III Preparation for Optional: UNIV 2511 -Intro to Calculus Health Care Course. (G): \_\_\_\_\_ PHYS 2014 **ENGR 1412** CHE 2023 CHE 2033 3. FALL ONLY COURSE. Intro to CHEN Engr Computer Univ. Physics I Intro to Che **Thermodynamics** 4. MATH 2233 or 3263 (may be Programming Process Ena taken concurrently with CHE 2033). ENGL 1213 ENGL 1113 5. The combination of BIOC 3653 **ENSC 2113 ENSC 3233** and 3723 may be substituted Composition I Composition II for the combination of CHEM Statics Fluid Mechanics -All pre-med students are HIGHLY 3153 and 3112. encouraged to use pre-health 6. SPRING ONLY COURSE. advising to ensure MCAT and professional program readiness. **ENGR 2421** CHE Sophomore Eng Data Acq -UNIV 2511: Intro to Health Careers Seminar Controls Lab -preprofessional.okstate.edu 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

## 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 (UNIV111 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 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 the next level of 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.

8.BIOL 3023 or MICR 3033; CHE 3202 + 3211; CHE 4073, 4133, 4183, 4283, 4293, 4323, 4343, 4493, 4523, 4533, 4543, 4603, 4753, 4773.

9. BAE 3113, 4413; BIOC 3223, 3653, 3713, 3723, 4113; BIOL 3023, 3214; CHE 4283, 4293, 5283, 5293.

Completion with a grade of "C" or

better.

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College of Engineering, Architecture, and Technology

Oklahoma State University

Upper Level CHE Courses

Year 3 Year 4 16 hours 17 hours 17 hours 13 hours **Prerequisites** CHE 3013 CHE 4002 CHE 4112 CHE 4843 Rate Operations Chemical Eng Chem Process Chemical Eng ab II Instr/Control Completion of all green courses with CHE 3473 CHE 3113 CHE 4124 CHE 4224 a "C" or better. Chemical Eng Chemical Eng Rate Operations II Chemical Eng Thermodynamics Design I Design II CHE 3333 CHE 3123 CHE 4581 ENSC 3313 Intro to Transport CHE Senior Materials Science Chemical Phenomena Reaction Eng Seminar CHE 3581 Adv Bioscience Bioeng/Bioscience Gen Ed Course Elective Elect. CHE Junior 3-hours (GS) (8) 9 3-hours Seminar 3-hours CHE 3543 HIST 1103, 1483 Gen Ed Course POLS 1113 or 1493 Intro To Chem 3-hours (DH) American Process Analytics American History Government See Course Catalog Gen Ed Course **FNSC 3231** for specific course 3-hours (H) Fluids & prerequisites Hvdraulics Lab **ENSC 2613** Intro to Electrical Science

**General Education Courses** 

Degree Requirements