Name:

## CHEMICAL ENGINEERING-PMED

## College of Engineering, Architecture, and Technology

2023-2024 Pre-Medical Option

128 Semester Hours

Advisor:

Year 1 Year 2 **Required Prerequisites** 17 hours 16 hours 16 hours 18 hours (May be satisfied by course credit or placement exam) CHEM 1515 CHEM 3053 **ENGR 1111 CHEM 3153** ENGL1113. General Introduction to Organic Organic Chemistry II Chemistry I Engineering Chemistry II CHEM 1314 ENGR 1412 MATH 2233 CHEM 3112 BIOL 1604 Differential General Engr Computer Animal Biology Chemistry Lab Chemistry I Programming Equations MATH 1513 MATH 2144 **MATH 2153** MATH 2163 CHE 2033 MATH 1813 Calculus III College Algebra Preparation for Calculus I Calculus II Intro to Che Calculus Process Eng **ENGL** 1113 PHYS 2014 PHYS 2114 CHE 2023 Intro to CHEN Composition I General Physics I General **Thermodynamics** Physics II 2033). HIST 1103 **ENSC 2113 ENSC 3233** American History Statics Fluid Mechanics -All pre-med students are HIGHLY encouraged to use pre-health advising to ensure MCAT and professional program readiness. BIOL 1111 & 1113 CHE 2581 Introductory Bio CHE Sophomore Composition II -UNIV 2511: Intro to Health Careers and Lab Seminar -Preprofessional.okstate.edu NOTE: This flow chart is for planning purposes only.

1. If a grade of "C" is earned in ENGL 1113, then ENGL 1213 is also required before year 3 in the program. ENGL 3323 may be substituted for ENGL 1213 if AP Exam credit or a grade of 'A' or 'B' is earned in

Oklahoma State University

- 2. 6 hours designated (H) and 3 hours designated (S). One course designated (D) and one course designated (I). Students are encouraged to meet the requirement for (D) and (I) in their selection of (H) or (S) courses. PSYC 1113 (S) and SOC 1113 (S) are recommended for MCAT prep. Student is encouraged to choose courses to meet medical school requirements under consultation with degree advisor and Pre-Health advisor. Optional: UNIV 2511 -Intro to Health Care Course.
- 3. FALL ONLY COURSE.
- 4. MATH 2233 or 3263 (may be taken concurrently with CHE
- 5. The combination of BIOC 3653 and 3723 may be substituted for the combination of CHEM 3153 and 3112
- SPRING ONLY COURSE.

Official degree requirements can be found in the Academic Catalog 2023-2024. (catalog.okstate.edu)

Completion with a grade of "C" or bet-

**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 (ENGR1111 is not considered STEM).

Completion with a "C" or better in all green courses: MATH 2144, 2153, 2163, 2233; PHYS 2014, 2114; CHEM 1515, 3053, and (3153 & 3112) or (BIOC 3653 & 3723); ENSC 3233; CHE 2023, 2033, 2581; ENGR 1412; STAT 4033 or 4073; and ENGL 1113 (if a "C" is earned in ENGL 1113, then ENGL 1213 is also required).

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, 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.BAE 3113, 4413; BIOC 3223, 3653, 3713, 4113; BIOL 3023, 3214; CHE 4283, 4293.
- Students may choose from BIOL 3023 or MICR 3033



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CHEMICAL ENGINEERING-PMED 2022-2023 Pre-Medical Option

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Year 4 Year 3 17 hours 13 hours 17 hours 14 hours **Prerequisites** CHE 4843 CHE 3013 CHE 4002 CHE 4112 Rate Operations I Chemical Eng Chemical Eng Chem Process Instr/Control Completion of all green courses with CHE 3473 a "C" or better. CHE 3113 CHE 4124 CHE 4224 Chemical Eng Thermodynamics Rate Operations II Chemical Eng Chemical Eng Design I Design II CHE 3333 CHE 3123 CHE 4581 ENSC 3313 Intro to Transport Phenomena Chemical CHF Senior Materials Science Reaction Eng Seminar CHE 3581 CHE Junior BIO ELECTIVE **ENGR 2421** Gen Ed Elective Seminar Eng Data Acq H/S/I/D Controls Lab CHE 3543 Intro To Chem Process Analytics POLS 1113 ENSC 2613 American Electrical Science See Course Catalog **FNSC 3231** Government for specific course Fluids & prerequisites Hydraulics Lab Gen Ed Elective Gen Ed Elective H/S/I/D H/S/I/D **MICR 3033** 9 Cell/Mol. Biology Completion with a grade of "C" or bet-General Education Courses Degree Requirements Upper Level CHE Courses

Updated 04.13.2023