CHEMICAL ENGINEERING

Name:

CHEMICAL ENGINEERING-BMBC

College of Engineering, Architecture, and Technology

2023-2024 Biomedical/Biochemical Option

127 Semester Hours

Advisor:

Year 1 Year 2 **Required Prerequisites** 17 hours 18 hours 16 hours 16 hours (May be satisfied by course credit or placement exam) CHEM 1515 CHEM 3053 **ENGR 1111 BIOC 3653** General Introduction to Organic Survev of Chemistry II Chemistry I Biochemistry Engineering CHEM 1314 ENGR 1412 Gen Ed Elective MATH 2233 **BIOC 3723** 5 H/S/I/D Differential General Engr Computer Chemistry I **Equations** Biochemistry Lab Programming 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 PHYS 2014 PHYS 2114 **ENGL 1113** CHE 2023 Intro to CHEN Composition I General Physics I General **Thermodynamics** Physics II HIST 1103 ENGL 1213 ENSC 2113 **ENSC 3233** American History Composition II Fluid Mechanics Statics BIOL 1111 & 1113 CHE 2581 Introductory Bio CHE Sophomore and Lab Seminar NOTE: This flow chart is for planning purposes only. Official degree requirements can be found in the

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 ENGL1113.

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- 2. 6 hours designated (H) must include PHIL 3833 (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.
- 3 FALL ONLY COURSE
- 4. MATH 2233 or 3263 (may be taken concurrently with CHE 2033).
- 5. The combination of BIOC 3653 and 3723 may be substituted for the combination of CHEM 3153 and 3112.
- 6. SPRING ONLY COURSE.

Academic Catalog 2022-2023. (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, 3723, 4113, 5824; BIOL 1604, 3023, 3214; CHE 4283, 4293, 5283, 5293; MICR 2123+2132, 3033, 4003. *Cannot use both (ANSI 3423+BIOL 3023) or (BIOC 3653+3713).
- Students may choose from the following electives: CHE 3202 + 3211, 4073, 4133, 4283, 4293, 4343, 4323, 4493, 4523, 4603, 4753, 4773.



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