CHEMICAL ENGINEERING: PRE-MEDICAL, BSCH

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00

Total Hours: 131

or ENGL 1313 Critical Analysis and Writing I Select one of the following: ENGL 1213 Composition II ENGL 1413 Critical Analysis and Writing II ENGL 3323 Technical Writing American History & Government Select one of the following: 3 HIST 1103 Survey of American History HIST 1483 American History to 1865 (H) HIST 1493 American History Since 1865 (DH) POLS 1113 American Government 3 Analytical & Quantitative Thought (A) MATH 2144 Calculus I (A) MATH 2153 Calculus II (A) MATH 2163 Calculus III 3 Any course designated (H) Any course designated (H) Must include one Laboratory Science (L) course CHEM 1314 Chemistry I (LN) CHEM 1515 Chemistry II (LN) Social & Behavioral Sciences (S) Select 3 hours from any course designated (S) Select 3 hours from any course designated (S) 3 Analytical Writing II And Writing II And Introductory Biology (LN) Social & Behavioral Sciences (S) Select 3 hours from any course designated (S) 3 Analytical Writing II Analytical Analysis and Writing II American Analysis and Writing III American Avising III American Analysis and Writing III American Analysis and Writing III American Avising III American Avising III American History Analysis and Writing III American Writing III American Writing American History Analysis and Writing III American History American	Code	Title	Hours
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Basic Science		
PHYS 2014	University Physics I (LN)	4
BIOL 1604	Animal Biology	4
Engineering		
ENGR 1412	Introductory Engineering Computer Programming	2
ENGR 2421	Engineering Data Acquisition Controls Lab	1
Engineering Science		
ENSC 2113	Statics	3
ENSC 2613	Introduction to Electrical Science	3
ENSC 3231	Fluids and Hydraulics Lab	1
ENSC 3233	Fluid Mechanics	3
ENSC 3313	Materials Science	3
Chemistry		
CHEM 3053	Organic Chemistry I	3
CHEM 3112	Organic Chemistry Laboratory	2
CHEM 3153	Organic Chemistry II	3
Hours Subtotal		33
Major Requirements		
Mathematics		
MATH 2233	Differential Equations	3
or MATH 3263	Linear Algebra and Differential Equations	
Select one of the follo	owing:	3
STAT 4033	Engineering Statistics	
STAT 4073	Engineering Statistics with Design of Experiments	
Chemistry		
CHEM 3433	Physical Chemistry I	3
Chemical Engineering		
CHE 2023	Introduction to Chemical Engineering Thermodynamics	3
CHE 2033	Introduction to Chemical Process Engineering	3
CHE 2581	Chemical Engineering Seminar I	1
CHE 3013	Rate Operations I	3
CHE 3113	Rate Operations II	3
CHE 3123	Chemical Reaction Engineering	3
CHE 3333	Introduction to Transport Phenomena	3
CHE 3473	Chemical Engineering Thermodynamics	3
CHE 3581	Chemical Engineering Seminar II	1
CHE 4002	Chemical Engineering Laboratory I	2
CHE 4112	Chemical Engineering Laboratory II	2
CHE 4124	Chemical Engineering Design I	4
CHE 4224	Chemical Engineering Design II	4
CHE 4581	Chemical Engineering Seminar III	1
CHE 4843	Chemical Process Instrumentation and Control	3
Hours Subtotal		48
Controlled Electives		
Advanced Chemical Sc	cience	
Select three hours fro	m the following:	3
BIOL 3023	General Genetics	
or MICR 3033	Cell and Molecular Biology	

Total Hours		131
Hours Subtotal		6
CHE 5293	Advanced Biomedical Engineering	
CHE 5283	Advanced Bioprocess Engineering	
CHE 4293	Biomedical Engineering	
CHE 4283	Bioprocess Engineering	
BIOL 3214	Human Anatomy	
BIOL 3023	General Genetics	
BIOC 4113	Molecular Biology	
BIOC 3723	Biochemistry and Molecular Biology Laboratory	
BIOC 3713	Biochemistry I	
BIOC 3653	Survey of Biochemistry	
BIOC 3223	Physical Chemistry for Biologists	
BAE 4413	Food Engineering	
BAE 3113	Biological Applications in Engineering	
Select 3 hours of th	e following:	3
Bioengineering/Bios	cience Electives	
CHE 4773	Introduction to Computational Fluid- Particle Dynamics	
CHE 4753	Introduction to Applied Numerical Computing for Scientists and Engineers	
CHE 4603	Introduction to Membrane Separations	
CHE 4543	Machine Learning for Chemical Processes	
CHE 4533	Colloidal and Interfacial Phenomena	
CHE 4523	Introduction to Colloid Processing	
CHE 4493	Introduction to Molecular Modeling and Simulation	
CHE 4343	Environmental Engineering	
CHE 4323	Electrochemical Engineering	
CHE 4293	Biomedical Engineering	
CHE 4283	Photocatalysis Bioprocess Engineering	
CHE 4133	Introduction to Catalysis and	
CHE 4073	Introduction to Tissue Engineering	
CHE 3202 & CHE 3211	Interdisciplinary Design and Build for Chemical Systems I and Interdisciplinary Design and Build for Chemical Systems II	
CLIE 2202	Interdisciplinant Design and Duild for	

Humanities courses - should select one from ENGL and one ART, ENGL, FLL, MUSI, PHIL or TH to also meet medical school requirements.

Social & Behavioral Sciences courses – should select from ANTH, PSYC, or SOC to also meet medical school requirements.

Graduation Requirements

- 1. A minimum GPA of 2.00 is required in all CHE coursework.
- Must Receive a "C" or better in the following CHE courses: CHE 2023, CHE 2033, CHE 3013, CHE 3113, CHE 3123, CHE 3333, CHE 3473, and CHE 4002.

3. The major engineering design experience, capstone course, is satisfied by CHE 4124 Chemical Engineering Design I and CHE 4224 Chemical Engineering Design II.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2030.