



# COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY

OKLAHOMA STATE UNIVERSITY

Requirements for Students Matriculating in or before Academic Year 2014-2015

**BACHELOR of SCIENCE in CHEMICAL ENGINEERING**

**MAJOR: Chemical Engineering**

**OPTION: Biomedical/Biochemical**

**Minimum Overall Grade Point Average: 2.00**

**Total Hours: 134**

*(Cumulative Graduation/Retention GPA), other GPA requirements see below.*

<b>GENERAL COURSES: 30 HOURS</b>			<b>MAJOR REQUIREMENTS/PROFESSIONAL SCHOOL</b>		
<i>Underlined courses identify courses that must be completed prior to admission to professional school.</i>			<b>COMMON PROFESSIONAL SCHOOL: 56 HOURS</b>		
Area	Hours	To be selected from:	Area	Hours	To be selected from:
English Composition & Oral Communication	3	<u>ENGL 1113 or 1313</u>	Chemical Engineering	32	CHE 3013, 3113, 3123, 3333, 3473, 3581, 4002, 4112, 4124, 4224, 4581, 4843
American History	3	HIST 1103	Chemistry	3	CHEM 3433
Analytical & Quantitative Thought (A)	13	<u>MATH 2144, 2153, 2163 and (2233 or 3263)</u>			
Social & Behavioral Sciences (S)	3	Any course designated (S). Consult the college & departmental requirements.	Engineering Science	9	ENSC 2143, 2613, 3313
Humanities (H)	3	Any course designated (H). Consult the college & departmental requirements. Must include PHIL 3823 or equivalent with Chemical Advisor approval.	Humanities (H)	3	Any course designated (H). Consult the college & departmental requirements. Must include PHIL 3823 or equivalent with Chemical Advisor approval.
Natural Sciences (N)	5	<u>CHEM 1515</u>	American Government	3	POLS 1113
Diversity (D)	--	Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	Social & Behavioral Sciences (S)	3	Any course designated (S). Consult the college & departmental requirements.
International Dimension (I)	--	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	English Composition & Oral Communication	3	ENGL 1213 or 1413 (3323 may be substituted for 1213, subject to Academic Regulation 3.5)
Scientific Investigation (L)	--	Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements.	<b>CONTROLLED ELECTIVES: 9 HOURS</b>		
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 39 HOURS</b>			Advanced Chemical Science	3	From ANSI 3423, BIOC 3653, 3723, 4113, BIOL 3023, CHEM 3153, 3353, 3553, 4020, FDSC 3373, 4373, GEOL 4403, MICR 3033 or similar advanced chemical transformation of matter courses approved by school advisors. Cannot use ANSI 3423 & BIOL 3023 or BIOC 3653 & 3713.
Mathematics	3	STAT 2013, 2023, 2053, 4013, 4033, 4053, or 4073			
Basic Science	12	<u>PHYS 2014, 2114</u> , BIOL 1114			
Engineering	3	ENGR 1111, <u>1412</u>	Bioengineering/ Bioscience Electives	6	BAE 3113, 3423, 4413 BIOC 3653, 4113, 4224, 5824 BIOL 3023 CHE 4283, 4293, 5283, 5293 MICR 2123 & 2132, 3033 ZOO 1604
Engineering Science	9	ENSC 2113, <u>2213</u> , <u>3233</u>			
Chemical Engineering	4	<u>CHE 2033, 2581</u>			
Chemistry	8	<u>CHEM 3053, 3112, 3153</u> The combination of CHEM 3112 and 3153 may be replaced with the combination of BIOC 3653 and 3723.			

**Admission to Professional School (required):**

Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

**Graduation Requirements:**

1. A minimum GPA of 2.00 is required in all CHE, CHEM, ENGR, and ENSC coursework.
2. The major engineering design experience, capstone course, is satisfied by CHE 4124 and 4224.

**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; one-fourth 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 2020.

**Note:** All General Education coursework requirements are satisfied upon completion of this degree plan.

Signature on file in the Office of the Registrar

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Dean

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Department Head