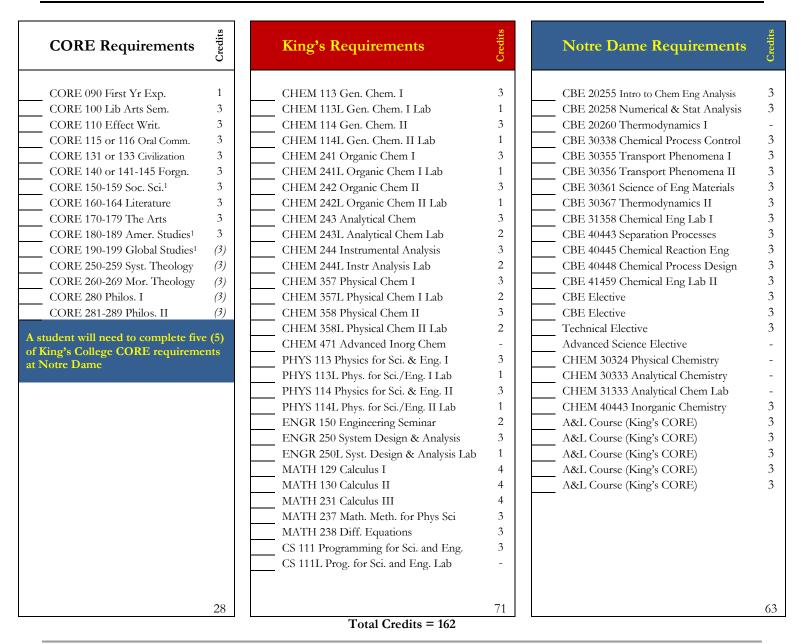
CHEMISTRY – CHEMICAL ENGINEERING TRACK

3+2 Engineering Dual Degree Program with Notre Dame Course Requirements



Note: CHEM 471 required for the King's degree is satisfied by taking CHEM 40443 Inorganic Chemistry at Notre Dame

CHEM 40443 will satisfy Notre Dame's Advanced Science Elective requirement

CHEM 357/L satisfies the Notre Dame requirement for CBE 20260 Thermodynamics

CHEM 243/L satisfies the Notre Dame requirements for CHEM 30333 Analytical Chemistry and CHEM 31333 Analytical Chemistry Lab CHEM 358/L satisfies the Notre Dame requirement for CHEM 30324 Physical Chemistry

¹Students are required to take CORE 150, CORE 180 OR CORE 190 to fulfill the Interdisciplinary CORE requirement.

• If a student takes CORE 150, then he/she should choose from 181 - 188 to fulfill the 18x requirement AND from 191 - 198 to fulfill the 19x requirement.

- If a student takes CORE 180, then he/she should choose from 151 158 to fulfill the 15x requirement AND from 191 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose from 151 158 to fulfill the 15x requirement AND from 181 188 to fulfill the 18x requirement.

General Information:

The 3-2 engineering program is a dual degree program. Students spend 3 years at King's College (King's) taking math, science and CORE courses and then transfer to Notre Dame (ND) for 2 years, focusing on engineering courses in their chosen field. Admission into Notre Dame requires a minimum GPA of 3.30 after 5 semesters of college study. Students must earn at least 60 credits from ND to receive the ND degree. Upon successful completion of the program at Notre Dame, students will receive *both* a B.S. in Chemistry from King's and a B.S. in Chemical Engineering from Notre Dame. (For more information, refer to the college catalog).

CHEMISTRY – CHEMICAL ENGINEERING TRACK

3+2 DUAL DEGREE ENGINEERING PROGRAM WITH NOTRE DAME

SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
 - CORE courses may be taken in any order approved by the academic advisor with the following conditions:
 - CORE 100 and CORE 110 should be taken in the first year.
 - CORE 115 (or 116) should be taken within the first two years.
 - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first available semester at King's.

	King's	College	
1 st Year - Fall	cr.	1st Year - Spring	cr.
CHEM 113 Gen. Chem. I	3	CHEM 114 Gen. Chem. II	3
CHEM 113L Gen. Chem. I Lab	1	CHEM 114L Gen. Chem. II Lab	1
PHYS 113 Physics for Sci. & Eng. I	3	PHYS 114 Physics for Sci. & Eng. II	3
PHYS 113L Phys. for Sci./Eng. I Lab	1	PHYS 114L Phys. for Sci./Eng. II Lab	1
MATH 129 Calculus I	4	ENGR 150 Engineering Seminar	2
CORE	3	MATH 130 Calculus II	4
CORE 090 First Year Exp.	1	CORE	3
	16		17
2 nd Year - Fall		2nd Year – Spring	
CHEM 241 Organic Chemistry I	3	CHEM 242 Organic Chemistry II	3
CHEM 241L Organic Chemistry I Lab	1	CHEM 242L Organic Chemistry II Lab	1
MATH 231 Calculus III	4	MATH 238 Diff. Equations	3
MATH 237 Math. Methods for Physical Sci.	3	ENGR 250 System Design & Analysis	3
CS 111 Programming for Sci. and Eng.	3	ENGR 250L Syst. Design & Analysis Lab	1
CS 111L Prog. for Sci. and Eng. Lab	0	CORE	3
CORE	3	CORE	3
	17		17
3 rd Year – Fall		3 rd Year – Spring	
CHEM 243 Analytical Chemistry	3	CHEM 244 Instrumental Analysis	3
CHEM 243L Analytical Chemistry Lab	2	CHEM 244L Instrumental Analysis Lab	2
CHEM 357 Physical Chemistry I	3	CHEM 358 Physical Chemistry II	3
CHEM 357L Physical Chemistry I Lab	2	CHEM 358L Physical Chemistry II Lab	2
CORE	3	CORE	3
CORE	3	CORE	3
	16		16

Notre Dame				
4 th Year - Fall		4th Year – Spring		
CBE 20255 Intro to Chem Eng Analysis	3	CBE 20258 Numerical & Statistical Analysis	3	
CBE 30355 Transport Phenomena I	3	CBE 30338 Chemical Process Control	3	
CBE 30361 Science of Eng Materials	3	CBE 30356 Transport Phenomena II	3	
CBE 30367 Thermodynamics II	3	CBE 31358 Chemical Engineering Lab I	3	
A&L Course (King's CORE)	3	A&L Course (King's CORE)	3	
	15		15	
5 th Year - Fall		5th Year – Spring		
CBE 40443 Separation Processes	3	CBE 40448 Chemical Process Design	3	
CBE 40445 Chemical Reaction Eng	3	CBE Elective	3	
CBE 41459 Chemical Engineering Lab II	3	Technical Elective	3	
CBE Elective	3	CHEM 40443 Inorganic Chemistry	3	
A&L Course (King's CORE)	3	A&L Course (King's CORE)	3	
A&L Course (King's CORE)	3			
	18*		15	

*Students are encouraged to take summer courses to relieve the course load pressure during this semester.