

Example Dual-Degree Plan:
**Chemistry B.S.— Baker University &
 Chemical Engineering B.S.—University of North Dakota (UND)**

Freshman Fall				
Course #	Course Name	Cr.	Where	Notes
CH137/L	Gen. Chemistry I/Lab	4	BU	
BK101	Baker Experience	1	BU	
BC110	Freshman Seminar I	3	BU	
MA171	Calculus I	4	BU	
LR100	Introduction to Leadership	3	BU	

Sophomore Fall				
Course #	Course Name	Cr.	Where	Notes
CH251/L	Organic Chemistry I/Lab	4	BU	
PC225	General Physics I	4	BU	
MA372	Differential Equations	3	BU	
ENGR206	Fund. of Electrical Engr.	3	UND	

Junior Fall				
Course #	Course Name	Cr.	Taken	Notes
CH361/L	Physical Chemistry I/Lab	4	BU	
CH370	Biochemistry	3	BU	
Core-CA	Core Elective- Creative Arts	3	BU	
PC325	Gen. Physics III	4	BU	See Below*
CH475	Advanced Topics- Mat. Science	3	BU	

Senior Fall				
Course #	Course Name	Cr.	Taken	Notes
Core-WL	World Language	4	BU	
Core-HU	Core Elective- Humanities	3	BU	
CHE301	Intro. to Transport Phenomena	4	UND	
CHE303	Chem. Engr. Thermodynamics	4	UND	

Freshman Spring				
Course #	Course Name	Cr.	Where	Notes
MA172	Calculus II	4	BU	
CH138	Gen. Chemistry II/Lab	4	BU	
BC120	Freshman Seminar II	3	BU	
CHE102	Introduction to Chem. Engr.	2	UND	

Sophomore Spring				
Course #	Course Name	Cr.	Where	Notes
CH252/L	Organic Chemistry II/Lab	4	BU	ACS Elective
PC226	General Physics II	4	BU	See Below*
MA271	Calculus III	4	BU	
CHE201	Chem. Engr. Fundamentals	3	UND	

Junior Spring				
Course #	Course Name	Cr.	Where	Notes
CH340	Analytical Chemical Methods	3	BU	
Core-CA	Core Elective- Creative Arts	3	BU	
CH362/L	Physical Chemistry II/Lab	4	BU	
CHE103	Comp. Tools for Chem. Engr.	3	UND	
CHE206	Unit Operations in Chem. Engr.	3	UND	

Senior Spring				
Course #	Course Name	Cr.	Where	Notes
CH491	Senior Seminar	2	BU	
CH341	Instrumental Analysis	4	BU	
CHE305	Separations	3	UND	
CHE315	Engr. Stats. and Design of Exp.	3	UND	
CHE321	Chem. Engr. Reactor Design	3	UND	

Fifth Year Fall				
Course #	Course Name	Cr.	Taken	Notes
PH120	Core Elective- HU (Ethics)	3	BU	ENGR 340
Core-SS	Core Elective- Social Sciences	3	BU	
CHE408	Process Dynamics and Control	3	UND	
CHE411	Plant Design I: Process Design...	4	UND	

Fifth Year Spring				
Course #	Course Name	Cr.	Where	Notes
Core-Cap	Core Capstone	3	BU	
Core-SS	Core Elective- Social Sciences	3	BU	
CHE413	Plant Design II: Preliminary...	3	UND	
CHE416	Chemical Product Design	3	UND	

Interterm Courses (at Baker)	When to Take	Cr.
First Required Course	After Freshman Fall	1
Second Required Course	Before Senior Spring	1

Summer Labs (at UND Campus)	When to Take	Cr.
CHE235: Chem. Engineering Summer Lab I	After Senior Spring	3
CHE335: Chem. Engineering Summer Lab II	After Senior Spring	3
CHE431: Chem. Engineering Lab IV	After 5 th year Spring	3
SUMMER COURSES (Only Offered Remotely in Summer)		
CHE 414: Plant Design II: Conceptual Process Project Engr	After 5 th year Spring	2

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*PC 226 and PC 325 must both be completed for equivalency to PHYS 252 at UND.

	CHE 235 and 335 cannot be taken in same summer semester per department
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