

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

Freshman Fall

Course #	Course Name	Cr.	Where	Notes
MA171	Calculus I	4	BU	
PC225	Gen. Physics I	4	BU	
CH137/L	Gen. Chemistry I/Lab	4	BU	
BC110	Freshman Seminar I	3	BU	
BK101	Baker Experience	1	BU	

Sophomore Fall

Course #	Course Name	Cr.	Where	Notes
PC325	Gen. Physics III	4	BU	See. Below*
PC361	Thermodynamics	3	BU	
MA372	Differential Equations	3	BU	
PH120	Core-HU (Ethics)	3	BU	
ENGR200	Computer Applications in Engr.	2	UND	
CE101	Introduction to Civil Engr.	1	UND	

Junior Fall

Course #	Course Name	Cr.	Taken	Notes
PC470	Electricity and Magnetism I	3	BU	Tech. Elective
MA281	Linear Algebra	4	BU	
Core-WL	World Language Requirement	4	BU	
Geol	Approved Geology Course	3	UND	
ENGR202	Dynamics	3	UND	

Senior Fall

Course #	Course Name	Cr.	Taken	Notes
PC490	Quantum Mechanics	3	BU	
CE313	General Surveying	3	UND	
CE306	Fluid Mechanics	3	UND	
CE412	Soil Mechanics	3	UND	
CE351	Structural Mechanics	3	UND	
Tech El.	Approved Technical Elective	3	UND	

Freshman Spring

Course #	Course Name	Cr.	Where	Notes
MA172	Calculus II	4	BU	
PC226	Gen. Physics II	4	BU	See Below*
CH138	Gen. Chemistry II/Lab	4	BU	
BC120	Freshman Seminar II	3	BU	

Sophomore Spring

Course #	Course Name	Cr.	Where	Notes
MA271	Calculus III	4	BU	
PC332	Electronics	4	BU	
Core-HU	Core Elective- Humanities	3	BU	
PC381	Statics	3	BU	
CE103	Graphical Communications	3	UND	

Junior Spring

Course #	Course Name	Cr.	Where	Notes
Core-SS	Core Elective- Social Sciences	3	BU	
Core-CA	Core Elective- Creative Arts	3	BU	
BS230	Quant. Analysis for Bus. & Econ I	4	BU	
ENGR460	Engineering Economy	3	UND	
ENGR203	Mechanics of Materials	3	UND	

Senior Spring

Course #	Course Name	Cr.	Where	Notes
PC491	Senior Projects	1	BU	
Core-CA	Core Elective- Creative Arts	3	BU	
CE423	Hydraulic Engineering	3	UND	
CE431	Environmental Engineering I	3	UND	
CE451	Steel Design	3	UND	
Tech El.	Approved Technical Elective	3	UND	

Fifth Year Fall				
Course #	Course Name	Cr.	Taken	Notes
Core-SS	Core Elective- Social Sciences	3	BU	
CE421	Hydrology	3	UND	
CE432	Environmental Engineering II	3	UND	
CE453	Reinforced Concrete	3	UND	
CE482	Civil Engineering Design I	3	UND	

Fifth Year Spring				
Course #	Course Name	Cr.	Where	Notes
Core-Cap	Core- Capstone	3	BU	
CE414	Foundation Engineering	3	UND	
CE416	Transportation Engineering	3	UND	
CE444	Contracts and Specifications	3	UND	
CE483	Civil Engineering Design II	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.
CE313L: General Surveying Lab	After Senior Spring	1
CE411: Civil Engineering Materials Lab	After Senior Spring	1
CE412L: Soil Mechanics Lab	After Senior Spring	1
CE423L: Hydraulic Engineering Lab	After Senior Spring	1
CE431: Environmental Engineering I Lab	After Senior Spring	1

[illegible]

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