

# UND B.S. In Civil Engineering Curriculum Requirements

<b>STUDENT:</b>		<b>STUDENT ID:</b>		PDP <input type="checkbox"/>	Catalog Year: 2011-2013	On-Campus <input type="checkbox"/>
<b>STUDENT EMAIL:</b>		Admit Date:		Grad Date:		DEDP <input type="checkbox"/>
Advisor:		Advisor Email:		Phone #:		
Updated by/on:		Updated by/on:		Updated by/on:		Updated by/on:
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Updated by/on:		Updated by/on:		Updated by/on:		Updated by/on:

**REQUIREMENTS:** 134 credits / 60 cr. in a 4-yr. institution / 36 hrs. of 300 level courses or above / Last 30 cr. hrs. must be at UND / Min. 2.0 GPA

**UND ESSENTIAL STUDIES - Refer to UND Catalog for course listing.**

**I. SPECIAL EMPHASIS (12 credits):**

- A = Advanced Communications (3 cr.) Approved: CIEN 301 & CIEN 302
- Q = Quantitative Reasoning (3 cr.) Approved: CHEM 121/121L
- G = Global Diversity (3 cr.)
- U = United States (3 cr.)

**TRANSFER COURSE EQUIVALENCY**

(List Institution/College Attended):

**II. COMMUNICATION = 9 cr. minimum (ENGL 110; ENGL 120 or 125; & 3 oral) O = Oral Communications (3 cr)**

UND COURSE	UND COURSE TITLE	CR	ES	TERM	GRADE	COURSE	COURSE TITLE	CR	INSTITUTION
ENGL 110	College Composition I	3							
ENGL 125	<a href="#">Technical &amp; Business Writing</a>	3							
or ENGL 120	<a href="#">College Composition II</a>	3							
COMM 110	Fundamentals of Public Speaking	3	O						
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**III. SOCIAL SCIENCE = 9 cr. minimum (Min. of 2 depts.)**

UND COURSE	UND COURSE TITLE	CR	ES	TERM	GRADE	COURSE	COURSE TITLE	CR	INSTITUTION
ENGR 460	Engineering Economy	3							
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**IV. ARTS & HUMANITIES = 9 cr. minimum (3 cr. in Fine Arts & 3 cr. in Humanities)**

UND COURSE	UND COURSE TITLE	CR	ES	TERM	GRADE	COURSE	COURSE TITLE	CR	INSTITUTION
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**V. MATHEMATICS, SCIENCE & TECHNOLOGY = 9 cr. minimum (Min. of 2 depts. & must include a 4 hour science course w/a lab)**

UND COURSE	UND COURSE TITLE	CR	ES	TERM	GRADE	COURSE	COURSE TITLE	CR	INSTITUTION
<b>MATHEMATICS (18 cr.)</b>									
MATH 165	<a href="#">Calculus I</a>	4							
MATH 166	<a href="#">Calculus II</a>	4							
MATH 265	<a href="#">Calculus III</a>	4							
MATH 266	<a href="#">Elem. Differential Equations</a>	3							
ECON 210	<a href="#">Intro to Business &amp; Econ Statistics</a>	3							
Or Math 321	<a href="#">Applied Statistical Methods</a>	3							
Or Psyc 241	<a href="#">Intro to Statistics</a>	3							
<b>CHEMISTRY (8 cr.)</b>									
CHEM 121/121L	<a href="#">General Chemistry I/Lab</a>	3/1	Q						
Chem 122/122L	<a href="#">General Chemistry II/Lab-Spring Only</a>	3/1							
Or Biol 150/150L	<a href="#">General Biology I /Lab (Fall Only)</a>	3/1							
<b>PHYSICS (8 cr.)</b>									
PHYS 251/251L	<a href="#">University Physics I/Lab</a>	4							
PHYS 252/252L	<a href="#">University Physics II/Lab</a>	4							
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**NOTES:**

(!) 3 Credits for SS or A&H may be satisfied by the Ethics course of your choice. Ethics Option: ChE 340, ME 370 or Phil 250. C - Capstone Course  
 (\*) This course will not count towards your degree until successfully petitioned to the appropriate UND Department and the UND Registrar's Office. 9-14-11

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### GENERAL, ENGINEERING SCIENCE & CIVIL ENGINEERING SCIENCE DESIGN REQUIREMENTS

UND COURSE	UND COURSE TITLE	CR	ES	TERM	GRADE	COURSE	COURSE TITLE	CR	INSTITUTION
ENGR 101	Graphical Communications-F,S	3							
CE 101	Intro. to Civil Engineering-S	1							
ENGR 200	<a href="#">Computer Applications in Engr</a> -F,S	2							
CE 313/313L	<a href="#">General Surveying/Lab</a> -F	2/1							
ENGR 201	<a href="#">Statics</a> -F,S	3							
GEOE 203	<a href="#">Geology for Engineers</a> -F	3							
or GEOL 101	Intro. to Geology-F,S,SS	3							
CE 202	<a href="#">Intro to Digital Terrain Modeling</a> -S	1							
ENGR 203	<a href="#">Mechanics of Materials</a> -F,S	3							
CE 301	<a href="#">Civil Engineering Lab 1</a> -F	2	A						
CE 306	<a href="#">Fluid Mechanics</a> -F,S	3							
CE 351	<a href="#">Structural Mechanics</a> -F	4							
CE 412	<a href="#">Soil Mechanics</a> -F	3							
ENGR 202	<a href="#">Dynamics</a> -F,S	3							
CE 302	<a href="#">Civil Engineering Lab II</a> -S	2	A						
CE 423	<a href="#">Hydraulic Engineering</a> -S	3							
CE 431	<a href="#">Environmental Engineering I</a> -S	3							
CE 451	<a href="#">Steel Design</a> -S	3							
CE 421	<a href="#">Hydrology</a> -F	3							
CE 432	<a href="#">Environmental Engineering II</a> -F	3							
CE 453	<a href="#">Reinforced Concrete</a> -F	3							
CE 482	<a href="#">Civil Engineering Design</a> -F	2	C						
‡		3							
CE 414	<a href="#">Foundation Engineering</a> -S	3							
CE 416	<a href="#">Transportation Engineering</a> -S	3							
CE 444	Contracts and Specifications-S	3							
CE 483	<a href="#">Civil Engineering Design II</a> -S	2	C						
‡		3							

<b>NOTES:</b>	(‡) <i>Technical Electives Should be directly applicable in the field of civil engineering practice. Technical Electives should be 300 or 400 or 500 level courses. You and your advisor must agree on the suitability of the courses</i>
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TOTAL CREDITS:		Overall G.P.A.:	
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**I certify that the student named on this contract meets the requirements for a degree of BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE).**

Chair, Civil Engineering	Date	Dean, School of Engineering and Mines	Date
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