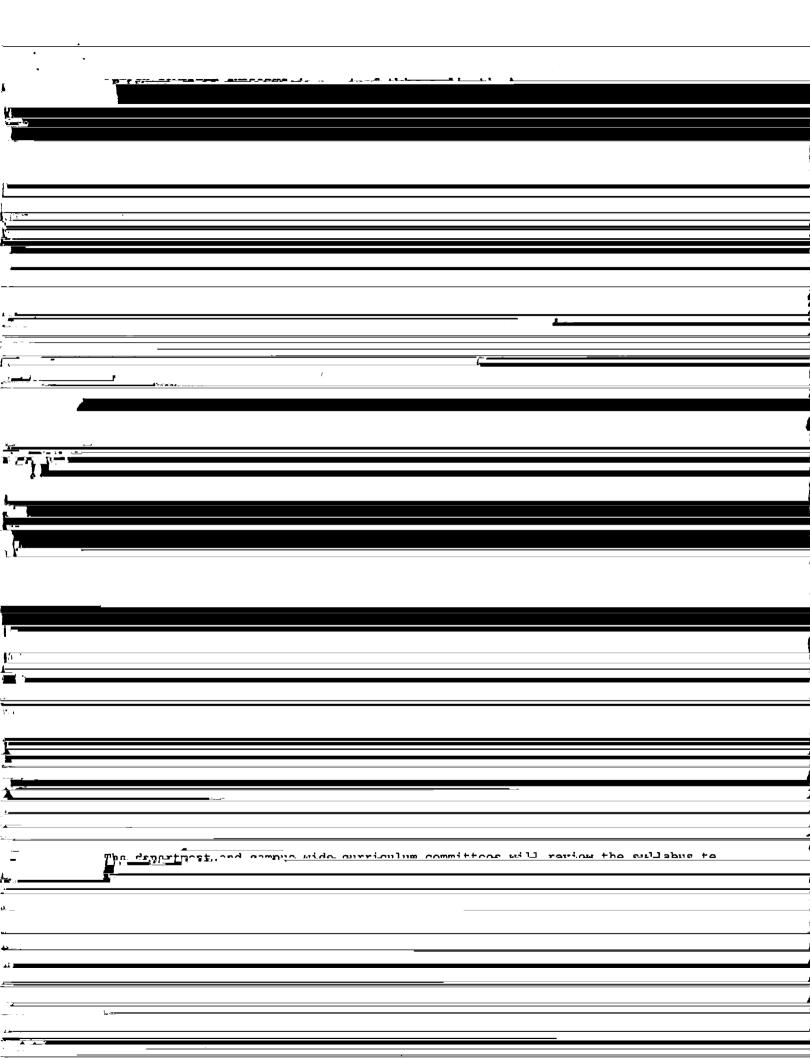
147- UCCh. (ig)

FORMAT 2

	6. CURRENT CATALOG DESCRIPTION AS IT APPEARS IN THE CATALOG: including dept., number, title and credits [CE. 433 Reinforced Concrete Design
) [
· 	-
<u>.</u>	
· · · · · · · · · · · · · · · · · · ·	
1-	
* <u>s.</u>	
·	

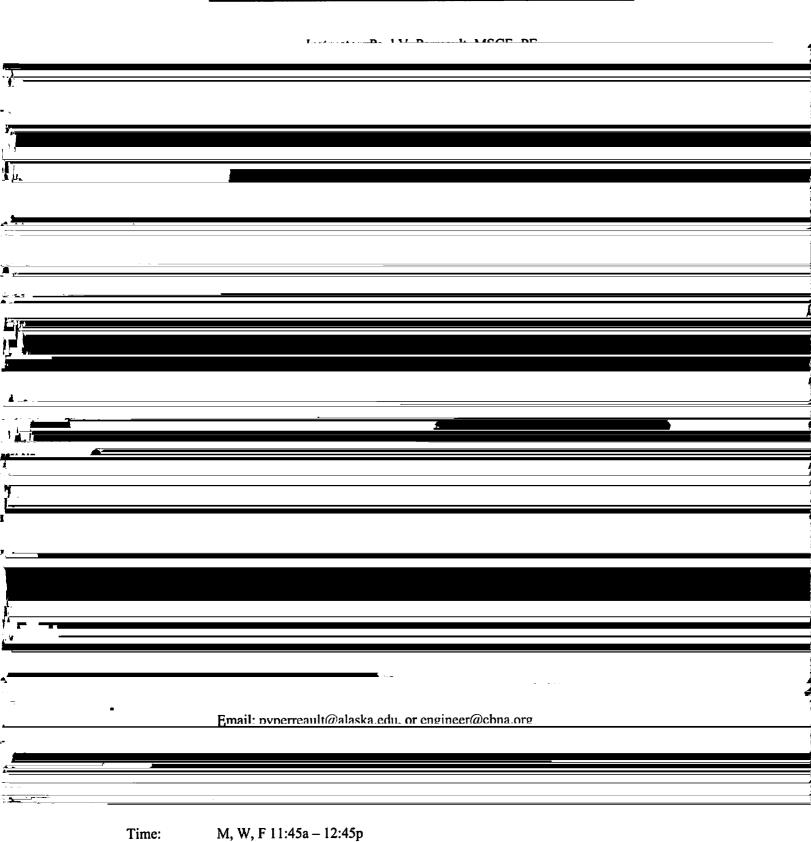
- T-	
<u>F</u>	
1	
7	
1	
-	
7	
}	
1"	
resident	
,	
,	
The state of the s	
<u>-</u>	

	This course has traditionally been listed as a (2+3) course and offered in the fall. Review of the course offerings in the CEE department indicated that CE 433 Reinforced Concrete Design would accommodate	
· .		
ì		
11		
I.y		



UNIVERSITY OF ALASKA FAIRBANKS DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

CE 433 Reinforced Concrete Design Syllabus Spring 2011 - 3 Credits



Course Content, Selected Portions of:

Week 1 Concrete

What is concrete?

Week 2 Concrete constituents

Concrete testing standards

Week 3 Concrete mix design

Week 4 Design Criteria/ Building Codes

Week 5 Loads and Load Combinations

Reinforcing Steel

Week 6 Beam Design – bending

Week 7 Beam Design – shear

Wools 0_____Doom Design tousies

	1	
	_	
-	Week,0	Paam Design _ serviceshility
) r =		
<u>A</u>		
	Week 10	Beam Design – deep beams <u>Compress State Προύση</u>
	T	

Week 12 Designing for Combined Compression and Bending

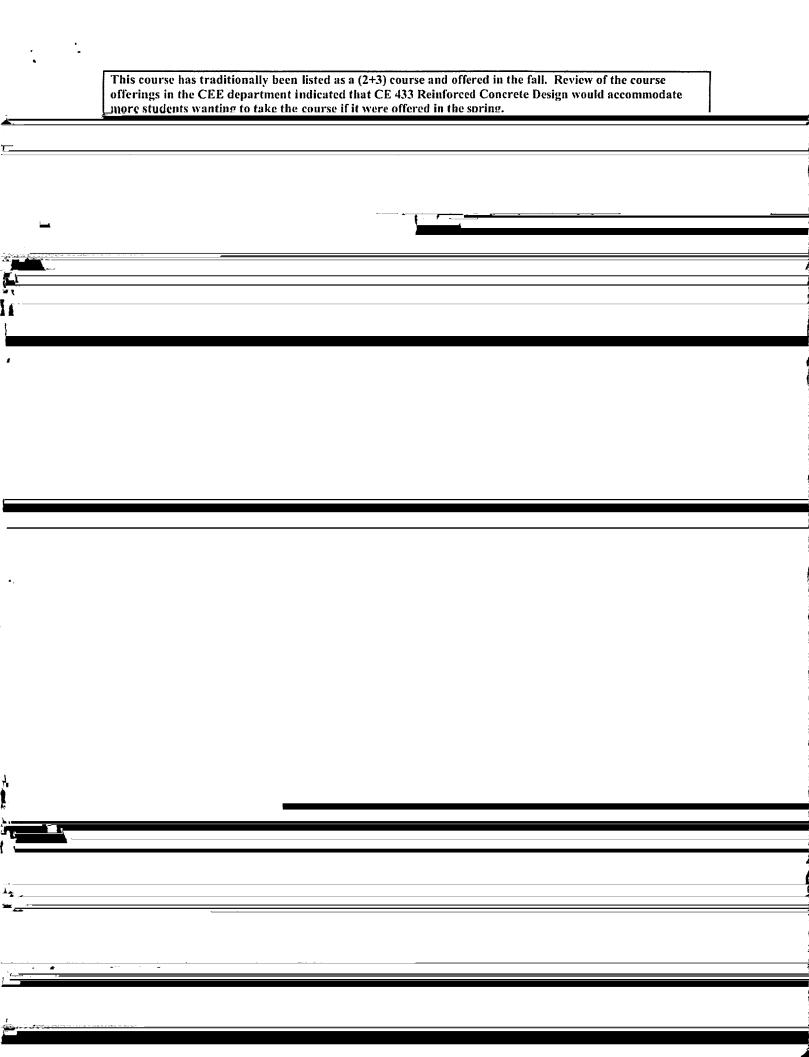
Week 13 Reinforcement detailing

Week 14 Design of Concrete Footings

Anchor Bolt Design

•			FORMA	T 2
	<u> </u>	Submit originals and one copy	and electronic copy to Governance/Faculty Senate O	1111CE
	·			
<u> </u>				
na na				
1 ⁻¹				
g obs				
•				
¥				
•				
_				
A				
, 4				
·				
_				
λ.				
-				
L '				
•				
, }				
<u> </u>				
t s				
· · · · · · · · · · · · · · · · · · ·	_			
<u>.</u>				
		CHANGE COURSE (MAJOR)	and DROP COURSE PROPOSAL	
	SUBMITTED BY:			
	Department		College/Sch CH	EM
	rebar (menc	CEE	ool	2171
				
-	<u>, , , , , , , , , , , , , , , , , , , </u>	·		
4	,			
		₩ 4 **)		
.,				
pr-				
	't			

•	6. CURRENT CATALOG DESCRIPTION AS IT APPEARS IN THE CATALOG: including dept., number, title and credits CE 433 Reinforced Concrete Design	
- (1.)	3 Credits Offered Fall	_
- 		
	9 17 18	
	}-1	
•	V	
T)		
, II		
<u>.</u>		_
	L.	
= .		
<u> </u>		_
■		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		



ATTACH COMPLETE SYLLABUS (as part of this application).

Note: The guidelines are online: http://www.uaf.edu/uafgov/faculty/cd/syllabus.html
The department and campus wide curriculum committees will review the syllabus to
ensure that each of the items listed below are included. If items are missing or
unclear, the proposed course change will be denied.

	SILLABOS CHECKLIST FOR ALL UAF COURSES	
,\	· · · · · · · · · · · · · · · · · · ·	
A		=
34		
= -		
<u> 1 - </u>		
A-1		
} =		
- B		
T.		
5 T.		
	truit.	
\	Econ.	
<u>* - </u>	·	
	<u>·</u>	
-		
-		_
	Although modifications may be made throughout the semester, this document will	
	contain the following information (as applicable to the discipline):	
	1. Course information:	
	Title. I number, Icredits. Iprerequisites, I location, I meeting time	
-		
C	16-7	
<u> </u>		_
<u> </u>		
.T ₌		
1		
, 4		
-		
,		
	2. Instructor (and if applicable, Teaching Assistant) information:	
	☐ Name, ☐ office location, ☐ office hours, ☐ telephone, ☐ email	
	lacksquare Name, $lacksquare$ office hours, $lacksquare$ telephone, $lacksquare$ email address.	
	 □ Name, □ office location, □ office hours, □ telephone, □ email address. 3. Course readings/materials: 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or □ 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or □ 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or □ recommended) and □ any supplies required. 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or recommended) and □ any supplies required. Course description: 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or recommended) and □ any supplies required. Course description: □ Content of the course and how it fits into the broader curriculum; 	
	 Name, □ office location, □ office hours, □ telephone, □ email address. Course readings/materials: □ Course textbook title, □ author, □ edition/publisher. □ Supplementary readings (indicate whether □ required or recommended) and □ any supplies required. Course description: 	

Description in syllabus must be consistent with catalog course

UNIVERSITY OF ALASKA FAIRBANKS DEPARTMENT OF CIVIL & **ENVIRONMENTAL ENGINEERING**

CE 433 Reinforced Concrete Design Syllabus Spring 2011 – 3 Credits

Instructor: Paul V. Perreault, MSCE, PE

Office: Duckering, Room 345

Phone: 3224753 (ask: "Is this an okay time to talk?") Email: pvperreault@alaska.edu, or engineer@cbna.org

Time:

M, W, F 11:45a - 12:45p

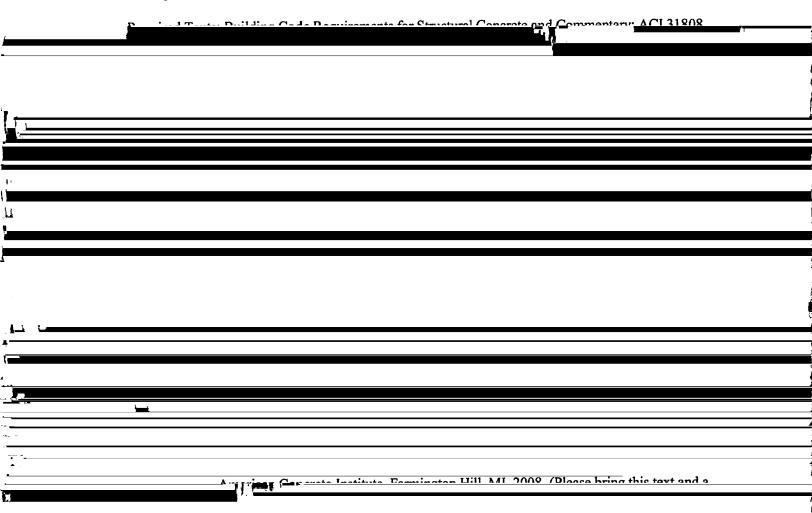
Location:

Duckering, Room 344

Office Hours: 9:00a - 11:00a M,W or by appointment. And, if you see me, regardless of where, I

am open to your questions. Just ask, "Is this an okay time to talk?"

Prerequisites: CE F331, ES F331



Course Content, Selected Portions of:

Week 1 Concrete

What is concrete?

Week 2 Concrete constituents

Concrete testing standards

Week 3 Concrete mix design

Week 4 Design Criteria/ Building Codes

Week 5 Loads and Load Combinations

Reinforcing Steel

Part Part and I

Week 8 Beam Design – torsion

Week 9 Beam Design – serviceability

Week 10 Beam Design – deep beams

Concrete Slab Design

Week 11 Column and Wall Design

Week 12 Designing for Combined Compression and Bending

Week 13 Reinforcement detailing

Week 14 Design of Concrete Footings

Anchor Bolt Design

Student Learning Outcomes: the student should leave the course with knowledge of how to use

ACI 318 to design reinforced concrete elements. The level of competency should be consistent with an entry-level practicing engineer and Professional Engineering

Exam questions on the topic.

Evaluation: Grades are based on absolute scores

Homework 40%

Midterm Exam 20% Final Exam 20%

Classroom Participation

Course Policies: Regular attendance and participation is expected, as well as professional behavior in class (show up on time, no talking during class, no walking out of/back in to class, no walking out of/back in the class of the class of

5%