17-UNC revised

OCT 2 8 2015

FORMAT 1

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500). See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL (Attach copy of syllabus)

BMITTED BY:								
Department	CEE		Colleg	College/School		CEM		
Prepared by	Nathan Belz		Phone	Phone		907-474-5765		
Email Contact	npbelz@alaska.edu		Faculty	Faculty Contact		Nathan Belz		
1. ACTION DESIRED		Trial Co	ourse	e		New Course x		
2. COURSE IDENTIFICATION:		Dept	CE	Course #	471	No. of C	Credits [1.0
	/lower division lber of credits:	This course is mea learned in core con field environment. demonstrate field- topic areas.	urses and tech . One three-ho	nical electives our lab per wee	taken as p k (no lectu	art of the B res) is suffi	SCE prog	ram in a
. PROPOSED	COURSE TITLE:	Field Practic	cum			-		
4. To be CROSS	S LISTED?	NO	If yes, Dept:		Cou	rse #		
	isting requires appro	oval of both departme					additiona	required
. To be STACK	ED?*	NO	If yes, Dept.		7 c	ourse #		
supposed to be two undergraduate and undertaxed? In th	o different courses. d graduate level con is context, the comn	abi (undergraduate an The committees will c tent being offered); 2) nittees are looking out More info online – see	determine: 1) ware undergrad for the interes	hether the two uates being ove ts of the studen	versions are ertaxed?; 3)	re sufficientl are graduat	y different e students	(i.e. is th being
6. FREQUENCY OF OFFERING:		Fall						
		Fall, Spring, Sur	mmer (Every, o	r Even-number Demand \		r Odd-numb	oered Year	s) — or A
7. SEMESTER & YEAR OF FIRST OFFERING (Effective AY2015-16 if approved by 3/31/2015; otherwise AY2016-17)			Fall 2016					
must be approved	urs may not be com I by the college or so I by the Core Reviev	pressed into fewer that hool's curriculum con v Committee.	un three days p uncil. Furthern	er credit. Any core on any core, any core of	course com	pressed to I	fewer than si	x weeks
(check all that a						X	semeste	
(check all that a	pply)					X	semeste	

9. CONTACT HOURS PER WEEK:	LECTURE hours/weeks	3 LAB hours /we	eek	PRACTICUM hours /week
Note: # of credits are based on contact hours. 1600 minutes in non-science lab=1 credit. 24 This must match with the syllabus. See http://wfor-computing-/ for more information on number	800 minutes of lecture=1 co 00-4800 minutes of practice ww.uaf.edu/uafgov/faculty-	redit. 2400 minutes o um=1 credit. 2400-80	of lab in a scien 000 minutes of	ce course=1 credit. internship=1 credit.
OTHER HOURS (specify type)				
. <u>COMPLETE</u> CATALOG DESCRIPTION inc stacking (50 words or less if possible):	cluding dept., number, ti	tle, credits, credit o	distribution, c	cross-listings and/o
CE471 Field Practicum 1.0cr (0+3) Introduction to field data collection tech traffic, water, environmental, and mater senior standing in CEE program or pern	ials; preliminary data an	alysis and descript	olines such as tive statistics.	s structural, Prerequisites:
. COURSE CLASSIFICATIONS: Undergrad classification appropriately; otherwise le	eave fields blank.	Ilt with CLA Currico	ulum Council	to apply S or H
Will this course be used to fulfill a re for the baccalaureate core? If YES, at	equirement tach form.		YES:	NO: x
IF YES, check which core requirement		ill:		
O = Oral Intensive, Format 6	W = Writing Intensive,		X = Bacca	laureate Core
COURSE REPEATABILITY: Is this course repeatable for credit? Justification: Indicate why the course example, the course follows a different		NO [x	
How many times may the course be re	epeated for credit?			TIMES
If the course can be repeated for credi may be earned for this course?	t, what is the maximum	number of credit ho	ours that	CREDITS
If the course can be repeated with <u>var</u> hours that may be earned for this cour		maximum number o	of credit	CREDITS
. GRADING SYSTEM: Specify only one. Course Change – Format 2 form. LETTER: PASS/FAII		ling system for a co	ourse later on	constitutes a Majo
STRICTIONS ON ENROLLMENT (if any)				
	ing in CEE program or			
These will be required	d before the student is all	owed to enroll in the	ne course.	
5. SPECIAL RESTRICTIONS, CONDITION	'S			
6. PROPOSED COURSE FEES \$ 25. Has a memo been subr	00 mitted through your dear	to the Provost for	fee approval? Yes/No	Yes (attached)
7. PREVIOUS HISTORY Has the course been offered as special	topics or trial course pre	viously? Yes/No	NO)

8. ESTIMAT	100 A		NV M/III	TUIC HAVE O	N BUDGET, FACILITIES/SPACE, FACULTY, ETC.
This co as non CE491	ourse v -credit CE se	vill requi	ire six lational action	ooratory conta vities. CE471 no net differe	act hours from select faculty in the CE department and will counted will be taking the place of the combined 1.0cr of the CE 490 and ence in the overall CE teaching effort needed. Course will require umentation as well as transportation of students to and from field
9. LIBRARY	COLL				
Have yo	y of lik	rary/me	dia collec	tions, equipme	elopment officer (kljensen@alaska.edu, 474-6695) with regard to the ent, and services available for the proposed course? If so, give date o
Have yo	y of lik	rary/me	dia collec	tions, equipme plain why not Proposed co	ent, and services available for the proposed course? If so, give date o
Have you adequate contact. No O. IMPACTS What p Include in	x x x x x x x x x x x x x x x x x x x	Yes PROGRA ans/depa ion on the	dia collectif not, expenses of the collection of	Proposed conservices beyond. TS will be affects/Departments conservices beyond.	ent, and services available for the proposed course? If so, give date of the control of the cont
Have you adequate contact. No 10. IMPACT: What p Include in Civil Eranticipa	S ON F rogram informat ted.	PROGRA ns/depa ion on the ing/Scho NEGAT positive a	MS/DEPT ortments we Programs. TIVE IMPA	Proposed conservices beyond	ent, and services available for the proposed course? If so, give date of the proposed course of the course will not require any materials, collections, equipment, or yond that which is already used in other CE courses. The course of the proposed action? The contacted (e.g., email, memo)

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The nature of Civil Engineering requires those in the profession to be knowledgeable and experienced with working in a field environment. This course will improve the connection between classroom concepts and practical real-world field applications. This proposed course directly targets ABET outcome criteria K: ability to use techniques, skills, and modern engineering tools necessary for practice.

1 K Thalis	Date	9/25/2015
Signature, Chair, Program/Department of:		
Lix.	Dete	9-28-15
Signature, Chair, College/School Curriculum Council for:	Date C	1 ()
A (
L A T	Date	10/5/15
Signature, Dean College/School of:		
Offerings above the level of approved programs must be approved	ed in advance b	y the Provost.
	Date	
Signature of Provost (if above level of approved programs)		
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION	I TO THE GOV	EKNANCE OFFICE
	D .	
Signature, Chair	Date	
8	GAAC	
Core Review SADAC		
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or st	acking)	
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or st	acking)	
	acking) Date	
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or statement of:		
	Date	
Signature, Chair, Program/Department of:		
	Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for:	Date	
Signature, Chair, College/School Curriculum Council for:	Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for:	Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission:	Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission:	Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: The submission:	Date Date	
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: C's wates on syllabur Campus CRC will	Date Date Date	likely as
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: C's wetes on syllabur Campus CRC will	Date Date Date	likely as
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: ('S wetes on syllabur) Campus CRC will of the compus of the	Date Date Date	· ·
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: C's wates on syllabur Campas CRC will a for a detailed Laboratory	Date Date Date	· ·
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: ('s notes on syllabur) Campus CRC will of the addited Laboratory and detailed Laboratory (CRC will of the submission of the submissi	Date Date Date Date As to play	n. nitely
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: C's notes on syllabur Campus CRC will for a detailed Labo Campus CRC will	Date Date Date Date As to play	n. nitely
Signature, Chair, Program/Department of: Signature, Chair, College/School Curriculum Council for: Signature, Dean, College/School of: tes re original submission: C's wates on syllabur Campus CRC will	Date Date Date Date As to play	n. nitely

RE: CE471 – Field Practicum - Course Fee Justification

This memo is intended to provide justification for the \$25.00 course fee to be associated with the newly proposed CE471 – Field Practicum course. This course will require storage and maintenance of instrumentation that will be used by the students in the field as well as requiring transportation of students to and from field sites. Though this course fee is not expected to completely offset the full cost of these items, it is intended to ensure at least minimal impact on the department and the university while providing this valuable learning experience. Since a textbook will not be required for this course, the small fee is not considered an exorbitant addition to the overall cost incurred by students.

CE 471 Field Practicum

Tentative Fall 2016 Course Syllabus (updated October 28, 2015)

Instructor

Dr. Leroy Hulsey

jlhulsey@alaska.edu

Labs

3hrs (time and location TBD)

Office Hours

(time and location TBD)

Catalog Data

CE F471

Course Title

Field Practicum

Prerequisites

Senior standing in CEE program or permission of instructor.

Catalog

Description

Introduction to field data collection techniques used in civil engineering subdisciplines such as structural, traffic, water, environmental, and materials;

preliminary data analysis and descriptive statistics.

Credit

1.00 semester hours

Textbook and

Readings

There is no required textbook for this course; readings, lab instructions, and

instrumentation manuals will be distributed as needed.

Course Objectives

Provide students with engineering experience through field and laboratory exercises; engage students with practical collection methods in a real-world environment; strengthen students' ability to work in a team environment.

ng

Student Learning Outcomes Upon completing this course students will be able to apply techniques, skills, and modern engineering tools that are necessary for engineering practice in a

real-world setting.

Communication

Outside of scheduled lectures & office hours, email is the official form of communication. Students are expected to check their UAF email accounts for course updates as it will be used for general announcements and distribution of course materials as necessary.

CE 471 Field Practicum

Tentative Fall 2016 Course Syllabus (updated October 28, 2015)

Grading

Pass/fail. Students must illustrate their proficiency in field methods and techniques and will be evaluated based on the following:

	Pass	Fail
Attendance/Participation (20%) Must be present at and contribute to all lab/field days unless extenuating circumstances exist	Student participated fully in discussion and activities	Student rarely showed up for class or participated in discussion
Team Field Data Collection Assignments (25%) Demonstrates an ability to work in a team environment	Student participated in the assignment and was open to feedback and suggestions from the instructor and fellow students	Student struggled with criticism and feedback, did not communicate well, and did not sufficiently participate
Individual Laboratory Data Processing Assignments (25%) Demonstrates an ability to process field samples and work independently	Evidence of capable field work and goals of the project were met	No or insufficient evidence of capabilities or assignment not completed
Lab Reports (30%) Demonstrates an ability to interpret data and present findings in a clear and logical manner	Report was incomplete and overall presentation was of poor quality	Report was complete, used proper figures and tables, and demonstrated strong communications skills

Academic Integrity

Students are expected to and should strictly comply with UAF's <u>Student Code of Conduct</u>. Offenses against the Code of Academic Integrity and Student Code of Conduct are deemed serious and insult the integrity of the entire academic community. Any suspected violations of the code are taken very seriously. Further university policies addressing plagiarism, fabrication, collusion, and cheating can be found on pp. 50-52 in <u>Academics and Regulations</u>. Any student found violating these codes will be given an automatic failing grade for that assignment. More than one violation will result in a failing grade for the course and will involve disciplinary action.

Disabilities Services

If you have a formal accommodation plan developed in conjunction with the <u>UAF Center for Health and Counseling</u> office please contact me as soon as possible at the start of the semester. If you would like to learn more about your options, these services, or discuss the supports that you need in order to learn well in this class, please contact the coordinator of <u>Disability Services</u> at 474-5655.

Support Services

Students are encouraged to take advantage of the <u>UAF Writing Center</u> (located in 801 Gruening) is staffed with English Department teaching assistants and undergraduate students that can assist you in all phases of the writing process. In addition, the <u>UAF Math Lab</u> offers advice, tutoring, and assistance for classes involving mathematics and statistics.

CE 471 Field Practicum

Tentative Fall 2016 Course Syllabus (updated October 28, 2015)

TENTATIVE FALL 2016 SCHEDULE

Week	Activity / Content
1	Field Day 1: Asphalt Pavement and Concrete Sampling (Dr. Jenny Liu)
2	Lab Day 1: Asphalt Pavement and Concrete Sampling (Dr. Jenny Liu)
3	Field Day 2: Hydrologic Measurements (Dr. Sveta Stuefer) Lab Report 1 Due
4	Lab Day 2: Hydrologic Measurements (Dr. Sveta Stuefer)
5	Field Day 3: Groundwater Sampling (Dr. David Barnes) Lab Report 2 Due
6	Lab Day 3: Groundwater Sampling (Dr. David Barnes)
7	Field Day 4: Bridge and Structural Health Monitoring (Dr. Il-Sang Ahn) Lab Report 3 Due
8	Lab Day 4: Bridge and Structural Health Monitoring (Dr. Il-Sang Ahn)
9	Field Day 5: Traffic Data Collection (Dr. Nathan Belz) Lab Report 4 Due
10	Lab Day 5: Traffic Data Collection (Dr. Nathan Belz)
11	Field Day 6: Frozen Soils and Arctic Issues (Dr. Yuri Shur) Lab Report 5 Due
12	Lab Day 6: Frozen Soils and Arctic Issues (Dr. Yuri Shur)
13	Field Day 7: Air Quality Measurements (Dr. Srijan Aggarwal) Lab Report 6 Due
14	Lab Day 7: Air Quality Measurements (Dr. Srijan Aggarwal)
15	Course Recap / Final Presentations Lab Report 7 Due