Brothers, Sheila

From:	Cramer, Aaron
Sent:	Friday, April 05, 2019 1:39 PM
То:	Bird-Pollan, Jennifer; Brothers, Sheila; Ett-Mims, Joanie
Cc:	Wang, Yitin
Subject:	NEW GC: Structural Engineering
Attachments:	GC in Structural Engineering_rev4319.pdf

Proposed New Graduate Certificate: Structural Engineering

This is a recommendation that the University Senate approve the establishment of a new Graduate Certificate: Structural Engineering, in the Department of Civil Engineering within the College of Engineering.

Rationale: The proposed certificate program will provide students with the necessary background and skills required of structural engineers. There is an increasing workforce need for well-prepared civil engineers to develop more sustainable and resilient infrastructure to replace the nation's aging infrastructure. Demand for civil engineers is projected to grow by 8% by 2024, and the National Council of Examiners for Engineering and Surveying has approved a model licensure law requiring a B.S. plus 30 credit hours to complete professional licensure. The proposed program would serve as a starting point toward these increased licensure requirements. Enrollment of five students growing to 15 students is projected.

Aaron

Aaron M. Cramer Associate Professor, Electrical and Computer Engineering Director of Graduate Studies, Electrical Engineering Chair, Senate Academic Programs Committee University of Kentucky 859-257-9113 aaron.cramer@uky.edu

NEW GRADUATE CERTIFICATE

Certificate Description. A graduate certificate shall have a clear and focused academic topic or competency as its subject, meet a clearly defined educational need of a constituency group, such as required continuing-education or accreditation for a particular profession, respond to a specific state mandate or provide a basic competency in an emerging (preferably interdisciplinary) topic. Certificates are minimally nine graduate credit hours but typically no more than 15.

Approval process. Once approved at the college level, your college will send the proposal to the appropriate Senate academic council (possibly HCCC and/or UC) for review and approval. Once approved at the academic council level, the academic council will send your proposal to the Senate Council office for additional review via a committee and then to the SC and University Senate. (The contact person listed on the form will be informed when the proposal has been sent to committee and other times as appropriate.) The last step in the process is Senate approval; upon Senate approval, students can enroll in the new certificate.

By default, graduate certificates shall be approved for a period of six (6) years. Re-approvals are also for six years.

1. GEN	IERAL INFORMATIO	N				
1a	Home college: <i>Engineering</i>					
1b	Home educational unit (department, school, college ¹): Civil Engineering					
1c	Office of Strategic Planning and Institutional Effectiveness (OSPIE) (Please contact OSPIE (<u>OSPIE@L.uky.edu</u>) for help with questions in this section.)					
	Date of contact with OSPIE:					
		<u> </u>				
		Appended	d to the end of	this form is a PDF of the	reply from	OSPIE.
				ithic forms is a lattar/a) of	م جا مہ : م : م ج	ative feasibility from the
	Appended to the end of this form is a letter(s) of administrative feasibility from the dean(s) of the college(s) offering the certificate.					
	CIP Code (confirmed by OSPIE): 14.0803					
1d	Proposed certificate name: Graduate Certificate in Structural Engineering					
1e	Requested effective	ctive date: Fall semester following approval. OR Specific Date ² : Fall 2019				
	1			1		
1f	Contact person na	me: Y. T. Wan	lg	Email: ywang@uky.edu		Phone: 7-5937
	RVIEW					
2a	1	•	· ·	w graduate certificate. (30		-
				ig Certificate is to provide ructural engineers in respo		with the necessary background
						cture to replace the aging ones
						graduate certificate program
						eginning Fall 2019. We plan to
	offer the first onlin	-		8	v	nird course will be delivered in
	Summer 2020.					

¹ Only cross-disciplinary graduate certificates may be homed at the college level.

² Certificates are typically made effective for the semester following approval. No program will be made effective unless all approvals, up through and including University Senate approval, are received.

NEW <u>GRADUATE CERTIFICATE</u>

2b	This proposed graduate certificate (check all that apply):			
	Has a clear and focused academic competency as its subject.			
	Meets a clearly defined educational need of a constituency group (e.g. continuing education or licensing)			
	Responds to a specific state mandate.			
	Provides a basic competency in an emerging, preferably interdisciplinary, topic.			
2c	Affiliation. Is the graduate certificate affiliated with a degree program? (related to 3c)	Yes 📃 🛛 No 🔀		
	If "yes," include a brief statement of how it will complement the program. If "no," incorporate a statement as to how it will provide an opportunity for a student to gain knowledge or skills not already available at UK. (300 word limit)			
	Since credits earned from the graduate structural engineering certificate can be transferr Science in Civil Engineering Program, this certificate program has the potential to serve Bachelor of Science in Civil Engineering and Master of science in Civil Engineering by s continuing student populations, especially nontraditional ones, to meet the increasing der workforce. Students should be able to transfer the 9 credit hours earned from the Structur Certificate to our Master of Science in Civil Engineering program.	as the bridge between upporting our new and mand from the		
2d	Duplication. Are there similar regional or national offerings?	Yes 🛛 No		
20	If "Yes," explain how the proposed certificate will or will not compete with similar region			
	from U of L. Initially, our certificate program is to provide opportunity for those who nee alternative to a full master's degree. Ultimately, our goal is to offer an online 30-credit h Science in Sustainable Infrastructure to include a broad area of civil engineering includin geotechnical, materials, transportation, environmental, and construction engineering. We expect a number of our own Students, and Western Kentucky University students, with degree in Civil Engineering to enroll in our Department's certificate program instead of o programs.	our degree in Master of ng structures, h a Bachelor of Science		
2e	Rationale and Demand. State the rationale for the new graduate certificate and explain market demand, student requests, state mandate, interdisciplinary topic). (400 word lim	. •		
	Due to the aging domestic infrastructure, the demand for civil engineers is projected to g Additionally, the National Council of Examiners for Engineering and Surveying has appr law requiring a Bachelor of Science in Engineering plus 30 credit hours course work or b degree to qualify for the Principles & Practice Exam. Thus, many civil engineering desig insist on graduates with a master's degree. In addition to the greater personal confidence master's degree, the average national starting salary is at least \$5,000 higher per year for graduates with a master's degree. Therefore, both the need and incentive are there for ou students to pursue a graduate degree or certificate.	row by 8% by 2024. roved a model licensure bachelor plus master n firms are beginning to e associated with a or civil engineering		
2f	Target student population. Check the box(es) that apply to the target student populatio	n		
<u></u>	Currently enrolled graduate students.			
	Post-baccalaureate students.			
2g	Describe the demographics of the intended audience. (150 word limit)			

NEW <u>GRADUATE CERTIFICATE</u>

	who need technical sub- formal education in s	Structural Engineering kills in this field, particu tructural engineering. C er of Science in Civil En	larly fo Other ta	or those who. orgeted stude	se job	assignment r	equirin	ng knowle	edge and
2h	Projected enrollmen	t. What are the enrollm	ent nrc	viections for	the fir	st three year	·c?		
211	riojected enronmen	Year 1		Year 2	the m	st three year	Year	3	
				(Yr. 1 cont	inuina	+ new			ontinuing +
				entering)				entering)	•
	Number of Students	5		10			15		
		·							
2i	Distance learning (D via DL?	L). Initially, will any port	ion of t	he graduate	e certif	icate be offe	red	Yes 🔀	No 🗌
	If "Yes," please indica	ate below the percentag	ge of th	e certificate	that w	/ill be offered	d via DL		
	1% - 24%	25% - 49% 🗌	50%	6 - 74% 🗌		75 - 99% 🗌		100%	\mathbf{S}
3. AD 3a	We will offer three ex functions of Canvas v PowerPoint lecture v weekly. Communication board. All exams willMINISTRATION AND RE Administration. Desc student advising, retor Admissions: The Cert who already are or w (non-degree) status in requirements for admisitatus. Advising: Advising for	-	gradua mit) respons certifica errent su	ting them to course mate vill be grade udents will b te certificate sible for the gram, or thos ate, are eligi te curricului tudents in the	e the as vrials, f ed onli be by e e will k certifi se who ible to m are e Certi	synchronous homework as ne while grad mail, phone, be administer cate curricula simply apply apply for adh the same as t ificate Progra	delivery signme des will and /or red, inc we for po nission hose fo am will	y mode of nts, anno be updat the Cam luding ad admissic ost-baccat The min r post-ba	n Canvas. All otated ted and viewed was discussion Imissions, on. Students laureate nimum ccalaureate ed out by the
3b	Retention: Each cou event a student's pery student to improve th Faculty of Record an certificate director an program. The director of the Graduate Scho	t UK, phone conversation rse instructor will be transformance is not adequate formance is not adequate e performance. d Certificate Director. (A and other faculty who will be must be a member of pool. The faculty of record luate certificate's faculty	<i>cking t</i> <i>e, the ir</i> <i>related</i> Il be res the Gra d must	<i>he progress</i> <i>istructor wil</i> <i>to 2c)</i> The fa sponsible for aduate Facul be comprise	of eac ll comm aculty r planr lty of t	h student on nunicate with of record com ning and part he University pree or more	a bi-we h the str nsists o icipatin y and is faculty	f the grac g in the c appointe	d work with the duate certificate ed by the dean three
	The graduate certific	ate is affiliated with a de	egree p	rogram.				Yes 🗌	No 🔀
	1								1

NEW GRADUATE CERTIFICATE

	If "Yes," list the name of the affiliated degree program below. If "No," describe below th	e process f	or identifying	
	the faculty of record and the certificate director, including selection criteria, term of service of service of the service of	vice, and m	ethod for	
	adding and removing members. (150 word limit)			
	The director of the certificate program will be appointed by the Chair of the Department	of Civil En	gineering.	
	The appointment will be 3 years. Faculty of record will come from our structural enginee	ering area f	aculty in the	
	Department of Civil Engineering. The faculty of record will be responsible for the oversig	ht and dire	ection of the	
	program and will all be voting members. Appointments to the faculty of record will be m	ade yearly	. The	
	faculty of record has the authority to add and remove members, as well as identify the o	ertificate o	lirector.	
	Addition and removal of members to the faculty of record will be made by the Director	with guidar	nce from	
	Department Chair.			
	Faculty of Record:			
	Dr. Issam Harik (CE), Professor - Director			
	Dr. Brad Davis (CE), Associate Professor			
	Dr. Mariant Gutierrez-Soto, Assistant Professor			
3c	Course utilization. Will this graduate certificate include courses from another unit(s)?	Yes	No 🖂	
	If "Yes," two pieces of supporting documentation are required.			
	Check to confirm that appended to the end of this form is a letter of support from the			
	chair/director ³ from which individual courses will be used. The letter must include demonstration of true collaboration between multiple units ⁴ and impact on the course's use on the home educational unit.			
	Check to confirm that appended to the end of this form is verification that the chair/	director of	the other	
	unit has consent from the faculty members of the unit. This typically takes the form of m	neeting mir	nutes.	
3d	Financial Resources. What are the (non-course) resource implications for the proposed	graduate c	ertificate,	
	including any projected budget needs? (300 word limit)	Oulingan	d the College	
	The development and delivery of this online certificate program will be sponsored by UK of Engineering. The College of Engineering has necessary resources to develop a website			
	advertise as well as allow application to the certificate program. Additional marketing m		U	
	developed by the College of Engineering, as necessary.			
3e	Other Resources. Will the proposed certificate utilize resources (e.g. departmentally	Yes	No 🖂	
	controlled equipment or lab space) from additional units/programs?			
	If "Ves" identify the other resources that will be shared (150 word limit)			
	If "Yes," identify the other resources that will be shared. (150 word limit)			
	If "Yes," identify the other resources that will be shared. (150 word limit)			
	If "Yes," identify the other resources that will be shared. (150 word limit) If "Yes," two pieces of supporting documentation are required.			
		e appropri	ate	
	If "Yes," two pieces of supporting documentation are required.	e appropri	ate	
	If "Yes," two pieces of supporting documentation are required. Check to confirm that appended to the end of this form is a letter of support from the chair/director ⁴ of the unit whose "other resources" will be used.			
	If "Yes," two pieces of supporting documentation are required.	director of	the other	

³ A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

⁴ Show evidence of detailed collaborative consultation with such units early in the process.

NEW GRADUATE CERTIFICATE

4. IMP <i>A</i>	CT						
4a	Other related programs. Are there any related UK programs and	certificat	es? Yes No 🔀				
	If "Yes," describe how the new certificate will complement these existing UK offerings. (250 word limit)						
	If "Yes," two pieces of supporting documentation are required.						
	Check to confirm that appended to the end of this form is a letter of support from each potentially-affected academic unit administrators.						
	Check to confirm that appended to the end of this form is verification that the chair/director has input from						
	the faculty members of the unit. This typically takes the form of meeting minutes.						
5. ADM	ISSIONS CRITERIA AND CURRICULUM STRUCTURE						
5a	Admissions criteria. List the admissions criteria for the proposed						
	To be accepted to this program, students must have a degree in ci	-					
	discipline with a minimum GPA of 3.0. Except for those who are a						
	students must apply for Postbaccalaureate (non-degree) status in	order to	be eligible for admission.				
ГЬ	Corre courses List the required correspondence holow						
5b	Core courses. List the required core courses below.						
Prefix 8	Course Title	Credit	Course Status⁵				
Numbe	r	Hrs					
CE 582	Intermediate Structural Analysis	3	Change				
CE 586		3	Change				
CE 687	Advanced Steel Design	3	Change				
			Select one				
			Select one				
	Total Credit Hours of Core Courses:						
5c	Elective courses. List the electives below.						
Prefix &	Course Title	Credit	Course Status ⁶				
Numbe	r	Hrs					
			Select one				
			Select one				
			Select one				
			Select one				
			Select one				
			Select one				

⁵ Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

⁶ Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

NEW <u>GRADUATE CERTIFICATE</u>

5d	Are there any other requirements for the graduate certificate? If "Yes," note below. (150 word limit)	Yes	No	
5e	Is there any other narrative about the graduate certificate that should be included in the Bulletin? If "Yes," please note below. (300 word limit)	Yes	No	
6 455	ESSMENT			
0.733	Student learning outcomes. Please provide the student learning outcomes for the gradu	ate certific	ate. List the	
6a	knowledge, competencies, and skills (learning outcomes) students will be able to do upon completion. (Use			
	action verbs, not simply "understand.") (250 word limit)		- (
	1. Students will apply Engineering and Mathematical models to develop solutions for the	analysis an	d/or design of	
	structural members and systems.			
	2. Students will demonstrate an understanding of contemporary Structural Engineering to	-		
	3. Students will effectively communicate the analysis and/or design of structural members and systems.			
	Student learning outcome (SLO) assessment. How and when will student learning outco	mes be ass	essed? Please	
	map proposed measures to the SLOs they are intended to assess. Do not use grades or indirect measures (e.g.			
6b	focus groups, surveys) as the sole method. Measures likely include artifacts such as course-embedded			
	assessment (e.g., portfolios, research papers or oral presentations); and course-embedded test items (embedded			
	test questions, licensure/certification testing, nationally or state-normed exams). (300 w			
	SLO1: Artifacts will come from the regularly assigned sets of homework that have embed		them analysis	
	and/or design questions requiring the application of Engineering and Mathematical mode		1	
	<i>SLO2: Artifacts will come from the specifically designed and assigned sets of homework that require the use of structural analysis and design computer programs and from the semester project.</i>			
	SLO3: Artifacts will come from the semester project that requires submittal of a PowerPo	int nresent	ation and a	
	design and/or analysis report.	ini preseni	atton and a	
	Note: All artifacts will be assessed using standardized rubrics.			
	Certificate outcome assessment ⁷ . Describe evaluation procedures for the proposed grac			
6c	how the faculty of record will determine whether the program is a success or a failure. Li			
	assessment tools, and the plan of action if the program does not meet its objectives. (25			
	<i>The Structural Engineering Certificate outcome will be assessed using data obtained from</i> <i>1. Graduate Certificate enrollment</i>	i the jollow	ing criteria:	
	 Graduate Certificate completion Graduate Certificate completion 			
	3. Student course evaluations			
	<i>4. Employment rates of the graduates of the program</i>			
	5. New graduate surveys of the program conducted at the time of graduation			
	6. Alumni surveys of the program conducted every 5 years			
	We anticipate enrollment of $15+$ students per year after 3 years with completion of $12+$ st	tudent per j	vear. We	
	expect student course evaluation of all 3 certificate courses to be at or above the mean for comparable courses.			

⁷ This is a plan of how the certificate will be assessed, which is different from assessing student learning outcomes.

NEW <u>GRADUATE CERTIFICATE</u>

а	administrative changes a THER INFORMATION Is there any other inform		duate certificate to add? (1	50 word limit)
'a		nation about the grad	luate certificate to add? (1	50 word limit)
'a		nation about the grac	luate certificate to add? (1	50 word limit)
. AF				· · · · · · · · · · · · · · · · · · ·
. AF				
	PPROVALS/REVIEWS			
	Information below does no	ot supersede the requ	uirement for individual lett	ers of support from educational unit
	administrators and	verification of facult	y support (typically takes the	he form of meeting minutes).
	Reviewing Group	Date	Contact Person Name/Pho	ne/Email
	Name	Approved		
	(Within College) In addit	ion to the informatio	n below, attach documente	ation of department and college approve
а	This typically takes the fo	orm of meeting minu	tes but may also be an emo	ail from the unit head reporting
	department- and college	e-level votes.		
			/ /	
			/ /	
			/ /	
			/ /	
b	(Collaborating and/or Af	fected Units)		
			/ /	
			/ /	
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			/ /	
			/ /	
			/ /	
c	(Senate Academic Counc		Date Approved	Contact Person Name
SC .		cil) es Council (if applicabl		Contact Person Name

Brothers, Sheila

From:	Nikou, Roshan
Sent:	Monday, February 11, 2019 2:47 PM
То:	Bird-Pollan, Jennifer; Brothers, Sheila; Congleton, Nathan; Ett-Mims, Joanie; Jackson,
	Brian; Nikou, Roshan; Price, Cleophus
Cc:	Harmon, Camille; Alcalde, M. Cristina; Mains, Mark; Beck, Matthew; Maginnis, Michael;
	Wang, Yitin; john.silva@uky.edu
Subject:	Transmittals
Attachments:	GC in Diversity and Inclusion.pdf; Positive Youth Development Certificate1.pdf;
	Advanced Materials Characterization final.pdf; GC in Lean System.pdf; Blasting
	Graduate Certificate final.pdf; GC in Structural Engineering.pdf

TO: Jennifer Bird-Pollan, Chair and Sheila Brothers, Coordinator

FROM: Brian Jackson, Chair and Roshan Nikou, Coordinator Graduate Council

The Graduate Council approved the following Certificate and Course Proposals and is now forwarding them to the Senate Council to approve.

Programs/Certificates:

GC in Diversity and Inclusion (related course A&S 600)

GC in Positive Youth Development (PYD)

GC in Advanced Materials Characterization

GC in Explosive and Blasting (related courses MNG 625 and 621)

GC in Structural Engineering

Program/Certificate Changes:

GC in Lean System (related courses MFS 502 and 581)

New Courses:

A&S - 600 - Perspectives on Diversity and Inclusion EPI - 717 - Introduction to Causal Inference MNG - 625 - Identification, Mitigation, and Control of the Environmental MFS - 502 - Introduction to Applied Lean Operations MFS - 581 - Quality Control STA - 674 - Regression Analysis and Design of Experiments STA 678 Statistical Computational Theory and Data Visualization: R and SAS



University of Kentucky Department of Civil Engineering

161A Oliver H. Raymond Bldg.

Lexington, KY 40506-0281 P: 859-257-4856 F: 859-257-4404 www.engr.uky.edu/ce

December 9, 2018

To Whom It May Concern:

Please be advised that the Department of Civil Engineering faculty reviewed the Online Structural Engineering Graduate Certificate via email and there were no concerns or objections raised. The date of their approval is December 6, 2018.

I enthusiastically support the approval of this new certificate program.

Sincerely,

Consult

Reginald R. Souleyrette Chair and Commonwealth Professor E-mail: souleyrette@uky.edu Telephone: 859-257-5309





University of Kentucky College of Engineering

Office of the Dean

351 Ralph G. Anderson Bldg. Lexington, KY 40506-0503 P: 859-257-1687 F: 859-257-5727 www.engr.uky.edu

January 18, 2019

To Whom It May Concern:

This letter is to confirm that the faculty of the College of Engineering has reviewed and approved the attached proposal for a graduate certificate in Structural Engineering. The faculty reviewed the proposal documents via email and there were no concerns raised.

If you have any questions, please contact me.

Sincerely,

Kiney WC

Kimberly Anderson, Ph.D. Associate Dean for Administration and Academic Affairs

See blue.

From:	Pearson, RaeAnne
To:	Brandenburg, Barbara
Cc:	Weber, Annie
Subject:	Notification of intent for Graduate Certificate in Structural Engineering, GCERT1, Post-baccalaureate Certificate (14.0803).
Date:	Tuesday, January 22, 2019 10:09:55 AM

Dear Barbara Brandenburg,

Thank you for submitting a Notification of intent for **Graduate Certificate in Structural Engineering, GCERT1, Post-baccalaureate Certificate (14.0803)**.

My email will serve 2 purposes: 1.) Next steps for SACSCOC, and 2.) Verification and notification that you have contacted OSPIE—a Senate requirement for proposal approval.

1. Next steps for SACSCOC: None required

2. Verification that OSPIE has reviewed the proposal: Based on the documentation presented the proposed program does not constitute a substantive change as defined by the University or SACSCOC, the university's regional accreditor. Therefore, no additional information is required by the Office of Strategic Planning & Institutional Effectiveness at this time. The proposed program change(s) may move forward in accordance with college and university-level approval processes.

IMPORTANT: Certificates (undergraduate and graduate) will be added to the CPE Inventory once they have been approved by the University Senate. For degree programs, an NOI will be submitted by the Office of Strategic Planning and Institutional Effectiveness to CPE and you will need to work closely with our office to ensure that your proposal meets all external CPE requirements and deadlines.

Should you have any questions or concerns about UK's substantive change policy and its procedures, please do not hesitate to contact our office.

Office of Strategic Planning & Institutional Effectiveness University of Kentucky <u>Visit the Office of Strategic Planning and Institutional Effectiveness Website</u>



Office of the Dean College of Engineering 351 Ralph G. Anderson Building Lexington, KY 40506-0503 859 257-1687 *Fax* 859 257-5727 www.engr.uky.edu

April 6, 2019

TO WHOM IT MAY CONCERN:

The College of Engineering has reviewed the proposal for the online graduate certificate in Structural Engineering. This review included the educational aspects and administrative feasibility of the proposed structure. I confirm that the proposal is administratively feasible and it has the support of our college.

Sincerely,

RGBuchik

Rudy Buchheit Dean, College of Engineering



UNIVERSITY OF KENTUCKY DEPARTMENT OF CIVIL ENGINEERING - COLLEGE OF NURSING Fall 2019

CE 582: Intermediate Structural Analysis

A DISTANCE LEARNING COURSE

CREDIT HOURS: 3 credit hours

PREREQUISITES: Undergraduate level course in Structural Analysis (e.g., CE 382 or CE 499), be registered in the College of Engineering, or consent of instructor.

COURSE DESCRIPTION: Analysis of indeterminate, truss, frame and arch structures using energy principles associated with the flexibility and stiffness methods; influence line functions for indeterminate structures; and use of available computer programs for structural analysis and matrix operations.

STUDENT LEARNING OUTCOMES:

- 1. Force (flexibility) method: Analysis of statically indeterminate trusses.
- 2. Force (flexibility) method: Analysis of statically indeterminate beams and frame structures.
- 3. Displacement (stiffness) method: Analysis of statically indeterminate trusses.
- 4. Displacement (stiffness) method: Analysis of statically indeterminate beams and frame structures.

COURSE GOALS OR OBJECTIVES: Understand the basic principles of statically indeterminate structural analysis, and to apply these principles to the design of structures.

COURSE FACULTY:	Issam E. Harik, Ph.D.
Phone:	859-257-3116
Email:	Harik@uky.edu (preferred contact)
Virtual office hours:	By appointment

REQUIRED TEXT: Structural Analysis (10th Edition) by Russell C. Hibbeler, Pearson Publishing, 2018. Isbn10: 0134679725 and Isbn13: 9780134679723

REQUIRED READINGS: Course notes prepared by Dr. Harik (Free pdf download).

CLASS MEETING TIMES: This course will use an on line learning format. The course will be taught via a web-enhanced format and alternative and experiential learning assignments. **Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.**

COURSE CONTENT: Course content will be divided into eight modules. One module will be focused on each week. Each week students will be assigned reading assignments and activities related to module content, and students will be expected to sequentially complete activities as outlined on the class schedule.

COURSE ASSIGNMENTS:

- 1. Homework: There will be 8-sets of homework during the semester.
- 2. Research and/or Analysis Report for Graduate Students and University Scholars:

In order to satisfy the Southern Association of Colleges and Schools (SACS) requirement for graduate students and university scholars registered in a UK CE 500 level course, graduate students and university scholars registered in CE 582 will be required to submit a research and/or analysis report. Graduate students and university scholars will be assigned a topic by the end of the third week of classes.

SUBMISSION OF ASSIGNMENTS:

- Homework and reports must be submitted on Canvas by mid night on the due date.
- In cases of emergency which will prevent completion by the due date/time, please contact the faculty to request an extension PRIOR to the deadline, if possible.
- Assignments must be submitted on Canvas in pdf format.
- Each homework set must be submitted in a single pdf file that is legible after being scanned. It is recommended to use a dark pen or a pencil on white or Engineering paper.
- Homework and report assignments are due by midnight on the due date. Assignments turned in late, but within 24 hours following the due date and time, will be penalized by 20%. Assignments turned in after the 24-hour late window will not be graded.

MID-TERM EXAM: The mid-term exam is based on the material covered for learning outcomes 1 and 2. The mid-term grades will be posted by the deadline established in the Academic Calendar

FINAL EXAM: The final exam will be comprehensive.

NOTES FOR EXAMS:

- A photo ID is required for the exams.
- The mid-term exam and final exam are proctored exams and will be administered on the University of Kentucky campus. However, arrangements can be made to use various proctoring centers. In most instances, a proctoring fee will be incurred. It is the student's responsibility to notify the instructor within the first week of class and provide contact

information for the off-campus proctoring service he or she intends to use.

- The exams are closed books and notes. Equations and other notes will be provided.
- The calculator must be on the list approved for the FE by the NCEES (e.g., HP 33s and HP 35s models, all FX-115 models, all TI-30X and TI-36X models).
- Use of a cell phone and any other electronic devices is not allowed.

NOTES FOR MAKEUP WORK OR EXAMS: Makeup work or exams will only be given with valid excuse. Refer to the "<u>EXCUSED ABSENCES</u>" section for details.

EVALUATION: Evaluation will be based on student achievement of the objectives and student learning outcomes as demonstrated by performance involving the course assignments and exams:

Assignments/Exam	Overall Weight
Homework	20%
Mid-Term Exam	30%
Final Exam	50%

COURSE GRADING:

Grading scale for undergraduate students:

90 - 100% = A 80 - 89% = B 70 - 79% = C 60 - 69% = D< 59% = E

Grading scale for graduate students and University Scholars (no D for Grad Students and University Scholars):

92 - 100% = A82 - 91% = B72 - 81% = C< 71% = E

DISTANCE LEARNING INFORMATION

TEACHING/LEARNING METHODS

This course will be taught using a combination of methods. Students must be self-directed and demonstrate initiative to be successful in an online course. Course faculty are available for support and feedback. The course content/lectures and assignments will be available on Canvas. Students will utilize the internet to perform literature searches, participate in discussions, use email and connect with faculty and classmates through virtual technology in Canvas. Computer technology will enhance the learning process by allowing collaboration with peers and faculty. The course is interactive and participation will be required. All students are required to meet the computer and technology requirements listed below.

COMPUTER ACCESS EXPECTATIONS

Students must meet assignment deadlines, but are not required to be online at specific, assigned times. This is an interactive course and we highly recommend accessing the course in Canvas at least three times per week to be fully engaged and successful. If for some reason, you cannot access the site at home due to temporary computer breakdown or other circumstances, it is your responsibility to access the site through other means (e.g., going to local public or school library). This course is heavy in reading and writing/communications requirements; plan time for interactions and completion of assignments. Technical support is available at: UK Information Technology Center http://www.uky.edu/UKAT/ See the Tech Tips Link

EMAIL REQUIREMENTS

Students are required to use their university email account to send and receive email. Only emails sent through the UK email system will be opened by faculty. Due to the risk of computer viruses, no unauthorized email accounts will be opened by faculty. Any email sent to notify faculty of an impending absence from class or clinical, should include a "Request a Delivery Receipt" or "Request a Read Receipt" before hitting the send button. This feature is located in the "options" tab. *Please check your UK email at least every 48 hours*.

WHAT DOES ONLINE LEARNING MEAN?

This means that the course materials will be available to you on the web and that you will turn assignments in on the web. This does not mean, however, that the course is not interactive. For example, you may participate in on-line discussions with other class members and faculty as needed using virtual meeting technology available through Canvas. Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.

COMPUTER REQUIREMENTS

This web-enhanced course requires the following: (1) a computer with high speed access to the internet (Ethernet, broadband cable or DSL connection) and an internet browser.

MINIMUM REQUIRED LAPTOP COMPUTER HARDWARE

- Processor: Dual Core 1.8 Ghz or higher
- RAM: 4 GB minimum (more preferred)
- Hard Drive: 250 GB or larger preferred (minimum 100 GB or larger)
- Wireless card: 802.11n preferred (minimum 802.11 b/g compatible)
- Operating system: Most recent version for your hardware (for example, Mac 0S 10.10+ or Windows 8+)
- Up-to-date virus software, preferably installed before coming to campus
- Webcam (many laptops come with an integrated webcam and will not require an external device)
- Headphones or headset with microphone
- *Other helpful options:* 2 GB or higher USB Flash Drive, external hard drive (for data backup/extra storage), wired or wireless external mouse, video out adapters (dvi/hdmi), and a laptop security cable

MINIMUM REQUIRED TABLET COMPUTER HARDWARE

- Processor: Dual Core 1.3 Ghz or higher | Apple A5 or higher
- Storage capacity: 32 GB or larger
- Operating system: Most recent version for your hardware (for example, Windows 8.1, Windows RT, iOS 8)

Because tablets have less storage than laptops, tablet users with high-speed Internet connectivity can use UK's virtual desktop and application solution (www.uky.edu/VirtualDEN) to expand the number of applications available to them. See further below in this document about the software this service provides. Also, many tablets have HDMI or USB ports for connecting external monitors, keyboards, mouse, headset, and other devices.

SOFTWARE

Visit https://download.uky.edu/ to learn about software available free of charge or at a reduced rate. If you do not have Microsoft Office 2007 or later then please download Microsoft Office 2007, which is available free to all university students from http://e5.onthehub.com/WebStore/Welcome.aspx?ws=f43536c5-bbb4-dd11-b00d-0030485a6b08&vsro=8&JSEnabled=1

Contact the University of Kentucky Instructional Technology Customer Service Center (257-1300) for download instructions.

It is important to have a basic understanding of how to use the World Wide Web (web) as well as Microsoft Office products (Word, PowerPoint, Excel, and Exchange). If you need assistance, help is available in The Hub, located in the basement of W.T. Young Library. For more information, visit http://www.uky.edu/Libraries/hub. In addition, students should be able to use the internet to access the Medical Center and other UK Libraries, search library data bases, and obtain literature necessary for class work and assignments.

STUDENT SUPPORT

If you have problems with Canvas: Following are the resources available to help you if you are having problems or technical challenges/conflicts when using Canvas. There is 24/7 support through the help tab inside Canvas. If the problems you are having affects completion or submission of an assignment, please email the instructor explaining the problem and the steps you are taking/have taken to correct the problem.

CANVAS SUPPORT

- Please use the Canvas help hotline 844-480-0838 for issues with Canvas or the HELP menu in the Canvas application.
- There are TUTORIALS in Canvas that may be helpful in resolving some issues.
- Canvas Issues: The help button provides links to guides and videos, the hotline number and a link to live chat. Live chat has been particularly helpful to us and they can help a student while they are having the issue.

SUPPORT FROM UKAT

UKAT's Academic Technology Group (ATG) offers online tutorials and face-to-face training, as well as technicians who specialize in troubleshooting issues that arise for students.

- UKIT technicians can be reached by calling 859-218-HELP (4357), where the Customer Service Center can troubleshoot many issues immediately. You can also email 218help@uky.edu. Complicated issues will be escalated to the technicians in ATG.
- Web: http://www.uky.edu/UKAT/

If you need one-on-one assistance, ATG can meet with you to discuss your needs and walk you through the steps. Call 257-8195 to request one-on-one time with one of our staff or student team.

DISTANCE LEARNING PROGRAMS: http://www.uky.edu/ukonline/

OTHER UK TECHNOLOGY SUPPORT SERVICES

Need help with recording your video assignments or uploading them to Canvas? The Media Depot is a student digital media space located in the Hub at William T. Young Library. The Media Depot provides; access to recording equipment and space, editing stations with specialized multimedia software, and technical support for students' development of their academic media projects.

http://www.uky.edu/ukat/mediadepot Phone Number: (859) 323-1105

INSTRUCTOR COMMUNICATIONS

Instructors have agreed to try to maintain the following communication standards:

- Faculty will check email at least daily Monday-Friday and respond as soon as possible but within 2 business days.
- If students have several questions about something or are confused, then they should call their faculty member. If the faculty member is not available, then a voicemail message should be left.
- There is a discussion board set up in Canvas where you may post questions and view answers to other students' questions. Faculty will check this board frequently.

LIBRARY RESOURCES

Distance Learning Library Services Web: http://libraries.uky.edu/DLLS Carla Cantagallo, DL Librarian Phone: 859 257-0500, ext. 2171 Long distance phone number (800) 828-0439 (option #6) Email: carla@.uky.edu DL Interlibrary Loan Service: http://libraries.uky.edu/page.php?lweb_id=253

COURSE EVALUATION

The University policy on faculty performance review requires that faculty obtain student evaluations of teaching for every course every semester. To meet this requirement, the College of Nursing uses web-based surveys on a confidential site for faculty and course evaluation. All students enrolled in this course are required to access the CoursEval website to fill out evaluations or to decline the opportunity within the designated time frame. Students should take this opportunity to provide serious input regarding faculty performance and course evaluation. These evaluations are used by the College of Nursing to improve the curriculum and enhance faculty teaching. Evaluations are completely anonymous. The information is compiled and shared with individual faculty members and appropriate administrators only after final grades are submitted. **To receive announcements about the evaluations, students must activate and use their UK email addresses. Forwarding UK email to an alternate address is <u>not</u> a viable option.**

COURSE POLICIES AND PROFESSIONAL STANDARDS ATTENDANCE:

EXCUSED ABSENCES

Students need to notify the professor of absences prior to class if possible. *Senate Rules 5.2.4.2* defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, (e) full-time job, (f) graduate school interview for graduating students, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Two weeks prior to the absence is reasonable, but should not be given any later. Information regarding major religious holidays may be obtained through the Ombud (859-257-3737,

http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php.

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused) per University policy.

MAKE-UP ASSIGNMENTS

Per *Senate Rule 5.2.4.2*, students missing any graded work due to an excused absence are responsible: for informing the Instructor of Record about their excused absence within one week following the period of the excused absence (except where prior notification is required); and for making up the missed work. The professor must give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred.

VERIFICATION OF ABSENCES

Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness, or death in the family. Appropriate notification of absences due to University-related trips is required prior to the absence when feasible and in no case more than one week after the absence. beginning the practicum.

ACADEMIC INTEGRITY

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <u>http://www.uky.edu/Ombud.</u> A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited. Part II of *Student Rights and Responsibilities* (available online

<u>http://www.uky.edu/StudentAffairs/Code/part2.html</u>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.

ACCOMODATIONS DUE TO DISABILITY

"If you have a documented disability that requires academic accommodations, please see me as soon as possible during virtual office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. It is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at <u>drc@uky.edu</u>. Their web address is <u>http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/</u>.

	New Cou	rse Form	
w Course			
	Turn o	n help text	
* denotes required	fields		
1. General Informat	lion		
a. Submitted by the College of:*		8H000)	
b. Department/ Division:*		0)	
c. Contact Person Name:*	Issam E. Harik		
Email:*	Harik	Phone:*	859-257-3116
d. Requested Effective Date:*	approval	If Specific Term/Year:	Fall 2019
	 Specific Term/Year 		
51	Ily made effective for the ser oprovals are received.	mester following approva	I. No course will be made
Is this course clinical? Also			
select "Yes" if the course is not clinical but you			
wish for the course to be reviewed by the HCCC*			
	The course will be part of the will be delivered via Distance		
2. Designation and	Description of Proposed Co	ourse.	
a. Will this course also be offered	• Yes O No		
through Distance Learning?*			
You must also sub considered for DL (mit the Distance Learning Fo delivery.	orm in order for the propo	osed course to be
b. Prefix:*	CE	Number:*	582
c. Full Title:*	Intermediate Structural Ana	alysis	
d. Transcript Title (if full title is			
more than 40 characters):			
e. To be Cross- listed with (Prefix			
and Number):			om the chair of the cross-
and Number):	in the Proposal Toolbox, att	ach a letter of support fro	

laboratory meeting. Laboratory meeting,	generally, re: two	hours per week	for a semester for	one
credit hour. (from SR 5.2.1)				

For courses with variable credit, please use the following format (no spaces): #-##

Lecture:	
Laboratory:	
Clinical:	
Colloquium:	
Seminar:	
Studio:	
Recitation:	
Residency:	
Discussion:	
Indep.Study:	
Practicum:	
Research:	
Other:	
g. Identify a	• Letter (A, B, C, etc.)
grading system:*	Pass/Fail
	Medicine Numeric Grade
	Graduate Level Grade Scale
h. Number of credits:*	3
i. Is this course repeatable for additional	○ Yes [●] No
credit?*	
If YES: Maximum	
number of credit hours:	
If YES: Will this	Yes 💿 No
multiple	
registrations during the same semester?	
Description for	Analysis of indeterminate, truss, frame and arch structures using energy principles associated with the flexibility and stiffness methods; influence line functions for indeterminate structures; and use of available computer programs for structural analysis and matrix operations.
k. Prerequisites, if any:	CE 382 or CE 499, or consent of instructor.
3. Will this course b	e taught off campus?
a.*	Yes • No
If YES, enter the off campus address:	
auress.	
4. Frequency of Co	urse Offering.
a. Course will be	Spring Summer Winter
offered (check all that apply):*	
b. Will the course be offered every	• Yes O No
year?*	
If No, explain:	
5. Facilities and Per	rsonnel
a. Are facilities	Vor No
and personnel necessary for the	

a. no, explailli	The course will be delivered as a distance learning course via Canvas.
	The course will be derivered as a distance learning course vid CaliVas.
6. Enrollment	
a. What enrollment (per	10 to 15 students. The enrollment may be low the first year.
section per semester) may reasonably be expected?*	
7. Anticipated Stude	ent Demand.
a. Will this course serve students	○ Yes ⊙ No
primarily within the degree program?*	
b. Will it be of interest to a	• Yes O No
significant number of students outside the degree pgm?*	
If YES, explain:	The students taking this course are graduate civil engineering students who hold a BS in Civil Engineering and are currently working in a design firm. They do not require access to the usual student services.
	This course is part of a 3-course proposed Graduate Structural Engineering Certificate within the Department of Civil Engineering.
8. Check the catego	bry most applicable to this course:
Check one:*	Traditional – Offered in Corresponding Departments at Universities Elegymberg
	Elsewhere Relatively New – Now Being Widely Established
	Not Yet Found in Many (or Any) Other Universities
9. Course Relations a. Is this course	
part of a proposed new program?*	
If YES, name the proposed new program:	Graduate Certificate in Structural Engineering
proposed new	
proposed new program: b. Will this course	
proposed new program: b. Will this course be a new requirement for	○ Yes [●] No
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list	○ Yes [●] No
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs:	○ Yes [●] No
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs: In order to change a	○ Yes ● No
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs: In order to change a 10. Information to b	Yes • No
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs: In order to change a 10. Information to b a. Is the course at the 400G- or 500- level?*	 Yes ● No a program, a program change form must also be submitted. a Placed on Syllabus. ● Yes ○ No No <i>itation for undergraduate and graduate students must be included</i> in the d in 10.b. You must include: (i) identification of additional assignments by t and/or (ii) establishment of different grading criteria in the course for
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs: In order to change a 10. Information to b a. Is the course at the 400G- or 500- level?* If YES, the <i>different</i> information require graduate students; graduate students.	 Yes ● No a program, a program change form must also be submitted. a Placed on Syllabus. ● Yes ○ No No <i>itation for undergraduate and graduate students must be included</i> in the d in 10.b. You must include: (i) identification of additional assignments by t and/or (ii) establishment of different grading criteria in the course for
proposed new program: b. Will this course be a new requirement for ANY program?* If YES, list affected programs: In order to change a 10. Information to b a. Is the course at the 400G- or 500- level?* If YES, the <i>different</i> information require graduate students; graduate students.	 Yes ● No a program, a program change form must also be submitted. a program, a program change form must also be submitted. e Placed on Syllabus. Yes ○ No Vation for undergraduate and graduate students must be included in the d in 10.b. You must include: (i) identification of additional assignments by t and/or (ii) establishment of different grading criteria in the course for (See SR 3.1.4) b. *The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if appl 10.a above) are attached.

change in deliver mode. All fields are required!

Introduction/Definition: For the purposes of the Commission on Colleges Southern Association of Colleges and Schools accreditation review, *distance learning* is defined as a formal educational process in which the majority of the instruction (interaction between students and instructors and among students) in a course occurs when students and instructors are not in the same place. Instruction may be synchronous or asynchronous. A distance learning (DL) course may employ correspondence study, or audio, video, or computer technologies.

A number of specific requirements are listed for DL courses. The *department* proposing the change in delivery method is responsible for ensuring that the requirements below are satisfied at the individual course level. It is the responsibility of the instructor to have read and understood the university-level assurances regarding an equivalent experience for students utilizing DL (available at <u>http://www.uky.edu/USC/New/forms.htm</u>).

Instructor Name:	Issam E. Harik Instructor Email: Harik@uky.edu	
	Internet/Web-based Interactive Video Hybrid	
Curriculum and Ir	struction	
course provide for timely and	Students and faculty will asynchronously engage at least weekly during online discussions, emails, and submittals. Students will interact asynchronously at least weekly in online discussions. The course syllabus conforms to University Guidelines for distance learning.	
ensure that the experience for DL	Students will view the same lectures as they would view if they were in a traditional classroom environment. They will complete the same homework and exams. They will be able to ask the instructor for help using Canvas, email, or phone.	
integrity of	Students are allowed to work together on homework assignments, although each must submit individual work via Canvas, which is password protected. Exams will be proctored on campus or at testing centers.	
4. Are you adding distance learning delivery to this course as part of an effort to offer a complete degree program 100% online?	○ Yes [●] No	
	The students taking this course are graduate civil engineering students. They do not require access to the usual student services.	
students taking		
Library and Learn	ing Resources	
	No learning resources are needed outside those provided by the instructor. The course homework assignments and exams will ensure that the students	

ensure that students make appropriate use of learning resources?	make appropriate use of the learning resources.
specifically how	No such resources are required. In addition to the required textbook, all additional required course material (lecture notes, relevant documents, etc.) will be provided free of charge by the instructor through Canvas.
Student Services	
8. How are students informed of procedures for resolving	Students will contact the instructor if they have difficulties. Also, the syllabus provides contact information for Distance Learning Library Services. Canvas and UK IT support information is avail able in Canvas. Students will be advised to call Canvas help hotline or live chat (available 24 hours/day) for issues related to course accessibility.
	tline/Chat (<u>https://uk.instructure.com/;</u> Click Help Button for 24/7 service) logy Services (ITS) Service Desk (<u>http://www.uky/edu/UKIT/Help/</u>)
9. Will the course be delivered via services available through ITS Academic Technologies & Faculty Engagement?	
in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.	
10. Does the syllabus contain all the required components, below?	✓ Yes
The technolo Contact infor Web: <u>h</u>	rirtual office hours, if any. gical requirements for the course. mation for Information Technology Customer Service Center: http://www.uky.edu/UKIT/ : 859-218-HELP
Procedure fo Preferred me Maximum tim	of or Distance Learning Programs: <u>http://www.uky.edu/ukonline/</u> r resolving technical complaints. thod for reaching instructor, e.g. email, phone, text message. leframe for responding to student communications. rtaining academic accommodations:
"If you have accommoda hours. In or me with a Lu (DRC). The i with disabil in the Multi phone at (85	a documented disability that requires academic tions, please see me as soon as possible during scheduled office der to receive accommodations in this course, you must provide etter of Accommodation from the Disability Resource Center DRC coordinates campus disability services available to students ities. It is located on the corner of Rose Street and Huguelet Drive disciplinary Science Building, Suite 407. You can reach them via 59) 257-2754 and via email at <u>drc@uky.edu</u> , Their web address is <u>ouky.edu/StudentAffairs/DisabilityResourceCenter/</u> .
Carla C Web: <u>h</u> Phone	on Distance Learning Library Services Cantagallo, DL Librarian <u>http://libraries.uky.edu/DLLS</u> : 859 218-1240 carla@.uky.edu

11. I, the instructor regarding DL.	of record, have read and understood all of the university-level statements
Instructor Name:	Issam E. Harik
Administration	Use Only
OBJID	

UNIVERSITY OF KENTUCKY DEPARTMENT OF CIVIL ENGINEERING - COLLEGE OF NURSING Spring 2020 CE 586: Prestressed Concrete

A DISTANCE LEARNING COURSE

CREDIT HOURS: 3 credit hours

PREREQUISITES: Undergraduate level course in Reinforced Concrete (e.g., CE 486G, CE 482, or CE 499), be registered in the College of Engineering, or consent of instructor.

COURSE DESCRIPTION: Fundamental basis and underlying principles for the analysis and design of Prestressed concrete. Working stress and ultimate strength design methods, full and partial prestressing. Design for shear and torsion, deflection, crack control, and long-term effects, and prestress losses. Composite beams, slabs, short and slender columns, precast structures and their connections.

STUDENT LEARNING OUTCOMES:

- 1. Flexure: Working stress analysis and design of prestressed concrete beams.
- 2. Flexure: Ultimate strength analysis and design of prestressed concrete beams.
- 3. Shear design of prestressed concrete beams.
- 4. Prestress losses.
- 5. Continuous prestressed concrete beams.

COURSE GOALS OR OBJECTIVES: Understanding of the basic principles for the analysis and design of prestressed concrete structural members.

COURSE FACULTY: Issam E. Harik, Ph.D. Phone: 859-257-3116 Email: <u>Harik@uky.edu</u> (preferred contact) Virtual office hours: By appointment

REQUIRED TEXT: Course notes prepared by Dr. Harik (Free pdf download).

REFERENCES: 1. ACI 318 Code + Commentary 2. AASHTO LRFD Code **CLASS MEETING TIMES:** This course will use an on line learning format. The course will be taught via a web-enhanced format and alternative and experiential learning assignments. **Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.**

COURSE CONTENT: Course content will be divided into five modules corresponding to the learning outcomes. Modules 1, 2, and 3 are divided into four submodules each, and modules 4 and 5 are divided into two submodules each. Each submodule will be focused on each week. Each week students will be assigned reading assignments and activities related to submodule content.

COURSE ASSIGNMENTS:

1. Homework: There will be 8-sets of homework during the semester.

2. Semester Project:

- A project will be identified for each student by the end of the third week of classes.
- The project report outline is due by mid-February (Date TBD).
- The project report and presentation are due by the first week in April (Date TBD).
- Oral presentations will be held on Canvas during the second week in April (Date TBD).
- The report and oral presentation will count 10% of the total course grade.

3. Research and/or Analysis Report for Graduate Students and University Scholars:

In order to satisfy the Southern Association of Colleges and Schools (SACS) requirement for graduate students and university scholars registered in a UK CE 500 level course, graduate students and university scholars registered in CE 586 will be required to submit a research and/or analysis report. Graduate students and university scholars will be assigned a topic by the end of the third week of classes.

SUBMISSION OF ASSIGNMENTS:

- Homework and reports must be submitted on Canvas by mid night on the due date.
- In cases of emergency which will prevent completion by the due date/time, please contact the faculty to request an extension PRIOR to the deadline, if possible.
- Assignments must be submitted on Canvas in pdf format.
- Each homework set must be submitted in a single pdf file that is legible after being scanned. It is recommended to use a dark pen or a pencil on white or Engineering paper.
- Homework and report assignments are due by midnight on the due date. Assignments turned in late, but within 24 hours following the due date and time, will be penalized by 20%. Assignments turned in after the 24-hour late window will not be graded.

MID-TERM EXAM: The mid-term exam is based on the material covered for learning outcomes 1 and 2. The mid-term grades will be posted by the deadline established in the Academic Calendar

FINAL EXAM: The final exam will be comprehensive.

NOTES FOR EXAMS:

- A photo ID is required for the exams.
- The mid-term exam and final exam are proctored exams and will be administered on the University of Kentucky campus. However, arrangements can be made to use various proctoring centers. In most instances, a proctoring fee will be incurred. It is the student's responsibility to notify the instructor within the first week of class and provide contact information for the off-campus proctoring service he or she intends to use.
- The exams are closed books and notes. Equations and other notes will be provided.
- The calculator must be on the list approved for the FE by the NCEES (e.g., HP 33s and HP 35s models, all FX-115 models, all TI-30X and TI-36X models).
- Use of a cell phone and any other electronic devices is not allowed.

NOTES FOR MAKEUP WORK OR EXAMS: Makeup work or exams will only be given with valid excuse. Refer to the "<u>EXCUSED ABSENCES</u>" section for details.

EVALUATION: Evaluation will be based on student achievement of the objectives and student learning outcomes as demonstrated by performance involving the course assignments and exams:

Assignments/Exam	Overall Weight
Homework	20%
Semester Project	10%
Mid-Term Exam	30%
Final Exam	40%

COURSE GRADING:

Grading scale for undergraduate students:

- 90 100% = A
- 80 89% = B
- 70 79% = C
- 60 69% = D
 - < 59% = E

Grading scale for graduate students and University Scholars (no D for Grad Students and University Scholars):

92 - 100% = A 82 - 91% = B 72 - 81% = C< 71% = E

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Students are required to use their university email account to send and receive email. Only emails sent through the UK email system will be opened by faculty. Due to the risk of computer viruses, no unauthorized email accounts will be opened by faculty. Any email sent to notify faculty of an impending absence from class or clinical, should include a "Request a Delivery Receipt" or "Request a Read Receipt" before hitting the send button. This feature is located in the "options" tab. *Please check your UK email at least every 48 hours*.

WHAT DOES ONLINE LEARNING MEAN?

This means that the course materials will be available to you on the web and that you will turn assignments in on the web. This does not mean, however, that the course is not interactive. For example, you may participate in on-line discussions with other class members and faculty as needed using virtual meeting technology available through Canvas. Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.

COMPUTER REQUIREMENTS

This web-enhanced course requires the following: (1) a computer with high speed access to the internet (Ethernet, broadband cable or DSL connection) and an internet browser.

MINIMUM REQUIRED LAPTOP COMPUTER HARDWARE

- Processor: Dual Core 1.8 Ghz or higher
- RAM: 4 GB minimum (more preferred)
- Hard Drive: 250 GB or larger preferred (minimum 100 GB or larger)
- Wireless card: 802.11n preferred (minimum 802.11 b/g compatible)
- Operating system: Most recent version for your hardware (for example, Mac 0S 10.10+ or Windows 8+)
- Up-to-date virus software, preferably installed before coming to campus
- Webcam (many laptops come with an integrated webcam and will not require an external device)
- Headphones or headset with microphone
- *Other helpful options:* 2 GB or higher USB Flash Drive, external hard drive (for data backup/extra storage), wired or wireless external mouse, video out adapters (dvi/hdmi), and a laptop security cable

MINIMUM REQUIRED TABLET COMPUTER HARDWARE

- Processor: Dual Core 1.3 Ghz or higher | Apple A5 or higher
- Storage capacity: 32 GB or larger
- Operating system: Most recent version for your hardware (for example, Windows 8.1, Windows RT, iOS 8)

Because tablets have less storage than laptops, tablet users with high-speed Internet connectivity can use UK's virtual desktop and application solution (www.uky.edu/VirtualDEN) to expand the number of applications available to them. See further below in this document about the software this service provides. Also, many tablets have HDMI or USB ports for connecting external monitors, keyboards, mouse, headset, and other devices.

SOFTWARE

Visit https://download.uky.edu/ to learn about software available free of charge or at a reduced rate. If you do not have Microsoft Office 2007 or later then please download Microsoft Office 2007, which is available free to all university students from http://e5.onthehub.com/WebStore/Welcome.aspx?ws=f43536c5-bbb4-dd11-b00d-0030485a6b08&vsro=8&JSEnabled=1

Contact the University of Kentucky Instructional Technology Customer Service Center (257-1300) for download instructions.

It is important to have a basic understanding of how to use the World Wide Web (web) as well as Microsoft Office products (Word, PowerPoint, Excel, and Exchange). If you need assistance, help is available in The Hub, located in the basement of W.T. Young Library. For more information, visit http://www.uky.edu/Libraries/hub. In addition, students should be able to use the internet to access the Medical Center and other UK Libraries, search library data bases, and obtain literature necessary for class work and assignments.

STUDENT SUPPORT

If you have problems with Canvas: Following are the resources available to help you if you are having problems or technical challenges/conflicts when using Canvas. There is 24/7 support through the help tab inside Canvas. If the problems you are having affects completion or submission of an assignment, please email the instructor explaining the problem and the steps you are taking/have taken to correct the problem.

CANVAS SUPPORT

- Please use the Canvas help hotline 844-480-0838 for issues with Canvas or the HELP menu in the Canvas application.
- There are TUTORIALS in Canvas that may be helpful in resolving some issues.
- Canvas Issues: The help button provides links to guides and videos, the hotline number and a link to live chat. Live chat has been particularly helpful to us and they can help a student while they are having the issue.

SUPPORT FROM UKAT

UKAT's Academic Technology Group (ATG) offers online tutorials and face-to-face training, as well as technicians who specialize in troubleshooting issues that arise for students.

- UKIT technicians can be reached by calling 859-218-HELP (4357), where the Customer Service Center can troubleshoot many issues immediately. You can also email 218help@uky.edu. Complicated issues will be escalated to the technicians in ATG.
- Web: http://www.uky.edu/UKAT/

If you need one-on-one assistance, ATG can meet with you to discuss your needs and walk you through the steps. Call 257-8195 to request one-on-one time with one of our staff or student team.

DISTANCE LEARNING PROGRAMS: http://www.uky.edu/ukonline/

OTHER UK TECHNOLOGY SUPPORT SERVICES

Need help with recording your video assignments or uploading them to Canvas? The Media Depot is a student digital media space located in the Hub at William T. Young Library. The Media Depot provides; access to recording equipment and space, editing stations with specialized multimedia software, and technical support for students' development of their academic media projects.

http://www.uky.edu/ukat/mediadepot Phone Number: (859) 323-1105

INSTRUCTOR COMMUNICATIONS

Instructors have agreed to try to maintain the following communication standards:

- Faculty will check email at least daily Monday-Friday and respond as soon as possible but within 2 business days.
- If students have several questions about something or are confused, then they should call their faculty member. If the faculty member is not available, then a voicemail message should be left.
- There is a discussion board set up in Canvas where you may post questions and view answers to other students' questions. Faculty will check this board frequently.

LIBRARY RESOURCES

Distance Learning Library Services Web: http://libraries.uky.edu/DLLS Carla Cantagallo, DL Librarian Phone: 859 257-0500, ext. 2171 Long distance phone number (800) 828-0439 (option #6) Email: carla@.uky.edu DL Interlibrary Loan Service: http://libraries.uky.edu/page.php?lweb_id=253

COURSE EVALUATION

The University policy on faculty performance review requires that faculty obtain student evaluations of teaching for every course every semester. To meet this requirement, the College of Nursing uses web-based surveys on a confidential site for faculty and course evaluation. All students enrolled in this course are required to access the CoursEval website to fill out evaluations or to decline the opportunity within the designated time frame. Students should take this opportunity to provide serious input regarding faculty performance and course evaluation. These evaluations are used by the College of Nursing to improve the curriculum and enhance faculty teaching. Evaluations are completely anonymous. The information is compiled and shared with individual faculty members and appropriate administrators only after final grades are submitted. **To receive announcements about the evaluations, students must activate and use their UK email addresses. Forwarding UK email to an alternate address is <u>not</u> a viable option.**

COURSE POLICIES AND PROFESSIONAL STANDARDS ATTENDANCE:

EXCUSED ABSENCES

Students need to notify the professor of absences prior to class if possible. *Senate Rules 5.2.4.2* defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, (e) full-time job, (f) graduate school interview for graduating students, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Two weeks prior to the absence is reasonable, but should not be given any later. Information regarding major religious holidays may be obtained through the Ombud (859-257-3737,

http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php.

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused) per University policy.

MAKE-UP ASSIGNMENTS

Per *Senate Rule 5.2.4.2*, students missing any graded work due to an excused absence are responsible: for informing the Instructor of Record about their excused absence within one week following the period of the excused absence (except where prior notification is required); and for making up the missed work. The professor must give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred.

VERIFICATION OF ABSENCES

Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness, or death in the family. Appropriate notification of absences due to University-related trips is required prior to the absence when feasible and in no case more than one week after the absence. beginning the practicum.

ACADEMIC INTEGRITY

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <u>http://www.uky.edu/Ombud.</u> A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited. Part II of *Student Rights and Responsibilities* (available online

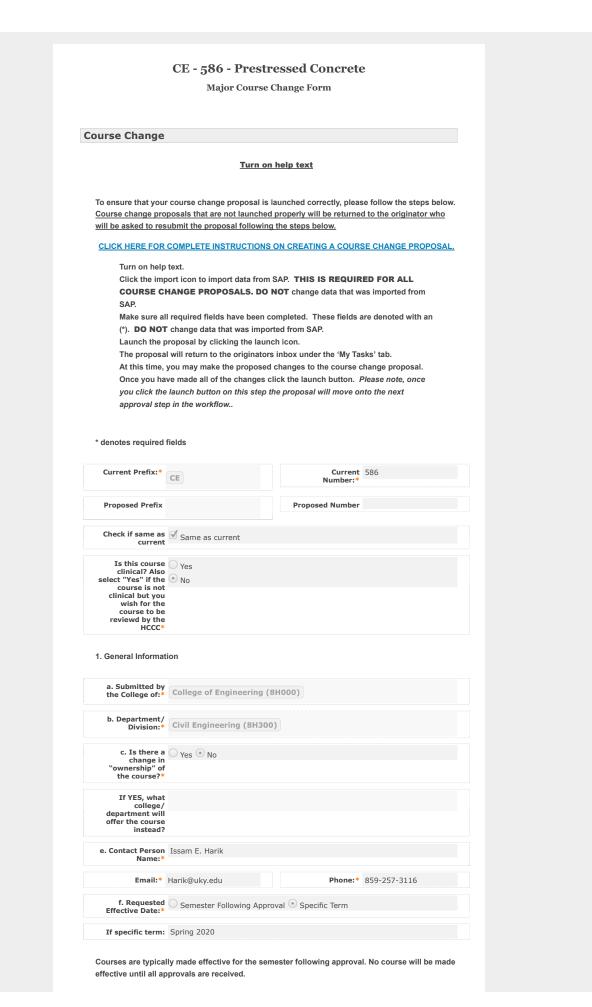
<u>http://www.uky.edu/StudentAffairs/Code/part2.html</u>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.

ACCOMODATIONS DUE TO DISABILITY

"If you have a documented disability that requires academic accommodations, please see me as soon as possible during virtual office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. It is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at <u>drc@uky.edu</u>. Their web address is http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/.



	will be delivered via Distance learning in an online format through Canvas.
Designation and	Description of Proposed Course.
a. Distance Learning(DL) Status:*	N/A Already approved for DL* Please Add Please Drop
lready approved for DL	*If already approved for DL, the Distance Learning Form must also be submitted unless the department affirms (by checking this box) that the proposed changes do not affect DL delivery.
aracters, THEN, t	e course needs to be written out in the first box and IF the title is more than 40 he title needs to be shortened for the insertion on the transcript. The full title at is put in the bulletin and the second is what is inserted on the transcript.
b. Current Title:*	Prestressed Concrete
Proposed Title*	Prestressed Concrete
c. Transcript Title (if full title is more than 40 characters):	
d. Current Cross- listing:*	N/A Currently Cross-listed
Currently Cross- sted with (Prefix & Number):	
ADD Cross-listing (Prefix & Number):	
REMOVE Cross- listing (Prefix & Number):	
	in the Proposal Toolbox, attach a letter of support from the chair of the cross-
sting department. Courses must be ctual contact hour enerally, undergra f classroom meeti	described by at least one of the meeting patterns below. Include number of s for each meeting pattern type. Id courses are developed such that one semester hr of credit represents 1 hr ng per wk for a semester, exclusive of any lab meeting. Lab meeting generally
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sting department. Courses must be ctual contact hour enerally, undergra f classroom meeti apresents at least or courses with va Lecture: Laboratory: Clinical: Colloquium: Seminar: Studio: Recitation: Residency: Discussion:	described by at least one of the meeting patterns below. Include number of s for each meeting pattern type. Ind courses are developed such that one semester hr of credit represents 1 hr ng per wk for a semester, exclusive of any lab meeting. Lab meeting generally two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.) ariable credit, please use the following format (no spaces): #-##
sting department. Courses must be ctual contact hour enerally, undergra f classroom meeti apresents at least or courses with va Lecture: Laboratory: Clinical: Colloquium: Seminar: Studio: Recitation: Residency: Discussion: Indep. Study:	described by at least one of the meeting patterns below. Include number of s for each meeting pattern type. Ind courses are developed such that one semester hr of credit represents 1 hr ng per wk for a semester, exclusive of any lab meeting. Lab meeting generally two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.) ariable credit, please use the following format (no spaces): #-##
sting department. Courses must be ctual contact hour enerally, undergra f classroom meeti opresents at least or courses with va Lecture: Laboratory: Clinical: Colloquium: Seminar: Studio: Recitation: Residency: Discussion: Indep. Study: Practicum:	described by at least one of the meeting patterns below. Include number of s for each meeting pattern type. Ind courses are developed such that one semester hr of credit represents 1 hr ng per wk for a semester, exclusive of any lab meeting. Lab meeting generally two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.) ariable credit, please use the following format (no spaces): #-##

	Medicine Numeric Grade Graduate Level Grade Scale
Please Explain:	
g. Number of credit hours:*	
h. Is this course repeatable for additional	○ Yes ⊙ No
credit?*	
If YES, Maximum number of credit hours:	
If YES, Will this course allow	○ Yes ^③ No
multiple registrations during the same semester?	
Description for	Fundamental basis and underlying principles for the analysis and design of Prestressed concrete. Working stress and ultimate strength design methods, full and partial prestressing. Design for shear and torsion, deflection, crack control, and long-term effects, and prestress losses. Composite beams, slabs, short and slender columns, precast structures and their connections.
	CE 486G, or CE 482, or CE 499, be registered in the College of Engineering, or consent of instructor.
3. Is this course tau	ight off campus?
a.*	○ Yes ④ No
If YES, enter the off campus address:	
	○ Yes ● No
If YES, explain and offer brief rationale:	
5. Course Relations	hip to Program(s).
a. Are there other depts and/or	○ Yes ☉ No
pgms that could be affected by the proposed change?*	
If YES, identify the depts. and/or pgms:	
b. Will modifying	Yes • No
this course result in a new requirement for ANY program?*	
If YES, list the program(s) here:	
In order to change	a program, a program change form must also be submitted.
6. Information to be	Placed on Syllabus.
a.	$rac{3}{2}$ Check box if changed to 400G or 500.
	or 500 level operations where the set is a suitable and use much include the
differentiation betw assignments by the	or 500-level course you must send in a syllabus and you must include the een undergraduate and graduate students by: (i) requiring additional graduate students; and/or (ii) establishing different grading criteria in the e students. (See SR 3.1.4.)

This form must accompany <u>every</u> submission of a new/change course form that requests a change in delivery mode. All fields are required!

Introduction/Definition: For the purposes of the Commission on Colleges Southern Association of Colleges and Schools accreditation review, *distance learning* is defined as a formal educational process in which the majority of the instruction (interaction between students and instructors and among students) in a course occurs when students and instructors are not in the same place. Instruction may be synchronous or asynchronous. A distance learning (DL) course may employ correspondence study, or audio, video, or computer technologies.

A number of specific requirements are listed for DL courses. The *department* proposing the change in delivery method is responsible for ensuring that the requirements below are satisfied at the individual course level. It is the responsibility of the instructor to have read and understood the university-level assurances regarding an equivalent experience for students utilizing DL (available at <u>http://www.uky.edu/USC/New/forms.htm</u>).

Instructor Name:	Issam E. Harik	Instructor Email:	Harik@uky.edu
Delow that best	Interactive Video		
Curriculum and In	nstruction		
course provide for timely and		mittals. Students will int sions. The course syllabu	eract asynchronously at
ensure that the experience for DL		ment. They will complet	e the same homework
integrity of		work via Canvas, which	is password protected.
4. Are you adding distance learning delivery to this course as part of an effort to offer a complete degree program 100% online?			
	The students taking this cou do not require access to the		gineering students. They
students taking the course via DL			
ibrary and Learn	ing Resources		
6. How do course	No learning resources are ne	eded outside those prov	ided by the instructor.

	The course quizzes, homework assignments, and exams will ensure that the students make appropriate use of the learning resources.
	No such resources are required. All required course material (lecture notes, relevant documents, etc.) will be provided free of charge by the instructor through Canvas.
tudent Services	
students informed of procedures for resolving technical complaint? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of	and UK IT support information is avail able in Canvas. Students will be advised to call Canvas help hotline or live chat (available 24 hours/day) for issues related to course accessibility.
the course, such as the Canvas Support Hotline/Chat or ITS Service Desk?	
	tline/Chat (<u>https://uk.instructure.com/;</u> Click Help Button for 24/7 service) logy Services (ITS) Service Desk (<u>http://www.uky/edu/UKIT/Help/</u>)
9. Will the course be delivered via services available through Teaching and Academic	
Support Center?	
If no, explain how students enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.	
10. Does the syllabus contain all the required components, below?	✓ Yes
Technologica Procedure fo Preferred me Maximum tin Contact infor Web: <u>I</u> Phone Web Addres	virtual office hours, if any. al requirements for the course. r resolving technical complaints. thods for reaching instructor, e.g. email, phone, or text message. neframe for responding to student communications. rmation for Information Technology Customer Service Center: <u>http://www.uky.edu/UKIT/</u> : 859-218-HELP s for Distance Learning services: <u>http://www.uky.edu/ukonline/</u> rtaining academic accommodations (below):
"If yo accom sched proce <u>http:/</u>	u have a documented disability that requires academic unodations, please see me as soon as possible during uled office hours. Please initiate the accommodation ss by submitting an online Intake Form (found at /www.uky.edu/DisabilityResourceCenter/content/apply- wes) or by contacting the Disability Resource Center (DRC).
The D stude: accon Accon by du accon corne Scient	RC coordinates campus disability services available to nts with disabilities. DRC staff will discuss possible unodations with you and provide you with a Letter of unodation. Once you receive your Letter of unodation, please set up an appointment to see me or stop ring scheduled office hours to discuss how your unodation will be addressed. The DRC is located on the r of Rose Street and Huguelet Drive in the Multidisciplinary ce Building, Suite 407. You can reach them via phone at
is <u>htt</u>	257-2754 and via email at <u>drc@uky.edu</u> . Their web address <u>:://www.uky.edu/StudentAffairs</u> bilityResourceCenter/.

	formation on Distance Learning Library services
	Carla Cantagallo, DL librarian
	Phone: (859) 218-1240
	Email: <u>carla@.uky.edu</u>
	Web: http://libraries.uky.edu/DLLS
	DL Interlibrary Loan Service: http://libraries.uky.edu/dlls
11. I, the regarding	instructor of record, have read and understood all of the university-level statements g DL.
Instruc	tor Name Issam E. Harik
Administ	tration Use Only

UNIVERSITY OF KENTUCKY DEPARTMENT OF CIVIL ENGINEERING - COLLEGE OF NURSING Summer 2020 CE 687: Advanced Steel Design

A DISTANCE LEARNING COURSE

CREDIT HOURS: 3 credit hours

PREREQUISITES: CE 587 and registered in the College of Engineering, or consent of instructor.

COURSE DESCRIPTION: Strength of structural steel columns, including asymmetry and slender compression elements. Flexural strength of slender plate girders. Shear strength with and without post-buckling strength. Frame stability. Steel connections. Floor vibration serviceability.

STUDENT LEARNING OUTCOMES:

- 1. Analyze and design steel compression members.
- 2. Analyze and design steel plate girders.
- 3. Evaluate steel-framed floors for vibrations due to human activities.
- 4. Analyze and design bracing connections.
- 5. Analyze and design shear connections.
- 6. Analyze and design moment connections.
- 7. Analyze and design moment-resisting base plates.
- 8. Evaluate frame stability by the Direct Analysis Method.

COURSE GOALS OR OBJECTIVES: Round-out the technical background of the students in the design of structural steel frames, members, and connections.

COURSE FACULTY:Brad DAVIS, Ph.D.Phone:859-257-4916Email:dbraddavis@uky.edu (preferred contact)Virtual office hours:By appointment

REQUIRED TEXT:

1. AISC (2017), *Steel Construction Manual*, 15th ed., American Institute of Steel Construction, Chicago, IL.

- 2. Murray, T.M., Allen, D.E., Ungar, E.E., and Davis, D.B. (2016), *Vibrations of Steel-Framed Structural Systems Due to Human Activity*, Design Guide 11, American Institute of Steel Construction, Chicago, IL. (free pdf download)
- 3. Carter, C. (1999), *Stiffening of Wide-Flange Columns*, Design Guide 13, American Institute of Steel Construction, Chicago, IL. (free pdf download)
- Fisher, J.M. and Kloiber, L.A. (2006), *Base Plate and Anchor Rod Design*, Design Guide 1, 2nd edition, 2nd printing, American Institute of Steel Construction, Chicago, IL. (free pdf download)
- 5. Griffis, L.G. and White, D.W. (2013), *Stability Design of Steel Buildings*, Design Guide 28, American Institute of Steel Construction, Chicago, IL. (free pdf download)

REFERENCES: AISC Manual; Specification; and Design Guides 1, 11, 13, and 28.

CLASS MEETING TIMES: This course will use an on line learning format. The course will be taught via a web-enhanced format and alternative and experiential learning assignments. **Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.**

COURSE CONTENT: Course content will be divided into eight modules corresponding to the learning outcomes. Each module will be focused on each week. Each week students will be assigned reading assignments and activities related to module content.

COURSE ASSIGNMENTS:

Homework: There will be 8-sets of homework during the semester.

SUBMISSION OF ASSIGNMENTS:

- Homework must be submitted on Canvas by mid night on the due date.
- In cases of emergency which will prevent completion by the due date/time, please contact the faculty to request an extension PRIOR to the deadline, if possible.
- Assignments must be submitted on Canvas in pdf format.
- Each homework set must be submitted in a single pdf file that is legible after being scanned. It is recommended to use a dark pen or a pencil on white or Engineering paper.
- Homework and report assignments are due by midnight on the due date. Assignments turned in late, but within 24 hours following the due date and time, will be penalized by 20%. Assignments turned in after the 24-hour late window will not be graded.

QUIZES:

- A quiz is assigned for each course module. Students should only click the link to the quiz after viewing each video.
- Quizzes are limited to 30 minutes. DO NOT click the link until you are ready to take the quiz.
- Quizzes must be submitted on Canvas before each Wednesday by midnight.
- The Quizzes will count 10% of the total course grade.

TERM EXAMS:

- 1- Exam 1: Exam 1 is based on the material covered in modules 1, 2, and 3 for learning outcomes 1, 2 and 3.
- **2- Exam 2:** Exam 2 is based on the material covered in modules 4,5, and 6 for learning outcomes 4, 5 and 6.

FINAL EXAM: The final exam will be comprehensive.

NOTES FOR EXAMS:

- A photo ID is required for the exams.
- The mid-term exam and final exam are proctored exams and will be administered on the University of Kentucky campus. However, arrangements can be made to use various proctoring centers. In most instances, a proctoring fee will be incurred. It is the student's responsibility to notify the instructor within the first week of class and provide contact information for the off-campus proctoring service he or she intends to use.
- The exams are closed books and notes. Equations and other notes will be provided.
- The calculator must be on the list approved for the FE by the NCEES (e.g., HP 33s and HP 35s models, all FX-115 models, all TI-30X and TI-36X models).
- Use of a cell phone and any other electronic devices is not allowed.

NOTES FOR MAKEUP WORK OR EXAMS: Makeup work or exams will only be given with valid excuse. Refer to the "<u>EXCUSED ABSENCES</u>" section for details.

EVALUATION: Evaluation will be based on student achievement of the objectives and student learning outcomes as demonstrated by performance involving the course assignments and exams:

Assignments/Exam	Overall Weight
Homework	10%
Quizes	10%
Exam 1	25%
Exam 2	25%
Final Exam	30%

COURSE GRADING: 90 - 100% = A

$$80 - 89\% = B$$

70 - 79% = C
$$60 - 69\% = D$$

$$< 59\% = E$$

DISTANCE LEARNING INFORMATION

TEACHING/LEARNING METHODS

This course will be taught using a combination of methods. Students must be self-directed and demonstrate initiative to be successful in an online course. Course faculty are available for support and feedback. The course content/lectures and assignments will be available on Canvas. Students will utilize the internet to perform literature searches, participate in discussions, use email and connect with faculty and classmates through virtual technology in Canvas. Computer technology will enhance the learning process by allowing collaboration with peers and faculty. The course is interactive and participation will be required. All students are required to meet the computer and technology requirements listed below.

COMPUTER ACCESS EXPECTATIONS

Students must meet assignment deadlines, but are not required to be online at specific, assigned times. This is an interactive course and we highly recommend accessing the course in Canvas at least three times per week to be fully engaged and successful. If for some reason, you cannot access the site at home due to temporary computer breakdown or other circumstances, it is your responsibility to access the site through other means (e.g., going to local public or school library). This course is heavy in reading and writing/communications requirements; plan time for interactions and completion of assignments. Technical support is available at: UK Information Technology Center http://www.uky.edu/UKAT/ See the Tech Tips Link

EMAIL REQUIREMENTS

Students are required to use their university email account to send and receive email. Only emails sent through the UK email system will be opened by faculty. Due to the risk of computer viruses, no unauthorized email accounts will be opened by faculty.

Any email sent to notify faculty of an impending absence from class or clinical, should include a "Request a Delivery Receipt" or "Request a Read Receipt" before hitting the send button. This feature is located in the "options" tab. *Please check your UK email at least every 48 hours*.

WHAT DOES ONLINE LEARNING MEAN?

This means that the course materials will be available to you on the web and that you will turn assignments in on the web. This does not mean, however, that the course is not interactive. For example, you may participate in on-line discussions with other class members and faculty as needed using virtual meeting technology available through Canvas. Because no technology is ever completely fail-safe, we ask that students maintain back-up copies of all coursework.

COMPUTER REQUIREMENTS

This web-enhanced course requires the following: (1) a computer with high speed access to the internet (Ethernet, broadband cable or DSL connection) and an internet browser.

MINIMUM REQUIRED LAPTOP COMPUTER HARDWARE

- Processor: Dual Core 1.8 Ghz or higher
- RAM: 4 GB minimum (more preferred)
- Hard Drive: 250 GB or larger preferred (minimum 100 GB or larger)
- Wireless card: 802.11n preferred (minimum 802.11 b/g compatible)
- Operating system: Most recent version for your hardware (for example, Mac 0S 10.10+ or Windows 8+)
- Up-to-date virus software, preferably installed before coming to campus
- Webcam (many laptops come with an integrated webcam and will not require an external device)
- Headphones or headset with microphone
- *Other helpful options:* 2 GB or higher USB Flash Drive, external hard drive (for data backup/extra storage), wired or wireless external mouse, video out adapters (dvi/hdmi), and a laptop security cable

MINIMUM REQUIRED TABLET COMPUTER HARDWARE

- Processor: Dual Core 1.3 Ghz or higher | Apple A5 or higher
- Storage capacity: 32 GB or larger
- Operating system: Most recent version for your hardware (for example, Windows 8.1, Windows RT, iOS 8)

Because tablets have less storage than laptops, tablet users with high-speed Internet connectivity can use UK's virtual desktop and application solution (www.uky.edu/VirtualDEN) to expand the number of applications available to them. See further below in this document about the software this service provides. Also, many tablets have HDMI or USB ports for connecting external monitors, keyboards, mouse, headset, and other devices.

SOFTWARE

Visit https://download.uky.edu/ to learn about software available free of charge or at a reduced rate. If you do not have Microsoft Office 2007 or later then please download Microsoft Office 2007, which is available free to all university students from

 $\label{eq:http://e5.onthehub.com/WebStore/Welcome.aspx?ws=f43536c5-bbb4-dd11-b00d-0030485a6b08\&vsro=8\&JSEnabled=1$

Contact the University of Kentucky Instructional Technology Customer Service Center (257-1300) for download instructions.

It is important to have a basic understanding of how to use the World Wide Web (web) as well as Microsoft Office products (Word, PowerPoint, Excel, and Exchange). If you need assistance, help is available in The Hub, located in the basement of W.T. Young Library. For more information, visit http://www.uky.edu/Libraries/hub. In addition, students should be able to use the internet to access the Medical Center and other UK Libraries, search library data bases, and obtain literature necessary for class work and assignments.

STUDENT SUPPORT

If you have problems with Canvas: Following are the resources available to help you if you are having problems or technical challenges/conflicts when using Canvas. There is 24/7 support through the help tab inside Canvas. If the problems you are having affects completion or submission of an assignment, please email the instructor explaining the problem and the steps you are taking/have taken to correct the problem.

CANVAS SUPPORT

- Please use the Canvas help hotline 844-480-0838 for issues with Canvas or the HELP menu in the Canvas application.
- There are TUTORIALS in Canvas that may be helpful in resolving some issues.
- Canvas Issues: The help button provides links to guides and videos, the hotline number and a link to live chat. Live chat has been particularly helpful to us and they can help a student while they are having the issue.

SUPPORT FROM UKAT

UKAT's Academic Technology Group (ATG) offers online tutorials and face-to-face training, as well as technicians who specialize in troubleshooting issues that arise for students.

- UKIT technicians can be reached by calling 859-218-HELP (4357), where the Customer Service Center can troubleshoot many issues immediately. You can also email 218help@uky.edu. Complicated issues will be escalated to the technicians in ATG.
- Web: http://www.uky.edu/UKAT/

If you need one-on-one assistance, ATG can meet with you to discuss your needs and walk you through the steps. Call 257-8195 to request one-on-one time with one of our staff or student team.

DISTANCE LEARNING PROGRAMS: http://www.uky.edu/ukonline/

OTHER UK TECHNOLOGY SUPPORT SERVICES

Need help with recording your video assignments or uploading them to Canvas? The Media Depot is a student digital media space located in the Hub at William T. Young Library. The Media Depot provides; access to recording equipment and space, editing stations with specialized multimedia software, and technical support for students' development of their academic media projects.

http://www.uky.edu/ukat/mediadepot Phone Number: (859) 323-1105

INSTRUCTOR COMMUNICATIONS

Instructors have agreed to try to maintain the following communication standards:

- Faculty will check email at least daily Monday-Friday and respond as soon as possible but within 2 business days.
- If students have several questions about something or are confused, then they should call their faculty member. If the faculty member is not available, then a voicemail message should be left.
- There is a discussion board set up in Canvas where you may post questions and view answers to other students' questions. Faculty will check this board frequently.

LIBRARY RESOURCES

Distance Learning Library Services Web: http://libraries.uky.edu/DLLS Carla Cantagallo, DL Librarian Phone: 859 257-0500, ext. 2171 Long distance phone number (800) 828-0439 (option #6) Email: carla@.uky.edu DL Interlibrary Loan Service: http://libraries.uky.edu/page.php?lweb_id=253

COURSE EVALUATION

The University policy on faculty performance review requires that faculty obtain student evaluations of teaching for every course every semester. To meet this requirement, the College of Nursing uses web-based surveys on a confidential site for faculty and course evaluation. All students enrolled in this course are required to access the CoursEval website to fill out evaluations or to decline the opportunity within the designated time frame. Students should take this opportunity to provide serious input regarding faculty performance and course evaluation. These evaluations are used by the College of Nursing to improve the curriculum and enhance faculty teaching. Evaluations are completely anonymous. The information is compiled and shared with individual faculty members and appropriate administrators only after final grades are submitted. **To receive announcements about the evaluations, students must activate and use their UK email addresses. Forwarding UK email to an alternate address is <u>not</u> a viable option.**

COURSE POLICIES AND PROFESSIONAL STANDARDS ATTENDANCE:

EXCUSED ABSENCES

Students need to notify the professor of absences prior to class if possible. *Senate Rules 5.2.4.2* defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, (e) full-time job, (f) graduate school interview for graduating students, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Two weeks prior to the absence is reasonable, but should not be given any later. Information regarding major religious holidays may be obtained through the Ombud (859-257-3737,

http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php.

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused) per University policy.

MAKE-UP ASSIGNMENTS

Per *Senate Rule 5.2.4.2*, students missing any graded work due to an excused absence are responsible: for informing the Instructor of Record about their excused absence within one week following the period of the excused absence (except where prior notification is required); and for making up the missed work. The professor must give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred.

VERIFICATION OF ABSENCES

Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness, or death in the family. Appropriate notification of absences due to University-related trips is required prior to the absence when feasible and in no case more than one week after the absence. beginning the practicum.

ACADEMIC INTEGRITY

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <u>http://www.uky.edu/Ombud.</u> A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of Student Rights and Responsibilities (available online

<u>http://www.uky.edu/StudentAffairs/Code/part2.html</u>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.

ACCOMODATIONS DUE TO DISABILITY

"If you have a documented disability that requires academic accommodations, please see me as soon as possible during virtual office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. It is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at <u>drc@uky.edu</u>. Their web address

is http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/.

CE - 687 - Advanced Steel Design

Major Course Change Form

Course Change

Turn on help text

To ensure that your course change proposal is launched correctly, please follow the steps below. Course change proposals that are not launched properly will be returned to the originator who will be asked to resubmit the proposal following the steps below.

CLICK HERE FOR COMPLETE INSTRUCTIONS ON CREATING A COURSE CHANGE PROPOSAL.

Turn on help text.

Click the import icon to import data from SAP. **THIS IS REQUIRED FOR ALL COURSE CHANGE PROPOSALS. DO NOT** change data that was imported from SAP.

Make sure all required fields have been completed. These fields are denoted with an (*). **DO NOT** change data that was imported from SAP.

Launch the proposal by clicking the launch icon.

The proposal will return to the originators inbox under the 'My Tasks' tab.

At this time, you may make the proposed changes to the course change proposal. Once you have made all of the changes click the launch button. *Please note, once you click the launch button on this step the proposal will move onto the next approval step in the workflow..*

* denotes required fields

Current Prefix:* CE	Current 687 Number:*
Proposed Prefix	Proposed Number
Check if same as Same as current	
Is this course Yes clinical? Also select "Yes" if the No course is not clinical but you wish for the course to be	

reviewd by the HCCC*

1. General Information

a. Submitted by the College of:*	College of Engineering (8H	000)
b. Department/ Division:*	Civil Engineering (8H300)	
c. Is there a change in "ownership" of the course?*	🔍 Yes 💿 No	
If YES, what college/ department will offer the course instead?		
e. Contact Person Name:*	Douglas B. Davis	
Email:*	dbraddavis@uky.edu	Phone:* 859-257-4916
f. Requested Effective Date:*	Semester Following Approva	al 💿 Specific Term
If specific term:		

Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

What is the It will be part of the Structural Engineering Certificate Program, so it needs to be available in an online format.

2. Designation and Description of Proposed Course.

a. Distance Learning(DL) Status:*	 N/A Already approved for DL*
	Please Add Please Drop
	*If already approved for DL, the Distance Learning Form must also be submitted unless the department affirms (by checking this box) that the proposed changes do not affect DL delivery.

The FULL title of the course needs to be written out in the first box and IF the title is more than 40 characters, THEN, the title needs to be shortened for the insertion on the transcript. The full title of the course is what is put in the bulletin and the second is what is inserted on the transcript.

b. Current Title:*	Advanced Steel Design
Proposed Title*	Advanced Steel Design
c. Transcript Title (if full title is more than 40 characters):	
d. Current Cross- listing:*	● N/A ○ Currently Cross-listed
Currently Cross- listed with (Prefix & Number):	
ADD Cross-listing (Prefix & Number):	
REMOVE Cross- listing (Prefix & Number):	

Using the Files tab in the Proposal Toolbox, attach a letter of support from the chair of the crosslisting department.

e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours for each meeting pattern type.

Generally, undergrad courses are developed such that one semester hr of credit represents 1 hr of classroom meeting per wk for a semester, exclusive of any lab meeting. Lab meeting generally represents at least two hrs per wk for a semester for 1 credit hour. (See SR 5.2.1.)

For courses with variable credit, please use the following format (no spaces): #-##

Lect	ure: 3 hr
Laborat	ory:
Clini	ical:
Colloqui	um:
Semi	nar:
Stu	ıdio:
Recitat	ion:

Residency:	
Discussion:	
Indep. Study:	
Practicum:	
Research:	
Other:	
f. Grading System:*	 Letter (A, B, C, etc.) Pass/Fail Medicine Numeric Grade Graduate Level Grade Scale
Please Explain:	
g. Number of credit hours:*	3
h. Is this course repeatable for additional credit? *	O Yes O No
If YES, Maximum number of credit hours:	
If YES, Will this course allow multiple registrations during the same semester?	○ Yes ○ No
i. Course Description for Bulletin:*	Strength of structural steel columns, including asymmetry and slender compression elements. Flexural strength of slender plate girders. Shear strength with and without post-buckling strength. Frame stability. Steel connections. Floor vibration serviceability.
j. Prerequisites, if any:	CE 587 and registered in the College of Engineering, or consent of instructor.
3. Is this course tau	ght off campus?
a.*	🔍 Yes 💿 No
If YES, enter the off campus address:	

4. Are significant changes in content/ student learning outcomes of the course being proposed?

a.*	🔘 Yes 💿 No
If YES, explain and offer brief rationale:	
5. Course Relations	hip to Program(s).
a. Are there other depts and/or pgms that could be affected by the proposed change? *	◯ Yes [®] No
If YES, identify the depts. and/or pgms:	
b. Will modifying this course result in a new requirement for ANY program?*	◯ Yes ⊙ No
If YES, list the program(s) here:	

In order to change a program, a program change form must also be submitted.

6. Information to be Placed on Syllabus.

a. Check box if changed to 400G or 500.

If <u>changed</u> to 400G- or 500-level course you must send in a syllabus and you must include the differentiation between undergraduate and graduate students by: (i) requiring additional assignments by the graduate students; and/or (ii) establishing different grading criteria in the course for graduate students. (See SR 3.1.4.)

Distance Learning Form

This form must accompany <u>every</u> submission of a new/change course form that requests a change in delivery mode. All fields are required!

Introduction/Definition: For the purposes of the Commission on Colleges Southern Association of Colleges and Schools accreditation review, *distance learning* is defined as a formal educational process in which the majority of the instruction (interaction between students and instructors and among students) in a course occurs when students and instructors are not in the same place. Instruction may be synchronous or asynchronous. A distance learning (DL) course may employ correspondence study, or audio, video, or computer technologies.

A number of specific requirements are listed for DL courses. **The** *department* **proposing the change in delivery method is responsible for ensuring that the requirements below are satisfied at the individual course level.** It is the responsibility of the instructor to have read and understood the university-level assurances regarding an equivalent experience for students utilizing DL (available at <u>http://www.uky.edu/USC/New/forms.htm</u>).

Instructor Name:	D.B. Davis	Instructor Email:	dbraddavis@uky.edu
reflects how the majority of the course content will be delivered.			

Curriculum and Instruction

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?	Students and faculty will asynchronously engage at least weekly during online discussions, emails, and submittals. Students will interact asynchronously at least weekly in online discussions. The course syllabus conforms to University Guidelines for distance learning.
2. How do you ensure that the experience for DL student is comparable to that of a classroom-based student's experience? Aspects to explore:textbooks, course goals, assessment of student learning outcomes, etc.	Students will view the same lectures as they would view if they were in a traditional classroom environment. They will complete the same homework and exams. They will be able to ask the instructor for help using Canvas, email, or phone.
3. How is the	Students are allowed to work together on homework assignments, although

3. How is the integrity of student work ensured? Please speak to aspects such as passwordprotected course

3. How is the integrity of students are allowed to work together on homework assignments, although each must submit individual work via Canvas, which is password protected.
 Exams will be proctored on campus or at testing centers.

Yes No
Students have access to the instructor through Canvas, email, or phone calls, so they can ask questions. They will also have access to the UK libraries and Distance Librarian liason, Carla Cantagallo. Virtual office hours will also be provided for students to interact with the instructor as needed.

requirements	No learning resources are needed outside those provided by the instructor. The course quizzes, homework assignments, and exams will ensure that the students make appropriate use of the learning resources.
	No such resources are required. All required materials (lecture notes, relevant documents, etc.) will be provided by the instructor through Canvas.

Student Services

 8. How are students informed of procedures for resolving technical complaint? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Canvas Support Students will contact the instructor if they have difficulties. Also, the syllabus provides contact information for Distance Learning Library Services. Canvater and UK IT support information is available in Canvas. Students will be advised to call Canvas help hotline or live chat (available 24 hours/day) for the syllabus list of the course, such as the Canvas Support 	vas
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Hotline/Chat or ITS Service Desk?

Canvas Support Hotline/Chat (<u>https://uk.instructure.com/;</u> Click Help Button for 24/7 service)

Information Technology Services (ITS) Service Desk (http://www.uky/edu/UKIT/Help/)

9. Will the course be delivered via services available through Teaching and Academic Support Center?		
If no, explain how students enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.		
10. Does the syllabus contain all the required components, below?	☑ _{Yes}	

Instructor's **virtual** office hours, if any. Technological requirements for the course. Procedure for resolving technical complaints. Preferred methods for reaching instructor, e.g. email, phone, or text message. Maximum timeframe for responding to student communications. Contact information for Information Technology Customer Service Center:

Web: <u>http://www.uky.edu/UKIT/</u> Phone: 859-218-HELP

Web Address for Distance Learning services: <u>http://www.uky.edu/ukonline/</u> Language pertaining academic accommodations (below):

"If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. Please initiate the accommodation process by submitting an online Intake Form (found at <u>http://www.uky.edu/DisabilityResourceCenter/content/apply-</u> <u>services</u>) or by contacting the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. DRC staff will discuss possible accommodations with you and provide you with a Letter of Accommodation. Once you receive your Letter of Accommodation, please set up an appointment to see me or stop

by during scheduled office hours to discuss how your accommodation will be addressed. The DRC is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at <u>drc@uky.edu</u>. Their web address is <u>http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/</u>.

Information on Distance Learning Library services

Carla Cantagallo, DL librarian Phone: (859) 218-1240 Email: <u>carla@.uky.edu</u> Web: <u>http://libraries.uky.edu/DLLS</u> DL Interlibrary Loan Service: <u>http://libraries.uky.edu/dlls</u>

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name Douglas B. Davis

Administration Use Only

OBJID