PLEASE NOTE: To ensure that a series of changes to an existing degree program does not essentially create a new program, the Southern Association for the Accreditation of Colleges and Schools (SACS) requires submission of its Substantive Change Checklist for every program change. Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. Contact Institutional Effectiveness (OSPIE@uky.edu) for assistance.

Once approved at the college level, your college will send the proposal to the appropriate Senate academic council (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 and then a 10-day posting online, during which senators review on their own and have an option to register an objection if they so desire. If no objection is raised to the Senate Council Office within ten days of the posting the proposal, then the program change is approved. The Senate Council Office will report approvals to the Provost, Registrar and other appropriate entities, including the contact person.

For every proposed change, you MUST also include the existing requirement.

				SUMMARY Check all					og er same
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	/					W- 2-1-15/00	1	NAME OF THE OWNER OWNER OF THE OWNER OWNE	2
1b	College <sup>2</sup> :	Engineer	ng		Depart	ment <sup>2</sup> :	Civil Engl	Ineering	
1c	CIP code <sup>3</sup> :	14	.081		To	oday's Da	ite:		
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1g	Accrediting	g agency, if	applicab	e: Accreditation 6	loard for	Enginee	ering and T	echnology (ABI	ET, Inc)
1h	Date of mo	ost recent p	eriodic p	rogram review for th	is degre	e: Oct	ober 2016		
1i	Requested	effective of	late:	Fall semester follo	wing ap	proval.	OR	Specific Da	ate <sup>4</sup> : Fall 20

<sup>&</sup>lt;sup>1</sup> Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. You can reach Institutional Effectiveness by phone or email (257-1962 or OSPIE@uky.edu).

<sup>&</sup>lt;sup>2</sup> It is not possible to change the home academic unit of a degree program via this form. To change the home unit, visit <a href="https://www.uky.edu/universitysenate/forms">https://www.uky.edu/universitysenate/forms</a> and look for the heading, "Forms Related to Academic Organizational Structure."

The CIP code is provided by Institutional Effectiveness. If a different CIP code is necessary, the program may undergo a review similar to the new program approval process.

<sup>&</sup>lt;sup>4</sup> No program change(s) will be effective until all approvals are received.

1j | Contact person name: Scott Yost | Phone / Email: | scott.yost@uky.edu | 7-4816

#### 2. Overview of Changes

Describe the rationale for the changes, including results from the most recent program review if applicable. (450 word limit)

There are two changes that are part of this proposal: adding STA 296 as an option under Major Requirements and eliminating the 382 >> 482/486 sequence to one class, 482 (major course change will be submitted with this). Adding STA 296 allows students more flexibility in scheduling courses as it is offered every semester with multiple sections. STA 296 requires less Calculus so it can be taken earlier in a student's academic career, if necessary. Both STA 296 and 381 meet UK Core and taught in "group learning format".

The following are the reasons for eliminating CE 382 and only requiring CE 482 for a BS in CE.

- Elimination of CE 382 reduces redundancy in the undergraduate curriculum. The students have already had the first half of CE 382 in previous coursework.
- The second half of CE 382 is fairly specialized and probably not useful for non-structural CEs. This material will be moved to elective courses.
- The consolidated coverage of loads, steel, concrete, and wood will be useful for all CE students, thus providing education equity in the required courses.
- The steel and concrete coverage in CE 482 will provide prerequisite material for 500-level electives in steel and concrete, which may be taken by undergraduate or graduate students.

	44		Current	Proposed	
i,	Credit Hours of Premajor Courses:		45	45	
ji.	Credit Hours of Preprofessional Courses:		N/A	N/A	
iii.	Credit Hours of Major Core Course Requiren	nents	50	50	
iv.	Minimum Credit Hours of Guided Electives:		18	21	
v.	Minimum Credit Hours of Free Electives:		0	0	
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viii.	Credit Hours for Track 3 (name):			21/40/2007/00/00/00/00/00/00/00/00/00/00/00/00/	
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		400-level:	24	24	
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. A. Pylmp	TOTAL CREDIT HOURS REQUIRED FO	R GRADUATION:	128	<u>128</u>	
XV.	If the total hours required for graduation have changed, explain below. (150 word limit)				

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III. C	Quantitative Reasoning									
	Quantitative Foundations						1			

<sup>&</sup>lt;sup>5</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school. <sup>6</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

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<sup>&</sup>lt;sup>7</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there are no departments/schools.

<sup>&</sup>lt;sup>8</sup> 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").

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<sup>&</sup>lt;sup>9</sup> Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

<sup>&</sup>lt;sup>10</sup> Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

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	Undergraduate Council	9/18/18	Joanie Ett-Mims

## Brandenburg, Barbara

From:

Pearson, RaeAnne

Sent:

Friday, March 30, 2018 1:17 PM

To:

Brandenburg, Barbara J

Subject:

RE: Civil curriculum changes

#### Dear BJ Brandenburg,

Thank you for your email regarding the proposed program change(s) to Civil Engineering ().

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 proposal documentation presented and Substantive Change Checklist, the proposed program changes (refer to list below) are not substantive changes 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.

#### List of Proposed Change(s):

- Adding STA 296 as an option in Major requirements.
- Eliminating CE 382 and requiring CE 482

Should you have questions or concerns about UK's substantive change policy and its procedures, please do not hesitate contacting me.

#### RaeAnne Pearson, PhD

Office of Strategic Planning & Institutional Effectiveness

University of Kentucky Phone: 859-218-4009 Fax: 859-323-8688

Visit the Institutional Effectiveness Website: http://www.uky.edu/ie



From: Brandenburg, Barbara J

Sent: Friday, March 30, 2018 1:03 PM

To: Pearson, RaeAnne

Subject: Civil curriculum changes

RaeAnne,

Attached is a Civil Engineering program change. I don't know if you need all the attachments, but I thought more information was better than less.

Thanks,

BJ

BJ Brandenburg College of Engineering Director of Student Records 355-S F. Paul Anderson Tower University of Kentucky Lexington, KY 40506-0046 Tel: (859) 257-7978

Fax: (859) 257-5727

From: Wampler, Suzy

Sent: Monday, January 08, 2018 11:25 AM

To: Brandenburg, Barbara J <br/>
<a href="mailto:barbara.brandenburg@uky.edu">barbara.brandenburg@uky.edu</a>

Subject: CE 482/curriculum changes

Let me know when I should submit the 482 major change form on Curriculog and/or if I need to make any changes. Have fun!!  $\odot$ 

Thanks!

# Suzy Wampler

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March 30, 2018

#### To Whom It May Concern:

The College of Engineering faculty reviewed the program change for Civil Engineering via email. There were no concerns or objections raised. The College of Engineering approved the program change on February 16, 2018.

Sincerely,

Kimberly Anderson, Ph.D.

Associate Dean for Administration and Academic Affairs

## CIVIL ENGINEERING UNDERGRADUATE PROGRAM Current

#### **FRESHMAN YEAR**

Cradit

Cradit

	Credit		Credit
First Semester	Hours	Second Semester	Hours
UKCore: A&C (EGR 101 - Engineering	g Expolation  ) 1	UKCore: A&C (EGR 103 - Engineering Expolation II)	2
EGR 102 - Fund Eng Computing	2	UKCore: C&C (CIS\WRD 111 - Comp and Comm II)	3
UKCore: C&C (CIS\WRD 110 - Comp	and Comm i) 3	MA 114 - Calculus II	4
UKCore: QR QF(MA 113 - Calculus I)	. 4	UKCore: Physical (PHY 231 - Gen Univ Physics)	4
CHE 105 - Gen Coll Chem I	4	UKCore: Physical (PHY 241 - Gen Univ Physics Lab)	1
		UKCore: Social Science	3
Semester Hours	14	Semester Hours	17
	SOPHOM	ORE YEAR	
	Credit		Credit
First Semester	Hours	Second Semester	Hours
CE 211 - Surveying	4	EM 302 - Mech of Deform Solids	3
CHE 107 - Gen Coll Chem II	3	MNG 303 - Deformable Solids Lab	1
EM 221 - Statics	3	MA 214 - Calculus IV	3
MA 213 - Calculus III	4	PHY 232 - Gen Univ Physics	4
CE 106 - Computer Graphics/Comm	3	PHY 242 - Gen Univ Physics Lab	1
		UKCore: QR SIR (STA 381- Intro Engg Statistics)	3
Semester Hours	17	Semester Hours	15
	JUNIO	R YEAR	
	Credit		Credit
First Semester	Hours	Second Semester	Hours
WRD 204 - Technical Writing*	3	CE 331 - Transportation Engrg	3
EES 220 - Physical Geology	4	CE 351 - Intro Envr Engrg	3
CE 303 - Intro to Constr Engrg	3	CE 382 - Structural Analysis	3
CE 341 - Fluid Mechanics	4	Engr Science Elective (1)	3
CE 381 - CE Materials**	3	Math or Science Elective (2)	3
		UKCore: Humanities	3
Semester Hours	17	Semester Hours	18
	SENIO	R YEAR	
	Credit		Credit
First Semester	Hours	Second Semester	Hours
CE 461G - Water Resources Engr	4	CE 401 - Seminar	1
CE 471G - Soil Mechanics	4	CE 429 - CE Systems Design	3
CE 48X - Structures Elective (3)	3	Design Elective (4)	3
Design Elective (4)	3	Technical Elective (5)	3
UKCore: Citizenship US	3	UKCore: Citizenship Global Dynamics	3
Semester Hours	17	Semester Hours	13
Т	OTAL SEMESTER HOU	IRS 128	
* CCCP course			

<sup>\*</sup> GCCR course

- (1) ME 220 Thermodynamics or EM 313 Dynamics
- (2) Math or Science Elective Options: MA 321, MA 322, MA 416G, MA 432G, BIO 208, CHE 230, CHE 236, EE 305, GEO 409G, GLY/EES 550, GLY/EES 585, MNG 551, or the other half of the Engineering Science Elective in (1). NOTE: MA 322 is required for a math minor.
- (3) CE 482 or CE 486G
- (4) Students are required to select two design electives from different areas. Chose from: CE 508, CE 531 or CE 533, CE 534, CE 549, CE 551, CE 579, CE 589. Design elective courses are typically taught once a year.
- (5) Technical Electives are to be chosen from any of the courses at the 300-level or above that carry a CE prefix and in which a student is qualified to enroll, exclusive of required courses. Engineering elective courses are typically taught once a year.
- (6) Supportive elective is to be chosen from any university course excluding more elementary versions of required courses such as precalculus mathematics or PHY 211. However, each CE area has at least one recommendation for the supportive elective. Please review the Optional Concentration section in the Civil Engineering Undergraduate Handbook. The supportive elective can be taken P/F.

# CIVIL ENGINEERING UNDERGRADUATE PROGRAM Proposed

#### **FRESHMAN YEAR**

Credit

Credit

First Competer	Lleure	Second Semester	Hours
First Semester	Hours	· · · · · · · · · · · · · · · · · · ·	
UKCore: A&C (EGR 101 - Engineering		UKCore: A&C (EGR 103 - Engineering Expolation II)	2
EGR 102 - Fund Eng Computing	2	UKCore: C&C (CIS\WRD 111 - Comp and Comm II)	3
UKCore: C&C (CIS\WRD 110 - Comp		MA 114 - Calculus II	4
UKCore: QR QF(MA 113 - Calculus I)	4	UKCore: Physical (PHY 231 - Gen Univ Physics)	<b>4</b> 1
CHE 105 - Gen Coll Chem I	4	UKCore: Physical (PHY 241 - Gen Univ Physics Lab) UKCore: Social Science	3
•	4.4		ء 17
Semester Hours	14	Semester Hours	17
	SOPHOMOR	E YEAR	
	Credit		Credit
First Semester	Hours	Second Semester	Hours
CE 106 - Computer Graphics/Comm	3	EM 302 - Mech of Deform Solids	3
CE 211 - Surveying	4	MNG 303 - Deformable Solids Lab	1
CHE 107 - Gen Coll Chem II	3	MA 214 - Calculus IV	3
EM 221 - Statics	3	PHY 232 - Gen Univ Physics	4
MA 213 - Calculus III	4	PHY 242 - Gen Univ Physics Lab	1
		UKCore: QR SIR Statistics Elective (1)	3
Semester Hours	17	Semester Hours	15
	JUNIOR Y	EAR	
	Credit		Credit
<u>First Semester</u>	Hours	Second Semester	Hours
WRD 204 - Technical Writing*	3	CE 331 - Transportation Engrg	3
EES 220 - Physical Geology	4	CE 351 - Intro Envr Engrg	3
CE 303 - Intro to Constr Engrg	3	CE 482 - Structural Analysis and Design	3
CE 341 - Fluid Mechanics	4	Engr Science Elective (2)	3
CE 381 - CE Materials	3	Math or Science Elective (3)	3
Semester Hours	17	Semester Hours	15
	SENIOR Y	'EAR	
	Credit		Credit
First Semester	Hours	Second Semester	Hours
CE 461G - Water Resources Engr	4	CE 401 - Seminar	1
CE 471G - Soil Mechanics	4	CE 429 - CE Systems Design	3
Design Elective (4)	3	Design Elective (4)	3
Technical Elective (5)**	3	Technical Elective (5)	3 3
UKCore: Citizenship US	3	UKCore: Humanities	3 3
- · · · · · · · · · · · · · · ·		UKCore: Citizenship Global Dynamics	3
Semester Hours	17	Semester Hours	16
TC	OTAL SEMESTER HOURS	128	

<sup>\*</sup> GCCR course

- (1) STA 296 Statistical Methods and Motivations or STA 381 Engineering Statistics A Conceptual Approach
- (2) ME 220 Thermodynamics or EM 313 Dynamics
- (3) Math or Science Elective Options: MA 321, MA 322, MA 416G, MA 432G, BIO 208, CHE 230, CHE 236, EE 305, GEO 409G, GLY/EES 550, GLY/EES 585, MNG 551, or the other half of the Engineering Science Elective in (1). NOTE: MA 322 is required for a math minor.
- (4) Students are required to select two design electives from different areas. Chose from: CE 508, CE 531 or CE 533, CE 534, CE 549, CE 551 or 599, CE 579, CE 589. Design elective courses are typically taught once a year.
- (5) Technical Electives are to be chosen from any of the courses at the 300-level or above that carry a CE prefix and in which a student is qualified to enroll, exclusive of required courses. Engineering elective courses are typically taught once a year.