

The SAASC convened on Friday, April 13, 2018 to consider a proposal from the College of Engineering, Department of Mining Engineering to change credit hours to 128.

Attendance: Dan Morey, David Hulse, Dan Howe, Kevin Donohue, Brad Kerns, Rebecca Kellum, Herman Farrell (Chair), Annie Davis Weber (ex-officio).

Procedure:

Herman Farrell acted as facilitators of the proposal.

Discussion:

Farrell noted that this proposal is similar to other proposals from the College of Engineering recently approved by the SAASC, SC and US involving a reduction in total credit hours for a specific engineering program in order to comply with a CPE mandate that the total credit hours not exceed 128. The supportive elective (3 credit hours) will no longer be required. This proposal also involves the replacement of ME 220 and ME 330 with CE 341. The committee confirmed that the replacement course had been approved through SAPC and that the other units involved in the change had provided sufficient documentation in support of the change.

Vote:

A motion was made and seconded that the SAASC approve the proposal from the College of Engineering, Department of Mining Engineering to change credit hours to 128.

The committee voted 7 in favor, 0 opposed.

**CHANGE UNDERGRADUATE DEGREE PROGRAM**

**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 ([institutionaleffectiveness@uky.edu](mailto:institutionaleffectiveness@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.

<b>SUMMARY OF CHANGES</b>						
Check all that apply.						
<input checked="" type="checkbox"/>	Courses	<input type="checkbox"/>	Program name	<input checked="" type="checkbox"/>	Total required credit hours	
<input type="checkbox"/>	Criteria for admissions/progression/termination	<input type="checkbox"/>	Certificate assessment	<input type="checkbox"/>	Student learning outcomes	
<input type="checkbox"/>	Other					
<b>1. General Information</b>						
1a	Date of contact with Institutional Effectiveness (IE) <sup>1</sup> :		11/1/17			
	<input type="checkbox"/> Appended to the end of this form is a PDF of the reply from Institutional Effectiveness.					
1b	College <sup>2</sup> :	Engineering	Department <sup>2</sup> :	Mining Engineering		
1c	CIP code <sup>3</sup> :	14.2101	Today's Date:	August 28, 2017		
1d	Current major name: (Biology, Design, etc.)	BS in Mining Engineering	Proposed major name:	Same		
1e	Current Degree (BA, BFA, etc.):	BSMIE	Proposed degree:	Same		
1f	Will there be any changes regarding a track(s) for the program?				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
1g	Accrediting agency, if applicable:	ABET, Inc.				
1h	Date of most recent periodic program review for this degree:		Oct 30-Nov 1, 2016			
1i	Requested effective date:	<input checked="" type="checkbox"/> Fall semester following approval.	OR	<input type="checkbox"/> Specific Date <sup>4</sup> : Fall 20		

<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 (257-2873 or [institutionaleffectiveness@uky.edu](mailto:institutionaleffectiveness@uky.edu)).

<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 <http://www.uky.edu/faculty/senate> and search for forms related to academic organizational structure.

<sup>3</sup> 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>4</sup> No program change(s) will be effective until all approvals are received.

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1j	Contact person name: Joe Sottile	Phone / Email: 257-4616 / joseph.sottile@uky.edu
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**2. Overview of Changes**

2a	<p>Describe the rationale for the changes, including results from the most recent program review if applicable. (450 word limit)</p> <p>1) Credit Hours: This proposal is to comply with the mandate from the Kentucky Council on Post-Secondary Education that requires all programs to have a maximum of 120 credit hours, with exceptions for some programs to have 128 credit hours. specifically, this proposal reduces the current number of credit hours in Mining Engineering from 135 credit hours to 128 credit hours.</p> <p>Attachments:</p> <ul style="list-style-type: none"> <li>- Table comparing current major requirements with proposed major requirements</li> <li>- Current semester-by-semester curriculum</li> <li>- Proposed semester-by-semester curriculum</li> <li>- SACSCOC SubChange Checklist</li> <li>- Reply from Institutional Effectiveness</li> </ul>
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2b	Use the fields below, as applicable, to identify the areas in which changes will be made.		
		Current	Proposed
i.	Credit Hours of Premajor Courses:	43	43
ii.	Credit Hours of Preprofessional Courses:	NA	NA
iii.	Credit Hours of Major Core Course Requirements	71	67
iv.	Minimum Credit Hours of Guided Electives:	6	6
v.	Minimum Credit Hours of Free Electives:	3	0
vi.	Credit Hours for Track 1 (name):		
vii.	Credit Hours for Track 2 (name):		
viii.	Credit Hours for Track 3 (name):		
ix.	Credit Hours for Track 4 (name):		
x.	Credit Hours for Track 5 (name):		
xi.	Credit Hours for Required Minor:		
xii.	Total Credit Hours Required by Level:	100-level:	23-24
		200-level:	34-35
		300-level:	36
		400-level:	7
		500-level:	14

	<b>TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:</b>	<u>135</u>	<u>128</u>
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xv.	<p>If the total hours required for graduation have changed, explain below. (150 word limit)</p> <p>This change is in response to the Kentucky Council on Post-Secondary Education mandate that requires all programs to have a maximum of 120 credit hours, with certain programs given an exception to up to 128 credit hours.</p>
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2c	Will the requested change(s) result in the use of courses from another educational	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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	unit?			
	If "Yes," describe generally the courses and how they will used.			
	CE 341 - Introduction to Fluid Mechanics will replace ME 220 - Engineering Thermodynamics I and ME 330 - Fluid Mechanics			
	If "Yes," two pieces of supporting documentation are required.			
	<input checked="" type="checkbox"/> Check to confirm that appended to the end of this form is a letter of support from the appropriate chair/director <sup>5</sup> of each unit from which individual courses will be used.			
	<input type="checkbox"/> Check to confirm that appended to the end of this form is verification that the chair/director of each affected unit has consent from the faculty members of the unit. This typically takes the form of meeting minutes.			
2d	Will the proposed change(s) affect an associated minor?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	If "Yes," the department must also submit a change form to change the minor.			
<b>3. Course Sharing</b>				
3a.	Will the requested changes result in the use of courses from another unit?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	If "Yes," describe generally the courses and how they will used.			
	CE 341 - Introduction to Fluid Mechanics will replace ME 220 - Engineering Thermodynamics I and ME 330 - Fluid Mechanics. The CE 341 syllabus indicates that there is sufficient coverage of thermodynamics and fluid mechanics to satisfy ABET requirements and also prepare students for MNG 341 - Mine Ventilation.			
	If "Yes," two pieces of supporting documentation are required.			
	<input checked="" type="checkbox"/> Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director <sup>6</sup> from which individual courses will be used.			
	<input type="checkbox"/> 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 meeting minutes.			
<b>3. UK Core Courses</b>				
3a	Are there any proposed changes to the UK Core requirements for the program? (If "Yes," indicate and proceed to next question. If "No," indicate and proceed to 4a.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	If "Yes," note the specific changes in the grid below.			
<b>UK Core Area</b>	<b>Current Course</b>	<b>Current Credits</b>	<b>Proposed Course</b>	<b>Proposed Credits</b>
<b>I. Intellectual Inquiry</b>				
	Arts and Creativity			
	Humanities			
	Social Sciences			
	Natural/Physical/Mathematical			
<b>II. Composition and Communication</b>				
	Composition and Communication I	CIS/WRD 110	3	CIS/WRD 110 3
	Composition and Communication II	CIS/WRD 111	3	CIS/WRD 111 3

<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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<b>III. Quantitative Reasoning</b>					
	Quantitative Foundations				
	Statistical Inferential Reasoning				
<b>IV. Citizenship (one course in each area)</b>					
	Community, Culture & Citizenship in USA				
	Global Dynamics				
<b>Total UK Core Hours</b>		=====	=====		

3b Provide the Bulletin language about UK Core.

**4. Graduation Composition and Communication Requirement**

4a Will the Graduation Composition and Communication requirement be changed? (If "Yes," indicate and proceed to next question. If "No," indicate and proceed to 5a.) Yes  No

If "Yes," note the specific changes below, including changes to credit hours.

If the course(s) used are from outside the home unit, one piece of supporting documentation is required.

Check to confirm that appended to the end of this form is a letter of support from the other units' chair/director<sup>7</sup> from which individual courses will be used.

	Current	Proposed
i.	<input type="checkbox"/> Single course in home unit:	<input type="checkbox"/> <i>Single course in home unit:</i>
ii.	<input type="checkbox"/> Multiple courses in home unit.	<input type="checkbox"/> <i>Multiple courses in home unit.</i>
iii.	<input type="checkbox"/> Single course outside home unit.	<input type="checkbox"/> <i>Single course outside home unit.</i>
iv.	<input type="checkbox"/> Multiple courses outside home unit.	<input type="checkbox"/> <i>Multiple courses outside home unit.</i>
v.	<input type="checkbox"/> Course(s) inside & outside home unit.	<input type="checkbox"/> <i>Course(s) inside &amp; outside home unit.</i>

4b Provide the Bulletin language about GCCR below.

**5. Other Course Changes**

5a Will the college-level requirements change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5c.) Yes  No

Current			Proposed			
<input type="checkbox"/> Standard college requirement			<input type="checkbox"/> <i>Standard college requirement</i>			
<input type="checkbox"/> Specific course			<input type="checkbox"/> <i>Specific course</i>			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>8</sup>
						Select one....
						Select one....

<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>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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						Select one....	
5b	Will the existing language in the Bulletin about college-level requirements change?					Yes <input type="checkbox"/>	No <input type="checkbox"/>
If "Yes," provide the new language below.							
5c	Will the pre-major or pre-professional course requirements change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5e.)					Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Current			Proposed				
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>9</sup>	
						Select one....	
						Select one....	
						Select one....	
						Select one....	
						Select one....	
5d	Provide the Bulletin language about pre-major or pre-professional courses below.						
5e	Will the major's core course requirements change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5g.)					Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If "Yes," note the specific changes in the grid below.							
Current			Proposed				
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>10</sup>	
ME 220	3	Engineering Thermodynamics I	NA	NA	Dropped	Select one....	
ME 330	3	Fluid Mechanics	NA	NA	Dropped	Select one....	
			CE 341	4	Introduction to Fluid Mechanics	No Change	
MNG 302	1	Minerals Processing Laboratory	NA	NA	Dropped	Select one....	
MNG 301	3	Minerals Processing	MNG 301	3	Minerals Processing	Change	
MNG 435	4	Mine Systems Engineering and Economics	MNG 435	3	Mine Systems Engineering and Economics	Change	
						Select one....	
						Select one....	
						Select one....	

<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>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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						Select one...
						Select one...
						Select one...
						Select one...
						Select one...
						Select one...

5f	Provide the Bulletin language for major core course requirements.
	<p>Major Requirements</p> <p>MA 214 Calculus IV (3)</p> <p>EES 230 Fundamentals of Geology I (3)</p> <p>EM 221 Statics (3)</p> <p>EM 302 Mechanics of Deformable Solids (3)</p> <p>EM 313 Dynamics (3)</p> <p>CE 341 Introduction to Fluid Mechanics (4)</p> <p>MNG 211 Mine Surveying (2)</p> <p>MNG 291 Elements of Mine Design (3)</p> <p>MNG 301 Minerals Processing (3)</p> <p>MNG 303 Deformable Solids Laboratory (1)</p> <p>MNG 311 Electrical Circuits and Mining Machinery (3)</p> <p>MNG 322 Mine Safety and Health Management (2)</p> <p>MNG 331 Explosives and Blasting (2)</p> <p>MNG 332 Mine Plant Machinery (3)</p> <p>MNG 335 Introduction to Mine Systems Analysis (3)</p> <p>MNG 341 Mine Ventilation (3)</p> <p>MNG 351 Underground Mine Design (3)</p> <p>MNG 371 Professional Development of Mining Engineers (3)</p> <p>MNG 435 Mine Systems Engineering and Economics (3)</p> <p>MNG 463 Surface Mine Design (3)</p> <p>BAE 535/NNG564 Environmental Control Systems Design and Reclamation (3)</p> <p>MNG 551 Rock Mechanics (4)</p> <p>MNG 591 Mine Design Project I (1)</p> <p>MNG 592 Mine Design Project II (3)</p> <p>Subtotal: Major hours (67)</p>

5g	Will the guided electives change? (If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5i.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Current			Proposed			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>11</sup>
						Select one...
						Select one...
						Select one...
						Select one...

<sup>11</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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						Select one....	
						Select one....	
5h	Provide the Bulletin language for guided electives.						
5i	Will the free electives change? (If "Yes," indicate and note the specific changes in the space below. If "No," indicate and proceed to question 5j.)					Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	The University Faculty Senate approved the change in the Free Elective requirement for graduation, making it optional rather than mandatory. There is still a requirement for some type of electives, and for the Mining Engineering program, this is fulfilled through UKCore and technical electives.						
5j	Does the proposed change affect any track(s)? (If "Yes," note the specific changes using the grid below. If "No," proceed to question 6.)					Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If more than one track is affected, click <a href="#">HERE</a> for a template. Append a PDF for each affected track to the end of this form.						
Track Name:			<input type="checkbox"/> New Track	<input type="checkbox"/> Changed Track	<input type="checkbox"/> Deleted Track		
Current			Proposed				
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>12</sup>	
						Select one....	
						Select one....	
						Select one....	
						Select one....	
						Select one....	
						Select one....	
5k	Provide the Bulletin language for the track.						

**6. Semester by Semester Program**

List below the typical semester-by-semester program for the major. If multiple tracks are available, click [HERE](#) for a template for additional tracks and append a PDF of each track's courses to the end of this form.

<b>YEAR 1 – FALL:</b> (e.g. "BIO 103; 3 credits")	CHE 105 (4 cr) CIS/WRD 110 (3 cr) EGR 101 (1 cr) EGR 102 (2 cr) MA 113 (4 cr) Total: 14 Credits	<b>YEAR 1 – SPRING:</b>	CIS/WRD 111 (3 cr) EGR 103 (2 cr) MA 114 (4) PHY 231 (4 cr) PHY 241 or CHE 111 (1) UK Core-Inquiry Soc Sci (3 cr) Total: 17 credits
<b>YEAR 2 - FALL :</b>	EES 220 (4 cr) EM 221 (3 cr) MA 213 (4 cr) MNG 201 (3 cr) PHY 232 (4 cr)	<b>YEAR 2 – SPRING:</b>	EES 230 (3) EM 302 (3) MA 214 (3 cr) MNG 291 (3 cr) MNG 303 (1 cr)

<sup>12</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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	Total: 18 credits		MNG 331 (2 cr) Total: 15 credits
<b>YEAR 3 - FALL:</b>	CE 341 (4 cr) MNG 211 (2 cr) MNG 301 (3 cr) MNG 335 (3 cr) MNG 351 (3 cr) Total: 15 credits	<b>YEAR 3 - SPRING:</b>	MNG 311 (3 cr) MNG 322 (2 cr) MNG 371 (3 cr) MNG 435 (3 cr) MNG 463 (3 cr) Min Pro Tech Elec (3 cr) Total 17 credits
<b>YEAR 4 - FALL:</b>	EM 313 (3 cr) MNG 332 (3 cr) MNG 341 (3 cr) MNG 551 (4 cr) MNG 564 (3 cr) MNG 591 (1 cr) Total: 17 credits	<b>YEAR 4 - SPRING:</b>	MNG 592 (3 cr) Technical Elective (3 cr) UK Core - Citizenship - USA (3) UK Core - Global Dyn (3 cr) UK Core - Humanities (3 cr) Total: 15 credits

**7. Approvals/Reviews**

Information below does not supersede the requirement for individual letters of support from educational unit administrators and verification of faculty support (typically takes the form of meeting minutes).

*In addition to the information below, attach documentation of department and college approval. This typically takes the form of meeting minutes but may also be an email from the unit head reporting department- and college-level votes.*

	Reviewing Group Name	Date Approved	Contact Person Name/Phone/Email
<b>7a</b>	<b>(Within College)</b>		
	Department of Mining Engineering	08/15/2017	Thomas Novak / 7-3818 / thomas.novak@uky.edu
	College of Engineering	11/02/2017	Kim Anderson / 7-1864 / kimberly.anderson@uky.edu
			/ /
			/ /
<b>7b</b>	<b>(Collaborating and/or Affected Units)</b>		
	Department of Civil Engineering	09/01/2017	Reg Souleyrette / 7-5309 / souleyrette@uky.edu
			/ /
			/ /
			/ /
			/ /
<b>7c</b>	<b>(Senate Academic Council)</b>		<b>Date Approved</b>
	Health Care Colleges Council (if applicable)		
	Undergraduate Council		3/6/18
			Joanie Ett-Mims

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	Total: 18 credits		<i>MNG 331 (2 cr)</i> <i>Total: 15 credits</i>
<b>YEAR 3 - FALL:</b>	CE 341 (4 cr) MNG 211 (2 cr) MNG 301 (3 cr) MNG 335 (3 cr) MNG 351 (3 cr) Total: 15 credits	<b>YEAR 3 - SPRING:</b>	<i>MNG 311 (3 cr)</i> <i>MNG 322 (2 cr)</i> <i>MNG 371 (3 cr)</i> <i>MNG 435 (3 cr)</i> <i>MNG 463 (3 cr)</i> <i>Min Pro Tech Elec (3 cr)</i> <i>Total 17 credits</i>
<b>YEAR 4 - FALL:</b>	EM 313 (3 cr) MNG 332 (3 cr) MNG 341 (3 cr) MNG 551 (4 cr) MNG 564 (3 cr) MNG 591 (1 cr) Total: 17 credits	<b>YEAR 4 - SPRING:</b>	<i>MNG 592 (3 cr)</i> <i>Technical Elective (3 cr)</i> <i>UK Core - Citizenship - USA (3)</i> <i>UK Core - Global Dyn (3 cr)</i> <i>UK Core - Humanities (3 cr)</i> <i>Total: 15 credits</i>

**7. Approvals/Reviews**

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7a	(Within College)		
	Department of Mining Engineering		Thomas Novak / 7-3818 / thomas.novak@uky.edu
	College of Engineering		Kim Anderson / 7-1864 / kimberly.anderson@uky.edu
			/ /
			/ /
7b	(Collaborating and/or Affected Units)		
	Department of Civil Engineering	09/01/2017	Reg Souleyrette / 7-5309 / souleyrette@uky.edu
			/ /
			/ /
			/ /
			/ /
7c	(Senate Academic Council)		Date Approved
	Health Care Colleges Council (if applicable)		
	Undergraduate Council		

**Proposed changes to major course requirements**

<b>Current Major Requirements</b>	<b>Proposed Major Requirements</b>
MA 214 Calculus IV (3)	MA 214 Calculus IV (3)
EES 230 Fundamentals of Geology I (3)	EES 230 Fundamentals of Geology I (3)
EM 221 Statics (3)	EM 221 Statics (3)
EM 302 Mechanics of Deformable Solids (3)	EM 302 Mechanics of Deformable Solids (3)
EM 313 Dynamics (3)	EM 313 Dynamics (3)
ME 220 Engineering Thermodynamics I (3)	CE 341 Introduction to Fluid Mechanics (4)
ME 330 Fluid Mechanics (3)	MNG 211 Mine Surveying (2)
MNG 211 Mine Surveying (2)	MNG 291 Elements of Mine Design (3)
MNG 291 Elements of Mine Design (3)	MNG 301 Minerals Processing (3)
MNG 301 Minerals Processing (3)	MNG 303 Deformable Solids Laboratory (1)
MNG 302 Minerals Processing Laboratory (1)	MNG 311 Elec Circuits and Mining Machinery (3)
MNG 303 Deformable Solids Laboratory (1)	MNG 322 Mine Safety and Health Mgmt (2)
MNG 311 Electrical Circuits and Mining Machinery (3)	MNG 331 Explosives and Blasting (2)
MNG 322 Mine Safety and Health Management and Processes (2)	MNG 332 Mine Plant Machinery (3)
MNG 331 Explosives and Blasting (2)	MNG 335 Intro to Mine Systems Analysis (3)
MNG 332 Mine Plant Machinery (3)	MNG 341 Mine Ventilation (3)
MNG 335 Introduction to Mine Systems Analysis (3)	MNG 351 Underground Mine Design (3)
MNG 341 Mine Ventilation (3)	MNG 371 Professional Development of Mining Engineers (3)
MNG 351 Underground Mine Design (3)	MNG 435 Mine Sys Engineering and Economics (3)
MNG 371 Professional Development of Mining Engineers (3)	MNG 463 Surface Mine Design (3)
MNG 435 Mine Sys Engineering and Economics (4)	BAE 535/NNG564 Environmental Control Systems Design and Reclamation (3)
MNG 463 Surface Mine Design (3)	MNG 551 Rock Mechanics (4)
BAE 535/MNG 564 Environmental Control System Design and Reclamation (3)	MNG 591 Mine Design Project I (1)
MNG 551 Rock Mechanics (4)	MNG 592 Mine Design Project II (3)
MNG 591 Mine Design Project I (1)	<b>Subtotal: Major hours (67)</b>
MNG 592 Mine Design Project II (3)	
<b>Subtotal: Major hours (71)</b>	

**Current Semester-by-Semester Schedule for BS in Mining Engineering**

Course	Credit	Course	Credit	Course	Credit	Course	Credit
<b>UK Core</b>							
<b>FRESHMAN YEAR</b>							
<b>First Semester - Fall</b>				<b>JUNIOR YEAR</b>			
<b>14</b>				<b>18</b>			
Inquiry - Arts and Creativity		CHE 105 Gen Col Chem I	4	ME 330 Fluid Mechanics			3
MNG 592	3	Comp and Com I (CISWRD 110)	3	MNG 211 Mine Surveying			2
Inquiry - Humanities		MA 113 Calculus I - QR Foundations	4	MNG 301 Minerals Proc			3
		EGR 101 Engineering Exploration I	1	MNG 302 Min Proc Lab			1
Inquiry Natural/Physical/Math		EGR 102 Fund of Eng Computing	2	MNG 335 Intro to Mine Sys (Quant. Reasng)			3
PHY 231 / 241	5			MNG 351 Underground Mine Design			3
or CHE 105 / 111				Inquiry-Humanities			3
<b>Second Semester - Spring</b>				<b>Second Semester - Spring</b>			
<b>17</b>				<b>18</b>			
Inquiry - Social Science		MA 114 Calculus II	4	MNG 322 Mine Safety and Health Mgmt			2
		EGR 103 Engineering Exploration II	2	MNG 371 Prof Dev of Mng Engrs			3
Composition and Communication		Comp and Com II (CISWRD 111)	3	MNG 311 Mine Elec Circuits			3
CISWRD 110	3	PHY 231 Gen Univ Phy - Inquiry N/P/M	4	MNG 435 Mine Sys Engr and Economics			4
CISWRD 111	3	PHY 241 or CHE 111 †	1	MNG 453 Surface Mine Design			3
Quantitative Reasoning - Foundations		Inquiry - Social Science	3	Min Proc Tech Elec			3
MA 113	4			<b>SENIOR YEAR</b>			
<b>SOPHOMORE YEAR</b>							
<b>First Semester - Fall</b>				<b>First Semester - Fall</b>			
<b>18</b>				<b>17</b>			
Quantitative Reasoning - Statistical Inferential Reasoning		EM 221 Statics	3	MNG 332 Mine Plant Machinery			3
MNG 336		EES 220 Prin of Phy Geol	4	MNG 341 Mine Ventilation			3
Citizenship - USA		MA 213 Calculus III	4	MNG 564 Enviro Control Sys. Des & Reclam			3
		MNG 201 Mining Engineering Fundamentals	3	MNG 551 Rock Mechanics			4
Citizenship - Global		PHY 232 Gen Univ Phy	4	MNG 591 Mine Design Proj I			1
				EM 313 Dynamics			3
<b>Second Semester - Spring</b>				<b>Second Semester - Spring</b>			
<b>18</b>				<b>15</b>			
Foreign Language		MA 214 Calculus IV	3	MNG 592 Mine Design Proj II - Inquiry A&C			3
		EES 230 Fund of Geol I	3	Global Dynamics			3
		EM 302 Mech of Deform Sol	3	Technical Elective			3
EXCESS COURSES		ME 220 Engr Thermo I	3	Citizenship - USA			3
		MNG 291 Elements of Mine Design	3	Supportive Elective			3
		MNG 303 Deform Sol Lab	1				
		MNG 331 Expl and Blasting	2				
<b>Total Credits</b>							<b>135</b>

Proposed Semester-by-Semester Schedule for BS in Mining Engineering

Course	Credit	Course	Credit	Course	Credit
<b>UK Core</b>					
		<b>FRESHMAN YEAR</b>		<b>JUNIOR YEAR</b>	
		<b>First Semester - Fall</b>		<b>First Semester - Fall</b>	
Inquiry - Arts and Creativity		CHE 105 Gen Col Chem I	4	EM 313 Dynamics	3
MNG 592	3	Comp and Com I (CISWRD 110)	3	MNG 211 Mine Surveying	2
Inquiry - Humanities		EGR 101 Engineering Exploration I	1	MNG 301 Minerals Proc	3
		EGR 102 Fund of Eng Computing	2	MNG 322 Mine Safety and Health Mgmt	2
Inquiry Natural/Physical/Math		MA 113 Calculus I - QR Foundations	4	MNG 335 Intro to Mine Sys (Quant. Reasng)	3
PHY 231 / 241	5			MNG 351 Underground Mine Design	3
or CHE 105 / 111					
		<b>Second Semester - Spring</b>		<b>Second Semester - Spring</b>	
Inquiry - Social Science		Comp and Com II (CISWRD 111)	3	CE 341 Introduction to Fluid Mechanics	4
		EGR 103 Engineering Exploration II	2	MNG 311 Mine Elec Circuits	3
<b>Composition and Communication</b>		MA 114 Calculus II	4	MNG 371 Prof Dev of Mng Engrs	3
CISWRD 110	3	PHY 231 Gen Univ Phy - Inquiry N/P/M	4	MNG 463 Surface Mine Design	3
CISWRD 111	3	PHY 241 or CHE 111 †	1	Min Proc Tech Elec	3
<b>Quantitative Reasoning - Foundations</b>		Inquiry - Social Science	3	MNG 564 Enviro Control Sys. Des & Reclam	
MA 113	4				
<b>SOPHOMORE YEAR</b>					
		<b>First Semester - Fall</b>		<b>First Semester - Fall</b>	
Quantitative Reasoning - Statistical Inferential Reasoning		EES 220 Prin of Phy Geol	4	MNG 332 Mine Plant Machinery	3
MNG 335	3	EM 221 Statics	3	MNG 341 Mine Ventilation	3
<b>Citizenship - USA</b>		MA 213 Calculus III	4	MNG 435 Mine Sys Engr and Economics	3
		MNG 201 Mining Engineering Fundamentals	3	MNG 551 Rock Mechanics	4
<b>Citizenship - Global</b>		PHY 232 Gen Univ Phy	4	MNG 564 Enviro Control Sys. Des & Reclam	3
				MNG 591 Mine Design Proj I	1
		<b>Second Semester - Spring</b>		<b>Second Semester - Spring</b>	
<b>Foreign Language</b>		EES 230 Fund of Geol I	3	MNG 592 Mine Design Proj II - Inquiry A&C	3
		EIM 302 Mech of Deform Sol	3	Global Dynamics	3
		MA 214 Calculus IV	3	Technical Elective	3
<b>EXCESS COURSES</b>		MNG 291 Elements of Mine Design	3	Citizenship - USA	3
		MNG 303 Deform Sol Lab	1	Inquiry-Humanities	3
		MNG 331 Expt and Blasting	2		
<b>Total Credits</b>					<b>128</b>



## Substantive Change Checklist<sup>1</sup>

Substantive change, according to the Commission on Colleges of the Southern Association of Colleges and Schools (SACSCOC or SACS), is “a significant modification or expansion of the nature and scope of an accredited institution.”<sup>2</sup> Substantive change is a federal concept, based in the regulations of the U.S. Department of Education,<sup>3</sup> which regional accreditors are required to enforce.

The University is required to submit any substantive change to SACS for review, and in some cases approval, prior to implementation of such substantive change. As noted by SACS:

“if an institution fails to follow the substantive change policy and procedures of the Commission on Colleges, it may lose its Title IV funding or be required by the U.S. Department of Education to reimburse it for money received by the institution for programs related to the unreported substantive change. In addition, the institution’s case may be referred to the Commission for the imposition of a sanction or for removal from membership.”<sup>4</sup>

**Checklist Instructions:** To ensure substantive change compliance, individuals should complete the checklist on the following pages in the early stages of any proposal (e.g. new degree program, new certificate program, etc.) or curricular revision. Upon completion, the form must be submitted to the associate provost for institutional effectiveness or designee by e-mail to [InstitutionalEffectiveness@uky.edu](mailto:InstitutionalEffectiveness@uky.edu). A determination as to whether the proposed program or changes to the existing program constitutes a substantive change will be made within seven (7) business days of receipt and next steps will be communicated accordingly.

Questions concerning substantive change are to be directed to Dr. GT Lineberry, associate provost for faculty advancement and institutional effectiveness ([gt.lineberry@uky.edu](mailto:gt.lineberry@uky.edu)) and Dr. Mia Alexander-Snow, director of planning and institutional effectiveness ([mia.alexander-snow@uky.edu](mailto:mia.alexander-snow@uky.edu)).

<sup>1</sup> Adapted, with appreciation, from University of Virginia’s “Substantive Change Checklist.”

<sup>2</sup> See *Substantive Change for Accredited Institutions of the Commission on Colleges: Policy Statement*, p. 1.

<sup>3</sup> See 34 C.F.R. § 602.22.

<sup>4</sup> See *Substantive Change for Accredited Institutions of the Commission on Colleges: Policy Statement*, p. 9.

## **Brandenburg, Barbara J**

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**From:** Pearson, RaeAnne M  
**Sent:** Wednesday, November 01, 2017 1:08 PM  
**To:** Brandenburg, Barbara J  
**Cc:** Office of Strategic Planning and Institutional Effectiveness  
**Subject:** Mining Engineering -Sub Change

Dear Barbara Brandenburg,  
Thank you for your email regarding the proposed program change(s) to **Mining Engineering, BSMIE (14.2101)**.

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):

- Reducing credit hours from 135 to 128 due to CPE mandate

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>

**see blue.**

**From:** Novak, Thomas  
**Sent:** Friday, September 1, 2017 3:25 PM  
**To:** Sottile, Joseph  
**Subject:** FW: CE341 for Mining Students

Joe,

Here's Reg's letter.

Tom

=====  
Thomas Novak, Ph.D., P.E.  
Professor and Department Chair  
Alliance Coal Academic Chair  
Department of Mining Engineering  
University of Kentucky  
230 Mining & Mineral Resources Bldg  
504 Rose Street  
Lexington, KY 40506-0107  
Phone: 859-257-3818  
Fax: 859-323-1962  
E-mail: Thomas.Novak@uky.edu  
=====

**From:** Souleyrette, Reginald  
**Sent:** Friday, September 01, 2017 12:25 PM  
**To:** Novak, Thomas  
**Cc:** Brion, Gail M; Jimmy Fox ([jffox@engr.uky.edu](mailto:jffox@engr.uky.edu)); Ormsbee, Lindell E; Yost, Scott  
**Subject:** CE341 for Mining Students

Tom,

The Department of Civil Engineering permits students in the Department of Mining Engineering to take CE 341, Introduction to Fluid Mechanics (4 credits), as a required course for the B.S. degree in mining engineering, starting in academic year 2018-2019. It is my understanding that the mining engineering students will take CE 341 during the Spring semester.

Regards,

Reg

Reginald R. "Reg" Souleyrette, PhD, PE  
Chair, Department of Civil Engineering  
Commonwealth Chair Professor of Transportation Engineering



Program Manager: Planning and Education, Kentucky Transportation Center  
University of Kentucky - 161 Raymond Building; Lexington, Kentucky 40506  
859-257-5309 (ph/fax) 515-231-7264 (mobile)  
<http://www.engr.uky.edu/research/researchers/reginald-r-souleyrette/>

**Brandenburg, Barbara J**

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**From:** Novak, Thomas  
**Sent:** Thursday, October 12, 2017 4:08 PM  
**To:** Brandenburg, Barbara J  
**Subject:** RE: Program change

To whom it may concern:

The mining engineering faculty held its Annual Retreat on August 14-15, 2017 at the Hilton in Downtown Lexington. At the retreat, the topic of modifying the MNG undergraduate curriculum to reduce the required number of credits from 135 to 128 was on the agenda. The faculty discussed the topic in detail, and a number of changes were agreed upon. A motion was made to adopt the proposed changes, which passed unanimously.

Regards,

Tom Novak

=====  
Thomas Novak, Ph.D., P.E.  
Professor and Department Chair  
Alliance Coal Academic Chair  
Department of Mining Engineering  
University of Kentucky  
230 Mining & Mineral Resources Bldg  
504 Rose Street  
Lexington, KY 40506-0107  
Phone: 859-257-3818  
Fax: 859-323-1962  
E-mail: [Thomas.Novak@uky.edu](mailto:Thomas.Novak@uky.edu)  
=====

**From:** Brandenburg, Barbara J  
**Sent:** Thursday, October 12, 2017 9:46 AM  
**To:** Novak, Thomas  
**Subject:** Program change

Dr. Novak,

I am reviewing the Program Change for Mining Engineering. I will need a letter from you stating that the faculty voted on the change and the date it was approved. I have been getting requests for these at the Senate level as the changes go thru. If you will send it to me via email, I will attach it to the program change.

Thanks,

BJ

BJ Brandenburg  
College of Engineering  
Director of Student Records



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](http://www.engr.uky.edu)

November 2, 2017

To Whom It May Concern:

The College of Engineering faculty reviewed the program change for Mining Engineering via email. There were no concerns or objections raised. The date of approval is November 2, 2017.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kim Anderson'.

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

seeblue.

*An Equal Opportunity University*