

The SAASC convened on Friday, April 13, 2018 to consider a proposal from the College of Engineering, Department of Chemical and Materials Engineering (Materials Engineering program) 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 addition of a new 1 credit course, MSE 370. The committee confirmed that the new course had been approved through SAPC.

Vote:

A motion was made and seconded that the SAASC approve the proposal from the College of Engineering, Department of Chemical and Materials Engineering (Materials Engineering program) 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.

**SUMMARY OF CHANGES**

**Check all that apply.**

- Courses     
  Program name     
  Total required credit hours     
  Student learning outcomes  
 Criteria for admissions/progression/termination     
  Certificate assessment     
  Other

**1. General Information**

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> :	Chemical and Materials Engineering
1c	CIP code <sup>3</sup> :	14.1801	Today's Date:	10/12/2017
1d	Current major name: (Biology, Design, etc.)	Materials Engineering	Proposed major name:	
1e	Current Degree (BA, BFA, etc.):	BSMAE	Proposed degree:	
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		
1h	Date of most recent periodic program review for this degree:	Fall 2016		
1i	Requested effective date:	<input checked="" type="checkbox"/> Fall semester following approval.	OR	<input type="checkbox"/> Specific Date <sup>4</sup> : <i>Fall 20</i>

<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.

CHANGE UNDERGRADUATE DEGREE PROGRAM

1j	Contact person name: Dr. John Balk	Phone / Email: 257-4582 / john.balk@uky.edu
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**2. Overview of Changes**

2a	Describe the rationale for the changes, including results from the most recent program review if applicable. (450 word limit) In order to comply with the new requirement that limits degree programs to 128 total credit hours, we request two changes to the courses in the Materials Engineering (MSE) curriculum. This includes the removal of a 3-credit course (Supportive Elective, which is no longer required by the University) and the addition of a new 1-credit course (MSE 470, for which a new course form has been submitted).
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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:	42	42
ii.	Credit Hours of Preprofessional Courses:		
iii.	Credit Hours of Major Core Course Requirements	67	68
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):		
xii.	Total Credit Hours Required by Level:	100-level:	
		200-level:	
		300-level:	
		400-level:	
		500-level:	

	<b>TOTAL CREDIT HOURS REQUIRED FOR GRADUATION:</b>	<u>130</u>	<u>128</u>
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xv.	If the total hours required for graduation have changed, explain below. (150 word limit) The MSE program currently requires 130 credit hours in the BS degree curriculum. New regulations limit the number of credit hours in a degree program to 128. In order to meet this new requirement, we propose the removal of the Supportive Elective (3 credits) and the addition of a new 1-credit course (MSE 470, course proposal submitted separately), which will result in 128 credit hours for the MSE curriculum (BS degree).
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2c	Will the requested change(s) result in the use of courses from another educational unit?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If "Yes," describe generally the courses and how they will be used.		
	If "Yes," two pieces of supporting documentation are required.		

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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.

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  No

If "Yes," the department must also submit a change form to change the minor.

**3. Course Sharing**

3a. Will the requested changes result in the use of courses from another unit? Yes  No

If "Yes," describe generally the courses and how they will used.

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 other units' chair/director<sup>6</sup> from which individual courses will be used.

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.

**3. UK Core Courses**

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  No

If "Yes," note the specific changes in the grid below.

UK Core Area	Current Course	Current Credits	Proposed Course	Proposed Credits
<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
<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				

<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>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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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.  <input 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>7</sup> from which individual courses will be used.			
<b>Current</b>		<b>Proposed</b>	
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.		
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**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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
<b>Current</b>		<b>Proposed</b>				
<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....
						Select one....

5b	Will the existing language in the Bulletin about college-level requirements change?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If "Yes," provide the new language below.			

5c	Will the pre-major or pre-professional course requirements change? (If "Yes,"	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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<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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	Indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5e.)					
<i>Current</i>			<i>Proposed</i>			
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.						
<i>Current</i>			<i>Proposed</i>			
Prefix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Course Status <sup>10</sup>
			MSE 470	1	Application of Materials Engineering to Design Problems	New
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
						Select one....
5f Provide the Bulletin language for major core course requirements.						

<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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Major Requirements  
 CHE 236 Survey of Organic Chemistry (3)  
 CME 200 Process Principles (3)  
 EM 221 Statics (3)  
 MA 214 Calculus IV (3)  
 PHY 232 General University Physics (4)  
 MSE 301 Materials Science II (3)  
 MSE 351 Materials Thermodynamics (3)  
 EM 302 Mechanics of Deformable Solids (3)  
 EE 305 Electrical Circuits and Electronics (3)  
 PHY 361 Principles of Modern Physics (3)  
 MSE 401G Metal and Alloys (3)  
 MSE 402G Electronic Materials and Processing (3)  
 MSE 403G Ceramic Engineering and Processing (3)  
 MSE 404G Polymeric Materials (3)  
 MSE 407 Materials Laboratory I (3)  
 MSE 408 Materials Laboratory II (3)  
 MSE 436 Material Failure Analysis (3)  
 MSE 470 Application of Materials Engineering to Design Problems (1)  
 MSE 480 Materials Design (3)  
 MSE 535 Mechanical Properties of Materials (3)  
 MSE 538 Metals Processing (3)  
 MSE 585 Materials Characterization Techniques (3)  
 STA 381 Engineering Statistics – A Conceptual Approach (3)

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  No

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....
						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  No   
 We are removing the Supportive Elective from the curriculum.

<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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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")	EGR 101; 1 credit EGR 102; 2 credits CHE 105; 4 credits CHE 111; 1 credit CIS/WRD 110; 3 credits MA 113; 4 credits	<b>YEAR 1 – SPRING:</b>	<i>EGR 103; 2 credits</i> <i>CIS/WRD 111; 3 credits</i> <i>MA 114; 4 credits</i> <i>PHY 231; 4 credits</i> <i>PHY 241; 1 credit</i> <i>UK Core; 3 credits</i>
<b>YEAR 2 - FALL :</b>	MSE 201; 3 credits MSE 202; 1 credit MA 213; 4 credits CHE 107; 3 credits CHE 113; 2 credits EM 221; 3 credits	<b>YEAR 2 – SPRING:</b>	<i>MSE 301; 3 credits</i> <i>MSE 351; 3 credits</i> <i>MA 214; 3 credits</i> <i>PHY 232; 4 credits</i> <i>CHE 236; 3 credits</i>
<b>YEAR 3 - FALL:</b>	MSE 401G; 3 credits MSE 404G; 3 credits CME 200; 3 credits EM 302; 3 credits STA 381; 3 credits UK Core; 3 credits	<b>YEAR 3 - SPRING:</b>	<i>MSE 402G; 3 credits</i> <i>MSE 403G; 3 credits</i> <i>MSE 407; 3 credits</i> <i>MSE 535; 3 credits</i> <i>PHY 361; 3 credits</i>
<b>YEAR 4 - FALL:</b>	MSE 408; 3 credits MSE 436; 3 credits MSE 470; 1 credit MSE 585; 3 credits	<b>YEAR 4 - SPRING:</b>	<i>MSE 480; 3 credits</i> <i>MSE 538; 3 credits</i> <i>Tech. Elective; 3 credits</i> <i>UK Core; 3 credits</i>

<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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	EE 305; 3 credits Tech. Elective; 3 credits		UK Core; 3 credits
<b>7. Approvals/Reviews</b>			
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).			
<i>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.</i>			
	<b>Reviewing Group Name</b>	<b>Date Approved</b>	<b>Contact Person Name/Phone/Email</b>
7a	(Within College)		
	Chemical & Materials Engineering	8/17/2017	Dr. Douglass Kalika / 7-5507 / douglass.kalika@uky.edu
	College of Engineering	11/02/2017	Kimberly Anderson / 7-1864 / kimberly.anderson@uky.edu
			/ /
			/ /
7b	(Collaborating and/or Affected Units)		
			/ /
			/ /
			/ /
			/ /
			/ /
7c	(Senate Academic Council)	<b>Date Approved</b>	<b>Contact Person Name</b>
	Health Care Colleges Council (if applicable)		
	Undergraduate Council	3/6/18	Joanie Ett-Mims

**Brandenburg, Barbara J**

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**From:** Pearson, RaeAnne M  
**Sent:** Wednesday, November 01, 2017 1:09 PM  
**To:** Brandenburg, Barbara J  
**Cc:** Office of Strategic Planning and Institutional Effectiveness  
**Subject:** Materials Engineering, BSMAE\_ Sub Change

Dear Barbara Brandenburg,  
Thank you for your email regarding the proposed program change(s) to **Materials Engineering, BSMAE (14.1801)**.

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 130 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.**



**Department of Chemical and  
Materials Engineering**

*177 Anderson Hall  
Lexington, KY 40506-0046  
(859) 257-5507  
douglass.kalika@uky.edu*

TO: Prof. Kim Anderson, Associate Dean for Administration and Academic Affairs

RE: Approval of Program Change (128 hours) – BS in Materials Engineering

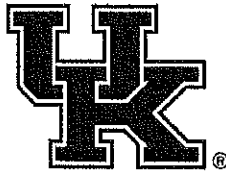
On August 17, 2017, the faculty of the Department of Chemical and Materials Engineering met to review the proposed program change for the BS degree program in Materials Engineering (re: 128-hour curriculum). At the conclusion of the discussion, the faculty voted 19-0 in favor of the proposed curriculum.

The following faculty were unable to attend the meeting: Professor Anderson; Professor Andrews. The Paducah faculty (Elsayed, Englert, Hwang and Seay) were represented by Prof. David Silverstein, who attend the faculty meeting in Lexington.

Sincerely,

*Doug Kalika*

Douglass S. Kalika, Professor and Chair  
Department of Chemical and Materials Engineering



University of Kentucky  
College of Engineering  
*Office of the Dean*

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Lexington, KY 40506-0503  
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[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 Materials 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 'Kimberly Anderson'.

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

seeblue.

*An Equal Opportunity University*