December 18, 2015

TO: Sarah Mangelsdorf, Provost

FROM: Kathryn A. VandenBosch, Dean and Director, CALS

CC: Dick Straub, Senior Associate Dean, CALS
    Sarah Pfatteicher, Associate Dean for Academic Affairs, CALS
    Nikki Bollig, Assistant Dean for Academic Programs and Policies, CALS
    Doug Reinemann, Department Chair, BSE
    Dave Bohnhoff, Undergraduate Curriculum Committee Chair, BSE
    Jocelyn Milner, Associate Provost and Director, Academic Planning and Analysis
    Scott Owczarek, Registrar

RE: Request to Discontinue Named Option: BSE, Structural Systems Engineering Option

On December 18, 2015, the CALS Academic Planning Council approved a request to formally discontinue the Structural Systems Engineering Option within the Biological Systems Engineering degree. The request is largely due to low enrollments in the option and an impending faculty retirement. The final term for admission to the option is Fall 2015 and the final term for awarding of the degree is Spring 2018. The attached memo outlines the teach-out plan for students currently in the option and plans for eventual discontinuation. We understand this motion requires action by the UAPC and ask that it be placed on their agenda at the earliest possible time. Please feel free to contact me or Associate Dean Pfatteicher if you have any questions.
December 8, 2015

TO: CALS Academic Planning Council

FROM: CALS Curriculum Committee

RE: Request to Discontinue Named Option: BSE, Structural Systems Engineering Option

CC: Sarah Pfatteicher, Associate Dean for Academic Affairs
    Nikki Bollig, Assistant Dean for Academic Programs and Policies
    Doug Reinemann, BSE Department Chair
    Dave Bohnhoff, BSE Undergraduate Curriculum Committee Chair

On December 8, 2015, the CALS Curriculum Committee approved a motion to accept the attached request to discontinue the BSE, Structural Systems Engineering Option with the friendly amendment that the final term for admission to the option will be Fall 2015 and the final term for awarding of the degree will be Spring 2018. Program discontinuation requests require action by APC and UAPC, so we forward this to you with our vote of support.

Details of teach out plan communicated via email from Sarah Pfatteicher to Jocelyn Milner: Fall 2015 will be the last term that students can enter enrollment in the named option. Admissions will be suspended as of Spring 2016. The final term for enrollment in and being awarded the Structural Systems Engineering named option will be Spring 2018. There are currently 19 students enrolled in the Structural Systems Engineering named option; these students will have until Spring 2018 to complete the option. After that, they will be shifted to the no-option major. Students who stop out will be re-entered into the Biological Systems Engineering degree/major without a named option. Note added Jan 8 2016.
23 November 2015

To: CALS Curriculum Committee (c/o Asst. Dean Nikki Bollig)
   CALS APC (c/o Laura Van Toll).

From: David R. Bohnhoff, Chair, BSE Undergraduate Instruction and Program Committee

Re: **BSE Request to Discontinue Structural Systems Engineering Specialization**

**Curriculum Overview**

The Biological Systems Engineering Bachelor of Science degree (BS-BSE) is administered by the Biological Systems Engineering Department in the College of Agricultural and Life Sciences. The program is accredited by ABET and the curriculum must meet national standards. Students typically enter the department in the PAE (Pre-BSE, formerly Pre-Ag Engineering) classification and are moved to the ABE (degree-granting) classification once they meet the published admission requirements. Students may choose one of five paths through the degree – a general path, or one of four transcripted Options: Food & Bioprocess Engineering, Natural Resources & Environment Engineering, Machinery Systems Engineering, and Structural Systems Engineering. The foundation, core, and capstone courses are identical for all five paths, with specialization occurring in the “technical electives” section of the curriculum. ABET accredits the overall BSE degree, not the options within it.

**Required Structural Systems Engineering Specialization Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Instructor/Department</th>
<th>Courses Required Only For Structural Systems Option^b</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSE 351</td>
<td>Bohnhoff/BSE</td>
<td>X</td>
</tr>
<tr>
<td>BSE/DS/LAND ARC 356</td>
<td>Bohnhoff/BSE</td>
<td>X</td>
</tr>
<tr>
<td>BSE 464</td>
<td>Choi/BSE</td>
<td></td>
</tr>
<tr>
<td>BSE 201</td>
<td>Panuska/ BSE</td>
<td></td>
</tr>
<tr>
<td>CIV ENGR 340</td>
<td>Hedegaard/CEE</td>
<td>X</td>
</tr>
<tr>
<td>E M A 202 or M E 240</td>
<td>varies</td>
<td></td>
</tr>
<tr>
<td>E M A 303 or M E 306</td>
<td>varies</td>
<td></td>
</tr>
<tr>
<td>E M A/M E 307</td>
<td>varies</td>
<td></td>
</tr>
</tbody>
</table>

^a All other courses taken by a BSE Structural Systems Engineering student are required of all BSE students.

^b Courses not checked in this column are required by other, but not all, BSE specializations.
With Professor Bohnhoff’s retirement expected in 2017 or sooner, the two key courses that define the Structural Systems Engineering specialization will no longer be taught, as there are no other BSE faculty with the expertise or teaching capacity to take on these courses. With this in mind, on 21 May 2105, the BSE Undergraduate Instruction and Program Committee voted to discontinue the Structural Systems Engineering specialization. Completion of the specialization, while beneficial to students with an interest in the area, is neither a prerequisite for engineering licensure, nor a requirement for employment opportunities in structural engineering. Students who complete any accredited engineering program are eligible for licensure as Professional Engineers.

Students Affected & Teach-Out Plan

There are currently 19 students enrolled in the Structural Systems Engineering specialization. Ten of these students are ABE classified, the other 7 are PAE (pre-BSE). Currently there are 163 undergraduates enrolled in the Biological Systems Engineering program.

Sixteen of the Structures students have completed at least 90 credits toward their degrees, one student has 57 credits, another has 60 and a third has 81. It follows that all structures students should be able to complete their requirements within the next 5 semesters. These students will be permitted to complete the degree so long as they remain continuously enrolled in the program. Continuing students will be proactively advised to schedule their remaining coursework to align with the final offerings of the required courses.

Currently declared students who are not able to complete the required coursework prior to Prof. Bohnhoff’s retirement will be permitted to substitute coursework (taken at the UW-Madison or elsewhere) to satisfy requirements, so long as the faculty in the department deem the substitutions to be in line with accreditation criteria and the spirit and intent of the Structures curriculum.

Discontinuation Timeline

Students not yet in the ABE-SS or PAE-SS classifications as of Fall 2015 and those who may be currently enrolled but who stop out prior to completing their degrees will not be permitted to complete the Structural Systems Engineering specialization, but will be advised about alternative coursework available under the general BSE degree. Students may also wish to consider the Construction Engineering and Management option within the Civil & Environmental Engineering degree.

The BSE department requests that the Structural Systems Engineering specialization be removed from the list of available programs as soon as is practicable. Until such time as this can be accomplished, the department faculty will strive to serve students who matriculate at UW-Madison with the intent of completing this program.