### Program Changes Pending Approval from Faculty Senate

<table>
<thead>
<tr>
<th>Code</th>
<th>Field</th>
<th>Old Value</th>
<th>New Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASLPMC</td>
<td>Select a reason for this modification</td>
<td>Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)</td>
<td>Changing CIP Code—(LON)</td>
</tr>
<tr>
<td>BMEGMS</td>
<td>Are you adding a concentration?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Effective Catalog Year</td>
<td>Fall 2018</td>
<td>Fall 2020</td>
</tr>
<tr>
<td></td>
<td>CIP Code</td>
<td>Agricultural Engineering.</td>
<td>Bioengineering and Biomedical Engineering.</td>
</tr>
<tr>
<td></td>
<td>Does this proposal impact any courses from another College/School?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Scheduled Program Review Date</td>
<td>2018-2019</td>
<td>2025-2026</td>
</tr>
<tr>
<td></td>
<td>Description and justification of the request</td>
<td>The requested changes are to streamline our program's admission and degree requirements with those of comparable programs in the nation via the following:</td>
<td>Adding Healthcare Entrepreneurship Concentration within our BMEG MS Degree Program</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Modifying admission requirements for students entering with a non-Engineering degree. Establishing a set of foundational courses that the applicant must have to be accepted into the program.</td>
<td>Changing BMEGMS CIP code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Modifying core course requirements for the program.</td>
<td>Streamlining language within all our various tracks.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Specifying the minimum number of BMEG Courses that must be taken for the MS degree.</td>
<td>To streamline language in our various BMEG options/concentrations with the addition of this new concentration to have at least 15 hours of Engineering classes in all the MSBMEG degree options/concentrations.</td>
</tr>
</tbody>
</table>
**Reviewer Comments**

- **pkoski** - Tue, 14 Feb 2017 20:10:21 GMT - Rollback: Please list the changes in the section on description of the request.
- **ndennis** - Tue, 14 Feb 2017 21:43:42 GMT - Rollback: Please list the changes you are making in the Description and Justification for change section.
- **ndennis** - Tue, 14 Feb 2017 22:27:35 GMT - Added language to clarify the math requirement and added items to the description of the change.
- **agrimfin** - Tue, 21 Feb 2017 20:45:04 GMT - Due to the approval timeline to meet catalog copy, changed the effective date to fall 2018.
- **rossetti** - Tue, 12 Sep 2017 18:21:07 GMT - Rollback: The EAPC suggests increasing the number of required BMEG hours for the students in the non-thesis option to ensure engineering design coverage.
- **ndennis** - Tue, 07 Nov 2017 22:45:14 GMT - Modified Justification for changes.
- **agrimfin** - Fri, 10 Nov 2017 16:47:10 GMT - Changed program review date from July 1, 2017 to 2018-2019 to match scheduled program review policy dates.
- **agrimfin** - Fri, 10 Nov 2017 19:06:04 GMT - Removed changes to the CIP Code so that minor changes could be approved. The department will need to submit an LON 1c in order to request a change to the CIP Code.
- **ndennis** - Fri, 08 Feb 2019 20:08:14 GMT - Rollback: Per request of you department head.
- **ndennis** - Fri, 08 Feb 2019 20:49:49 GMT - Rollback: You also need to describe your current program in BMEG which will also be a track (give it a name).
- **agrimfin** - Tue, 12 Feb 2019 16:50:11 GMT - Hyperlinked courses throughout program requirements to make sure they match course inventory.
- **agrimfin** - Tue, 12 Feb 2019 16:50:44 GMT - Also, updated scheduled program review date.
- **agrimfin** - Tue, 12 Feb 2019 17:01:09 GMT - Rollback: Changing the CIP Code is considered a major change. Please complete the LON form and change the reason for the modification.
- **ndennis** - Wed, 03 Apr 2019 17:19:21 GMT - Change track to concentration.
- **agrimfin** - Thu, 11 Apr 2019 21:54:54 GMT - Entered the concentration program code with input from department.
- **lkulczza** - Thu, 06 Jun 2019 00:42:26 GMT - Adjusted effective date from fall 2019 to fall 2020.
- **ggunderm** - Thu, 06 Jun 2019 13:32:14 GMT - CIP Code change is appropriate.
- **ndennis** - Thu, 18 Jul 2019 16:23:32 GMT - Removed the ability to use 3000 level courses for graduate credit, even if approved by the advisory committee.
- **agrimfin** - Thu, 12 Sep 2019 14:10:12 GMT - Changed reason for change to changing CIP code and inserted approval dates into LON. (Concentrations no longer require ADHE approval, but changing CIP codes does. Does not impact approval workflow.)

**Concentration(s):**
ADD | BMEG-HCEP | Healthcare Entrepreneurship

**Track(s):**
ADD | 14.0501 | Healthcare Entrepreneurship Track

**College(s)/School(s):**
WCOB
EDUC

**BSBA/M.Acc**

**Effective Catalog Year:**
Fall 2018

**Upload attachments**
BMEGMS - CIP Code Change -Curriculum.docx
BMEGMS - CIP Code Change - Ltr of Notification.pdf

**Effective Catalog Year:**
Fall 2020
<table>
<thead>
<tr>
<th>Description and justification of the request</th>
<th>removed non-requirements description from CIM block.</th>
<th>To keep descriptive text and requirements separate.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add ACCT 2013 from the courses required within the 90 hours of study even though ACCT 2013 is a prerequisite to ACCT 3723 and ACCT 3843. Delete “the grades in ACCT 2013, ACCT 3723 and ACCT 3843” and change to “the accounting grade point average” for clarification of expected grades for admission to the IMacc program. Add ACCT 310VH or ACCT 535V to Undergraduate Coursework internship recommendation. Modify the enrollment in a consecutive fall/spring semester and add, “during their graduate year”. Delete course list and refer to the MACC and ACCTMP programs of study outlined in the corresponding sections of the catalog. Modify contact information. Update catalog language to include ACCTMP program.</td>
<td>To clarify program requirements for admission to the Integrated MACc program.</td>
<td></td>
</tr>
</tbody>
</table>

Reviewer Comments

agriffin - Tue, 08 Oct 2019 20:54:40 GMT - Replaced all uses of MPACC with ACCTMP.

CENGGS

User ID: crsleaf1
drt

Scheduled Program Review Date

NA
2020-2021

Phone:

575-6036
575-5090

Description and justification of the request

Adding portion of general CSCE requirements that was dropped when the requirements were split into separate tabs. |

Replace INEG 2313 with INEG 3313. Updated computer engineering Student Learning Outcomes. INEG developed a new course, INEG 3313, for non-majors and the CE program has voted to replace INEG 2313 with INEG 3313. However, the INEG 3313 is in the approval chain and I cannot add it yet.

CSCE voted to use new EAC of ABET outcomes for computer engineering

Description and Justification for this request

Adding portion of general CSCE requirements that was dropped when the requirements were split into separate tabs. |

Program Goals and Objectives

Program Educational Objectives:\n\n\nFor the B.S. degree program in computer engineering, the following set of program educational objectives describe what graduates are expected to attain within a few years after graduation.\n\n\nComputer Engineering graduates will:\n\n1. Be able to practice their profession in a competitive market. The competitive market includes being recruited by industrial firms, government agencies and graduate schools.\n\n2. Make a significant contribution to society, including improving the standard of living particularly for the taxpayers of the state of Arkansas.\n\n3. Understand the need for life-long learning and continued professional development for a successful and rewarding career.\n\n4. Accept responsibility for leadership roles, in their profession, communities, and society.\n\n| Effective Catalog Year | Fall 2016 | Fall 2020 |

Program Goals and Objectives

NA
<table>
<thead>
<tr>
<th>Track(s) - Action</th>
<th>Action</th>
</tr>
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<tbody>
<tr>
<td>Focused Stud(y/ies) - Action</td>
<td>Action</td>
</tr>
<tr>
<td>What are the total hours needed to complete the program?</td>
<td>126</td>
</tr>
<tr>
<td>Reviewer Comments</td>
<td>agriffin - Fri, 20 Sep 2019 20:18:44 GMT - Swapped Social Science elective course and CSCE elective course with a comment for each. It removed the red box error. College is encouraged to review these changes to make sure the edits resulted in the intended outcome. agriffin - Fri, 20 Sep 2019 20:20:07 GMT - Inserted Scheduled Program Review date.</td>
</tr>
<tr>
<td>CHEGPH Effective Catalog Year</td>
<td>Fall 2019 Fall 2020</td>
</tr>
<tr>
<td>Scheduled Program Review Date</td>
<td>2023 2022-2023</td>
</tr>
<tr>
<td>Description and justification of the request</td>
<td>Change requirement from MATH 4423 to MATH 5423. Also remove allowing any 4000 level electives per ADHE PhD requirements. The MATH 4423 course has been replaced by 5423. CHEG elective requirement was reduced from 6 to 3 hours. Technical elective hours were reduced from 18 to 12 hours. Dissertation hours were increased by 9 hours to maintain the total number of required hours at 72. In order to increase the focus on research experience, the number of course hours is being decreased. This was decided after a comprehensive examination of other domestic Chemical Engineering PhD course requirements.</td>
</tr>
<tr>
<td>Reviewer Comments</td>
<td>ndennis - Sat, 27 Jan 2018 02:33:54 GMT - Rollback: Make your corrections. ndennis - Tue, 06 Feb 2018 16:26:04 GMT - Changed program review date. pkoski - Tue, 06 Feb 2018 16:33:22 GMT - I removed the word 'new' and added 'ADHE.' The requirements are not new. agriffin - Mon, 05 Aug 2019 21:05:54 GMT - In the program requirements field, I changed 42 hours to 33 hours of course work. And changed 30 hours of dissertation to 39 hours with permission from submitter. agriffin - Mon, 05 Aug 2019 21:06:56 GMT - Updated program review date to include academic year.</td>
</tr>
<tr>
<td>CNSLMS-ADCN</td>
<td>Inactivated/Deleted</td>
</tr>
</tbody>
</table>
What are the total hours needed to complete the program?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>126</td>
<td>122</td>
</tr>
</tbody>
</table>

Scheduled Program Review Date

<table>
<thead>
<tr>
<th></th>
<th>2017-2018</th>
<th>2020-2021</th>
</tr>
</thead>
</table>

Program Goals and Objectives

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Program Educational Objectives

For the B.S. degree program in computer science, the following set of program educational objectives describe what graduates are expected to attain within a few years after graduation.

1. Enhance Arkansas’ and the nation’s information technology industry.
2. Engage in advanced study of Computer Science and other fields, including engineering, law, medicine, and business.
3. Possess a sufficiently broad education to be inquisitive, well-informed reasoning members of their profession and society.
4. Understand human, social and ethical issues so that they will be good employees or employers, citizens and neighbors.
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Learning Outcomes

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Student Learning Outcomes

CS1. An ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
CS2. An ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
CS3. An ability to communicate effectively in a variety of professional contexts.
CS4. An ability to recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.
CS5. An ability to function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
CS6. An ability to apply computer science theory and software development fundamentals to produce computing-based solutions.
```
### Description and justification of the request

Removed sentence giving program description rather than requirements | Separating requirements from description.

Replace CSCE Elective with CSCE 4753 Computer Networks.

Remove 4 hours of Basic Science Elective with lab.

COMM 1313 moved to Spring semester.

Replace INEG 2313 with INEG 3313. This formalizes CAC of ABET requirement for CS programs to have topics on "principles and practices for secure computing" and "networking and communications". CAC of ABET only requires six credit hours in natural science course work and must include laboratory work. BS in CS program still requires CHEM 1103 University Chemistry I, PHYS 2054 University Physics I, and a choice of either PHYS 2074 University Physics II or CHEM 1133/1131L. Only freshman are permitted to enroll in COMM 1313 in fall semesters.

INEG developed a new course, INEG 3313, for non-majors and the CS program has voted to replace INEG 2313 with INEG 3313. However, the INEG 3313 is in the approval chain and I cannot add it yet.

### Reviewer Comments

agriffin - Thu, 19 Sep 2019 15:32:15 GMT - Confirmed INEG 3313 is in approval process. Replaced course code with course code and course title to help clarify the name of the course in the catalog copy. Also removed pending language so as not to appear in the catalog.

agriffin - Thu, 19 Sep 2019 15:46:41 GMT - Rollback: Please insert your program goals and student learning outcomes into the template.

### Program Goals and Objectives

1. To prepare graduates to successfully pursue careers in space and planetary sciences in academia, government and industry.
2. To prepare graduates to approach problems in space and planetary sciences from an interdisciplinary perspective.
3. To produce graduates who will become leaders in space and planetary sciences.
| Learning Outcomes | NA | 1. Assimilate literature, refereed and unrefereed, to understand the state of previous work in a given area.  
2. Design experiments to prove or disprove hypotheses.  
3. To build and operate experimental equipment to be used in that assessment.  
4. Understand the information that can be gained from common analytical equipment and instruments.  
5. Defend the analysis of obtained data in a logical, detached manner.  
6. Understand how an understanding of the universe and the exploration of space benefits society and use skills obtained from the program to promote this interaction. |
| Description and justification of the request | Admin update for courses not found. | A program change was made previously without changing the total hours required. This change cleans that up. We also now provide a list of potential electives. We also cleaned up some catalog language. Catalog accuracy; requirements easier for students to understand. Changes in program administration required changes in catalog language. |
agriffin - Mon, 19 Aug 2019 14:18:37 GMT - Inserted Program Goals and Student Learning Outcomes, plus the scheduled program review date.  
agriffin - Fri, 30 Aug 2019 21:39:33 GMT - Deleted comment ‘Other Electives’ and moved SPAC 5161 up to Core Courses with permission from submitter.  
lkulcza - Fri, 30 Aug 2019 22:24:24 GMT - Adjusted submitter info for this proposal |