

## CIM Report Feb 5, 2018 10:00am

### Program Changes Pending Approval from Faculty Senate

Code	Field	Old Value	New Value
BENGBS	Reviewer Comments	<p>agriffin - Wed, 16 Dec 2015 20:43:25 GMT - Rollback: Please change reason for change to a minor change and resubmit.</p> <p>agriffin - Wed, 16 Dec 2015 22:22:05 GMT - Attached follow-up documentation per request of submitter.</p> <p>lkulcza - Thu, 07 Jan 2016 20:45:55 GMT - Checking on courses not found in 8 semester plan.</p> <p>lkulcza - Thu, 07 Jan 2016 21:57:06 GMT - Rollback: Rolling back for changes to 8 semester plan course information.</p> <p>ndennis - Wed, 13 Jan 2016 21:22:54 GMT - Added notation on the specific courses that were being deleted and added to the program</p> <p>agriffin - Wed, 20 Jan 2016 18:00:14 GMT - Inserted credit hours in the Eight Semester Plan for courses pending approval. This corrected the total hours to 128 credit hours (from 119). Also, inserted superscript number with footnotes to clean up catalog copy.</p> <p>lkulcza - Thu, 21 Jan 2016 00:18:44 GMT - All BENG courses "not found" are in approval process to be added fall 2016.</p>	<p>agriffin - Tue, 09 Jan 2018 19:56:46 GMT - Corrected CIP Code from 14.0301 to 14.4501. Change had been updated on ADHE list 10/2/2014. Code updated in UAConnect on 8/15/2017. Directed to correct the CourseLeaf record by Gary Gunderman.</p>
	Upload attachments	BSBE Program Change and Course Change Sent for UA Approval Chain Jan 7 2016.docx	

Description and justification of the request

Summary of Program Changes to BSBE |

|  
Proposed to be published in the 2016-2017 University of Arkansas Catalog of Studies. |

|  
1) Eliminate ELEG 3903 as a requirement and add a new required course: BENG 3663, Biological Engineering Methods II. |

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2) Adjust the senior design sequence adding one hour to BENG 4822 (to create BENG 4823) and splitting BENG 4813 into a separate 1-hour professionalism component (BENG 4831) and a 2-hour senior design component (BENG 4812). Inactivate BENG 4813 and BENG 4822 in the process. |

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3) Remove CHEM 3613 and 3611L and add 3 hours of technical elective. |

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The net change is: |

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+1 hour of engineering (-3 h ELEG + 4 h BENG) |

-1 hour of science/technical (-4 h chemistry + 3 h tech elective) |

+0 hours on the total program (remains at 128 hours). |

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Justification: |

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Our Academic Advisory Committee recommended improvements to the coverage of professionalism topics to include more workplace skills including conflict and change management. We decided to split-off the professionalism topics from the Senior Design course to better highlight the importance of these topics and to eliminate some confusion that had been expressed by students when the two were combined. Other feedback from the Academic Advisory Committee identified ELEG 3903 and advanced organic chemistry as being less critical to our current graduates. These were eliminated to allow more time to emerging skills (e.g., statistics and modeling) that we have had trouble covering in the old program. The existing Biological Engineering Methods course (BENG 2643) was basically split into two new three-hour courses to accommodate the expanded coverage. An additional technical elective was added to strengthen the ability of students to pursue a technical specialty. |

There are two parts to this request: \n\n(1) elimination of the degree requirement of BIOL 3863, General Ecology; \n\n| Due to varying student interests and career paths, not all of our students optimally benefit from taking BIOL 3863, General Ecology. \n\n

(2) The addition of a degree requirement of a 3 hour Biological Elective, selected from among a list of acceptable courses. A list of acceptable courses will be maintained by the department. At present, the courses we have chosen to populate the list are:\n\nBIOL 3863, General Ecology\nCSES 2203, Soil Science\nENSC 4023, Water Quality\nCHEM 3613, Organic Chemistry II\nCHEM 3813, Elements of Biochemistry\nBIOL 2533, Cell Biology. | The Biological Elective will give students some flexibility in choosing the required biological content (allowing some courses in addition to Ecology) to accommodate varying student interests and career paths.

Description and Justification  
for this request

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CIP Code	Agricultural Engineering.	Biological/Biosystems Engineering.
Effective Catalog Year	Fall 2016	Fall 2018
Program Goals and Objectives	<p>The educational objectives of the Biological Engineering program at the University of Arkansas are to produce graduates to:</p> <ol style="list-style-type: none"> <li>1) Successfully practice engineering involving the design and management of sustainable food, water, energy and related biological systems,</li> <li>2) Make valuable and sustained contributions that benefit employers, communities, Arkansas and the world, and</li> <li>3) Succeed in continuing professional development or graduate studies, as needed for professional growth.</li> </ol>	<p>The educational objectives of the Biological Engineering program at the University of Arkansas are to produce graduates to:</p> <ol style="list-style-type: none"> <li>1) Successfully practice engineering involving the design and management of sustainable food, water, energy and related biological systems,</li> <li>2) Make valuable and sustained contributions that benefit employers, communities, Arkansas and the world, and</li> <li>3) Succeed in continuing professional development or graduate studies, as needed for professional growth.</li> </ol>

Learning Outcomes	<p>In order to prepare graduates to attain our Educational Objectives, the following student outcomes were defined:</p> <p>a) An ability to apply knowledge of mathematics, science, and engineering.</p> <p>b) An ability to design and conduct experiments, as well as analyze and interpret data.</p> <p>c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.</p> <p>d) An ability to function on multidisciplinary teams.</p> <p>e) An ability to identify, formulate, and solve engineering problem.</p> <p>f) An understanding of professional and ethical responsibility.</p> <p>g) An ability to communicate effectively.</p> <p>h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</p> <p>i) A recognition of the need for, and an ability to engage in life-long learning.</p> <p>j) A knowledge of contemporary issues.</p> <p>k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</p>	<p>In order to prepare graduates to attain our Educational Objectives, the following student outcomes were defined:</p> <p>a) An ability to apply knowledge of mathematics, science, and engineering.</p> <p>b) An ability to design and conduct experiments, as well as analyze and interpret data.</p> <p>c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.</p> <p>d) An ability to function on multidisciplinary teams.</p> <p>e) An ability to identify, formulate, and solve engineering problem.</p> <p>f) An understanding of professional and ethical responsibility.</p> <p>g) An ability to communicate effectively.</p> <p>h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</p> <p>i) A recognition of the need for, and an ability to engage in life-long learning.</p> <p>j) A knowledge of contemporary issues.</p> <p>k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.</p>
Track(s) - Action		Action
Focused Stud(y/ies) - Action		Action
Does this proposal impact any courses from another College/School?	No	Yes
College(s)/School(s)		AFLS ARSC
What are the total hours needed to complete the program?		128

CHEGBS	Description and justification of the request	Correcting course titles and swapping two CHEG courses whose semester of offering changed.	Graduation requirements are being changed so that all students complete at least 30 hours of Chemical Engineering (CHEG) courses at the U of A.   Currently, transfer students could earn a degree in Chemical Engineering by completing 30 hours of 3000-4000 level classes, but these classes do not have to be specific to the major.
	Description and Justification for this request	Correcting course titles and swapping two CHEG courses whose semester of offering changed.	
	Effective Catalog Year	Fall 2015	Fall 2018
	Track(s) - Action		Action
	Focused Stud(y/ies) - Action		Action
	What are the total hours needed to complete the program?		128
	Reviewer Comments		ndennis - Fri, 17 Nov 2017 13:37:09 GMT - added Fayetteville to be clear about the university campus the courses must be taken at.
CSCEBA	Scheduled Program Review Date	NA	2024-2025
	Description and justification of the request	Added general requirements that were accidentally dropped when the CSCE programs were split into tabs.	We are adding CSCE 3513 Software Engineering and CSCE 3613 Operating Systems as required courses and removing 6 hours of CSCE elective courses.   Changes of this nature were suggested in a recent program review of the BA program.
	Description and Justification for this request	Added general requirements that were accidentally dropped when the CSCE programs were split into tabs.	
	Effective Catalog Year	Fall 2014	Fall 2018
	Program Goals and Objectives	NA	Program Goals for the BA degree in Computer Science Computer Science graduates will: Enhance Arkansas' and the nation's information technology industry. Engage in advanced study of Computer Science and other fields, including engineering, law, medicine, and business. Possess a sufficiently broad education to be inquisitive, well-informed reasoning members of their profession and society. Understand human, social and ethical issues so that they will be good employees or employers, citizens and neighbors.
	Learning Outcomes	NA	BA Student learning outcomes: Posses an ability to apply knowledge of computing and mathematics appropriate to the discipline. Possess an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. Possess an ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs. Possess an understanding of professional, ethical, legal, security and social issues and responsibilities. Possess an ability to communicate effectively with a range of audiences.
	Track(s) - Action		Action
	Focused Stud(y/ies) - Action		Action
	What are the total hours needed to complete the program?		120

	Reviewer Comments		ndennis - Tue, 12 Dec 2017 19:08:44 GMT - Rollback: please list all program goals and objectives. agriffin - Thu, 14 Dec 2017 14:56:16 GMT - Updated program review date.
EGEDBA	Added		
ELEGMS	Percent Online	100%	100% with No Required Campus Component
	Scheduled Program Review Date	N/A	2023-2024
	Reviewer Comments	<p>Ikulcza - Thu, 11 Sep 2014 22:55:15 GMT - Attempting to fix strange misspelled word in first line of the program requirements text.</p> <p>Ikulcza - Thu, 16 Oct 2014 14:00:37 GMT - Rollback: Need to administratively roll this back in order to add online delivery method. This is already an ADHE approved delivery method, so just updating the information in the system so that it is correctly reflected in future.</p> <p>Ikulcza - Thu, 16 Oct 2014 14:19:20 GMT - Program proposal is now where it should be in approval process, based on the fact that it went through the previous approvals in paper format. Proposal should be on next Faculty Senate agenda.</p>	<p>ndennis - Wed, 17 May 2017 19:41:32 GMT - Rollback: You have eliminated entirely the requirement to have a BS degree in electrical engineering, much less from a ABET accredited program. You have eliminated the requirement for professional experience beyond the BS degree.</p> <p>pkoski - Wed, 24 May 2017 21:15:54 GMT - Rollback: Rolled back at the request of Connie Howard</p> <p>agriffin - Fri, 26 May 2017 14:45:35 GMT - Rollback: Please review location of requested change. It appears to be an admission requirement.</p> <p>agriffin - Thu, 14 Sep 2017 21:00:15 GMT - Changed effective date from fall 2014 to fall 2018. Selected course delivery mode and course interaction method, as well as entered total number of hours and program review date. College is encouraged to review and edit as appropriate (fields were required to make any edits).</p> <p>Ikulcza - Mon, 25 Sep 2017 22:39:42 GMT - Updated online delivery selected to reflect no required on campus component.</p> <p>jbalda - Fri, 29 Sep 2017 16:23:36 GMT - Rollback: COE Academic Committee</p>
	Effective Catalog Year	Fall 2014	Fall 2018
	Track(s) - Action		Action
	Focused Stud(y/ies) - Action		Action
	What are the total hours needed to complete the program?		30
	Course delivery mode		online
	Class interaction mode		email
	List institutions in the surrounding region offering similar programs		N/A
	Description and justification of the request		Allowing for automatic waiver of GRE requirement for students seeking M.S.E.E. through distance education. Electrical Engineering faculty voted in favor of allowing this waiver. This will allow applications to be processed without a waiver having to be requested each time. Most students applying for the M.S.E.E. through distance education meet one or both of these requirements.   Justification was provided in description prior to system upgrade.
HSESPH-PDGY	Effective Catalog Year	Fall 2016	Fall 2018
	Concentration(s):	EDT   PDGY   Pedagogy	EDT   PDGY   Kinesiology Pedagogy

	Program Goals and Objectives	Students graduating from the HSESPH program will be:  Prepared to conduct independent scholarly activity.  Familiar with classroom instructional techniques.  Demonstrate ability to be independent critical thinkers.	na
	Learning Outcomes	Students graduating from the HSESPH program will:  Complete a major independent research project under the guidance of a dissertation committee.  Demonstrate understanding and comprehension of current academic literature in a specific concentration.	na
	Description and justification of the request	Admin correction to concentration name.	Replacing 9 hours of Pedagogy core with PHED 5253 and PHED 5273, as well as 3 additional hours of electives.   Better prepares PhD students for the settings in which they will work.
	Track(s) - Action		Action
	Focused Stud(y/ies) - Action		Action
	What are the total hours needed to complete the program?		54
	Reviewer Comments		agriffin - Fri, 10 Mar 2017 22:19:31 GMT - Due to the approval timeline to meet catalog copy, changed the effective date to fall 2018. agriffin - Fri, 10 Mar 2017 22:21:13 GMT - Rollback: Changing the name of a concentration is a major change and requires an LON 1 to be submitted along with the request. agriffin - Mon, 06 Nov 2017 21:35:04 GMT - Changed concentration title field from Pedagogy to Kinesiology Pedagogy to match program title field with permission from S. Dittmore. This language is consistent with the LON that was submitted in 2016. No request to change concentration is being submitted. This is an administrative change to correct the records. Only a minor program change is being submitted with this current request.
PHEDME	Percent Online	100%	100% with No Required Campus Component
	Description and justification of the request	admin update of delivery methods previously approved	(1) Replace ESRM 5393 with PHED 5803; (2) Remove 6 hours of electives and replace with PHED 5553 and PHED 5313; and (3) Replace KINS 605V with PHED 6723 Project Implementation and Data Analysis (the course is in the approval process)   New courses better meet the needs of students by focusing on physical education assessments.
	Description and Justification for this request	admin update of delivery methods previously approved	
	Effective Catalog Year	Summer 2014	Fall 2018
	Program Delivery Method	On Campus Online/Web-based	Online/Web-based
	Track(s) - Action		Action
	Focused Stud(y/ies) - Action		Action
	What are the total hours needed to complete the program?		33
	Course delivery mode		online

	Class interaction mode		bulletin
	Reviewer Comments		<p>kramisei - Fri, 03 Nov 2017 13:53:51 GMT  - Rollback: Should the required KINS 605V Independent Study be 3 credit hours to make sure that the total number of hours required for the degree add up to 33?</p> <p>Ikulcza - Wed, 22 Nov 2017 00:01:48 GMT - PHED  cours.e "not found" currently in approval process for 2018</p> <p>Ikulcza - Fri, 15 Dec 2017 23:27:01 GMT - Admin  update to program delivery method, per prior documentation showing that online delivery was approved by ADHE back in 2007-2008. Program eliminated on-campus delivery method at that point.</p>
SSEDBA		Added	