## Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

## Change Program Proposal Form

Department:	AAA	
Biology		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate	O Minor	Academic Rules
Program)	் Certificate	ं Other
ं Comprehensive Major	ි Certification	
Option		•
Title of Program Affected:		

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Biology (Non-Comprehensive) (BA)			( (
Major Requirements BIO 121(4), 122(4), 235(4), 310(5) or 320(4), Select elective courses in biology to total a ror higher courses. Electives may be selected students to select electives to emphasize and of emphasis include pre-health studies (pre-cell/molecular biology, environmental/conselaso possible.  Related Requirements: CHM 201(3) and 202(or PHY 203(5) and 204(5); MTH 261(5) or 28 Public Affairs Capstone Experience will be for additional course from the following: BIO 30 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(575(3), 576(3), 577(3), 578(4), 579(4), 584(3), in biology.  Minor Required (or second major) Specific Requirements for Bachelor of Arts Disection of catalog General Baccalaureate Degree Requirements catalog	minimum of 32 hours and include at least 12 from one of the following emphases. Advisor cas that best meet their interest and career go medical, pre-veterinary, pre-physical therapy, ivation biology, and zoology, but other areas 2), or CHM 342(5) and 343(5) or 344(3); PHY 37(3) affilled by completion of BIO 369(4) and 494(10(1), 355(4), 370(4), 373(3), 398(1), 399(1-3), 4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 56 589(3). Course may also be used to satisfy the egree - see Specific Bachelor of Arts Degree Featurer ovide the revised description in the text area below [	hours of 300 level s can assist bals. Popular areas etc.), microbiology, of emphasis are  123(4) and 1,24(4)  1) and one 485(1-3),498(3), 1(2), 573(3), 574(2), e elective courses  Requirements  Not Attached  strikethrough all deletions and insert/bold nev	v information - any
+ + B / S	rmatting; please review prior to submission] OR prov	act as an electricity	h=800
Attached			all
What is changing? Check all boxes that app	<b>ly:</b>		
□ Title change	☐ From option to program (major)	Other	
☑ Course changes of under 18 hours	☐ From program (major) to option		
☐ Course changes of 18 hours or more			
Reason for Proposed Change:			
	ourses BIO 367(3) and 368(1). The course ch portions into separate courses, which will all e class on-line.	doward Contract Contr	

What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

2/28/2017 9:48 AM

#### 02/17/2017

**Current Status:** 

College Council Review

Proposal Progress:

02/23/2017 - Submitted by Department Head (S Mathis)

Review Comments:

02/23/2017 - Department Head Review - S Mathis - The new course proposals are also being submitted. The changes do not result in any changes in number of required hours.



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#### **Biology (Non-Comprehensive) (BA)**

Bachelor of Arts

- A. General Education Requirements see <u>General Education Program and Requirements</u> section of catalog
- B. Major Requirements
- 1. <u>BIO 121(4)</u>, <u>122(4)</u>, <u>235(4)</u>, <u>310(5)</u> or <u>320(4)</u>, <u>369(4)</u>**367(3)**, **368(1)**, <u>494(1)</u>, <u>550(3)</u>
- 2. Select elective courses in biology to total a minimum of 32 hours and include at least 12 hours of 300 level or higher courses. Electives may be selected from one of the following emphases. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
- 3. Related Requirements: <u>CHM 201(3)</u> and <u>202(2)</u>, or <u>CHM 342(5)</u> and <u>343(5)</u> or <u>344(3)</u>; <u>PHY 123(4)</u> and <u>124(4)</u> or <u>PHY 203(5)</u> and <u>204(5)</u>; <u>MTH 261(5)</u> or <u>287(3)</u>
- 4. Public Affairs Capstone Experience will be fulfilled by completion of BIO 369(4) 367(3), 368(1), and 494(1) and one additional course from the following: BIO 300(1), 355(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Course may also be used to satisfy the elective courses in biology.
- C. Minor Required (or second major)
- D. Specific Requirements for Bachelor of Arts Degree see <u>Specific Bachelor of Arts Degree</u> <u>Requirements</u> section of catalog
- E. General Baccalaureate Degree Requirements see <u>General Baccalaureate Degree</u> Requirements section of catalog

## Curricular Action Workflow





## Change Program Proposal Form

Submitted on 02/23/2017 by S Ma	athis ( <u>Aliciamathis@r</u>	nissouristate.edu).
Department:		
Biology and the Biology		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate	O Minor	○ Academic Rules
Program)	© Certificate	Other •
Comprehensive Major	ं Certification	
Option Option		
Title of Program Affected:		
Biology-BS-Minor Required		

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Biology (Non-Comprehensive) (BS)			 
Major Requirements BIO 121(4), 122(4), 235(4), 310(5) or 320(4) Select elective courses in biology to total or higher courses. Advisors can assist studinterest and career goals. Popular areas of pre-physical therapy, etc.), microbiology, cology, but other areas of emphasis are a Public Affairs Capstone Experience will be additional course from the following: BIO 499(1-3), 501(2), 505(3), 508(3), 509(4), 51 575(3), 576(3), 577(3), 578(4), 579(4), 584(4) in biology.  Related Requirements: CHM 201(3) and 20 or PHY 203(5) and 204(5); MTH 261(5) or 3 Minor Required (or second major) General Baccalaureate Degree Requirementatalog	a minimum of 36 hours and include at least 12 fents to select electives to emphasize areas that emphasis include pre-health studies (pre-mediell/molecular biology, environmental/conservatiso possible fulfilled by completion of BIO 369(4) and 494(300(1), 355(4), 370(4), 373(3), 398(1), 399(1-3), 1(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 563), 589(3). Course may also be used to satisfy the 2(2), or CHM 342(5) and 343(5) or 344(3); PHY 287(3).	hours of 300-level t best meet their cal, pre-veterinary, on biology, and  1) and one 485(1-3), 498(3), 1(2), 573(3), 574(2), e-elective courses  123(4) and 124(4)	any
ontent that is copied and pasted will lose existing	formatting; please review prior to submission] OR prov	ide as an attachment below)	
ittached		44.14.00.00.00.00.00.00.00.00.00.00.00.00.00	
Vhat is changing? Check all boxes that ap	ply:	•	
Title change	☐ From option to program (major)	O Other	2.72.51
Course changes of under 18 hours  Course changes of 18 hours or more	□ From program (major) to option		
eason for Proposed Change:		umaris.aetaintassumaatassa araakumii HISERI (PMI) HII (PHI) PHI) (PHI) PHI) (PHI)	::184
	courses BIO 367(3) and 368(1). The course ch y portions into separate courses, which will allo the class on-line.	Maria and the second of the se	
/hat is the date that this new program wa	s approved by departmental or program facul	lty? (MM/DD/YYYY)	
02/17/2017			
urrent Status			

2 of 3

College Council Review

Proposal Progress:

02/23/2017 - Submitted by Department Head (S Mathis)

**Review Comments:** 

02/23/2017 - Department Head Review - S Mathis - The new course proposals are also being submitted. The changes do not result in any changes in number of required hours.



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#### Biology (Non-Comprehensive) (BS)

Bachelor of Science

- A. General Education Requirements see <u>General Education Program and Requirements</u> section of catalog
- B. Major Requirements
- 1. <u>BIO 121(4)</u>, <u>122(4)</u>, <u>235(4)</u>, <u>310(5)</u> or <u>320(4)</u>, <u>369(4)</u> **367(3)**, **368(1)**, <u>494(1)</u>, <u>550(3)</u>
- 2. Select elective courses in biology to total a minimum of 36 hours and include at least 12 hours of 300-level or higher courses. Advisors can assist students to select electives to emphasize areas that best meet their interest and career goals. Popular areas of emphasis include pre-health studies (pre-medical, pre-veterinary, pre-physical therapy, etc.), microbiology, cell/molecular biology, environmental/conservation biology, and zoology, but other areas of emphasis are also possible.
- 3. Public Affairs Capstone Experience will be fulfilled by completion of <u>BIO 369(4)</u> 367(3), 368(1) and <u>494(1)</u> and one additional course from the following: <u>BIO 300(1)</u>, 355(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Course may also be used to satisfy the elective courses in biology.
- 4. Related Requirements: <u>CHM 201(3)</u> and <u>202(2)</u>, or <u>CHM 342(5)</u> and <u>343(5)</u> or <u>344(3)</u>; <u>PHY 123(4)</u> and <u>124(4)</u> or <u>PHY 203(5)</u> and <u>204(5)</u>; <u>MTH 261(5)</u> or <u>287(3)</u>
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements see <u>General Baccalaureate Degree</u> <u>Requirements</u> section of catalog



#### Curricular Action Workflow



## Change Program Proposal Form

Submitted on 02/23/2017 by S M	athis ( <u>Aliciamathis@</u>	Dmissouristate.edu).
Department:		
Biology		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate	O Minor	○ Academic Rules
Program)	○ Certificate	○ Other
© Comprehensive Major	ි Certification	
Option		
Title of Program Affected:		
Biology/Environmental Biology and Evolution	n-BS March 197	

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Biology (Comprehensive) (BS)

Bachelor of Science

General Education Requirements - see General Education Program and Requirements section of catalog Major Requirements

BIO 121(4), 122(4), 235(4), 494(1), 550(3)

PHY 123(4) and 124(4) or PHY 203(5) and 204(5)

MTH 138(5) or 181(3), or eligibility for MTH 261 on mathematics placement test

BIO 310(5) or 320(4) or 361(4) or 544(4); consult options below before selecting course

CHM 116(4) and 117(1), or CHM 160(4) and 161(1); consult options below before selecting course

CHM 201(3) and 202(2), or CHM 302(5) or 342(5); consult options below before selecting course

Public Affairs Capstone Experience will be fulfilled by completion of BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), 369(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Courses may also be used to satisfy option requirements.

Complete requirements in one of the following options. Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.

Environmental Biology and Evolution (71-85 hours total)

Required courses: BIO 369(4), 515(3)

Complete courses in biodiversity and evolution totaling at least 3 hours from the following: BIO 334(3), 339(2), 370(4), 371(3), 380(5), 530(3), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534(2), 535(1), 555(3), 556(3), 587(3), 588(3)

Complete courses in population biology totaling at least 3 hours from the following: BIO 436(4), 505(3), 532(3), 540(4), 560(3), 563(3), 567(4), 578(4), 584(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 557(2), 558(2)

Complete courses in community/ecosystem biology totaling at least 3 hours from the following: BIO 373(3), 485(1-3), 508(3), 509(4), 533(3), 539(2), 547(3), 562(4), 579(4); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 537(2), 538(2), 565(3), 566(2)

Students must take at least one biology course with a substantial field component. A course used to satisfy this requirement also may be counted toward the blodiversity, population biology, and community/ecosystem biology concentration areas described above. Complete one of the following: BIO 334(3), 339(2), 370(4), 436(4), 509(3), 527(1-4), 562(4), 574(2), 575(3), 576(3), 577(3), any biology course taught at the Gulf Coast Research Laboratory, any biology course taught at the Bull Shoals Field station or another field station (with the approval of your

Complete 0-7 hours of elective BIO courses at the level of 300 or higher to total a minimum of 43 hours in biology

Complete at least one of the following related requirements in Mathematics, Statistics, or Computer programming: MTH 261(5) or 287(3) or 546(3) or 547(3) or CSC 125(4) or CSC 130(3) or BIO 551(2) or PSY 527(3)

Related requirements in Chemistry: CHM 160(4), 161(1), 170(3), 171(1)

Complete one of the following related science courses: AGN 215(3), ANT 375(3); CHM 260(3) or 460(3); GLG 171(3), GRY 351(3)

Complete one of the following from related fields of study: ECO 540(3), LAW 537(3), PHI 302(3), PLS 555(3), PSY 379(3)

Attached

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] OR provide as an attachment below)

I S

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Attached		(ii - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
What is changing? Check all boxes that a	pply:		
☐ Title change	☐ From option to program (major)	Other	agramaticant continuos)
☐ Course changes of under 18 hours	☐ From program (major) to option		
☑ Course changes of 18 hours or more			
Reason for Proposed Change:			
splitting the lecture and laboratory portion lecture portion of the class on-line.	ns into separate courses, which will allow the de	partment to offer the	
lecture portion of the class on-line.	ns into separate courses, which will allow the de		Q16000000000000000000000000000000000000
lecture portion of the class on-line.			
lecture portion of the class on-line.			
lecture portion of the class on-line.  What is the date that this new program w			
lecture portion of the class on-line.  What is the date that this new program w  02/17/2017  Current Status:			
lecture portion of the class on-line.  What is the date that this new program w 02/17/2017  Current Status:  College Council Review	as approved by departmental or program facu		
lecture portion of the class on-line.  What is the date that this new program w  02/17/2017  Current Status:  College Council Review  Proposal Progress:	as approved by departmental or program facu		



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#### Biology (Comprehensive) (BS)

Bachelor of Science

- A. General Education Requirements see <u>General Education Program and Requirements</u> section of catalog
- B. Major Requirements
- 1. <u>BIO 121(4)</u>, <u>122(4)</u>, <u>235(4)</u>, <u>494(1)</u>, <u>550(3)</u>
- 2. PHY 123(4) and 124(4) or PHY 203(5) and 204(5)
- 3. MTH 138(5) or 181(3), or eligibility for MTH 261 on mathematics placement test
- 4.  $\underline{BIO 310}(5)$  or  $\underline{320}(4)$  or  $\underline{361}(4)$  or  $\underline{544}(4)$ ; consult options below before selecting course
- 5. CHM 116(4) and 117(1), or CHM 160(4) and 161(1); consult options below before selecting course
- 6. CHM 201(3) and 202(2), or CHM 302(5) or 342(5); consult options below before selecting course
- 7. Public Affairs Capstone Experience will be fulfilled by completion of <u>BIO 494(1)</u> and two additional courses from the following: <u>BIO 300(1)</u>, <u>355(4)</u>, <u>369(4)</u>367, 368, <u>370(4)</u>, <u>373(3)</u>, <u>398(1)</u>, <u>399(1-3)</u>, <u>485(1-3)</u>, <u>498(3)</u>, <u>499(1-3)</u>, <u>501(2)</u>, <u>505(3)</u>, <u>508(3)</u>, <u>509(4)</u>, <u>511(4)</u>, <u>512(3)</u>, <u>520(3)</u>, <u>527(1-4)</u>, <u>539(2)</u>, <u>547(3)</u>, <u>561(2)</u>, <u>573(3)</u>, <u>574(2)</u>, <u>575(3)</u>, <u>576(3)</u>, <u>577(3)</u>, <u>578(4)</u>, <u>579(4)</u>, <u>584(3)</u>, <u>589(3)</u>. Courses may also be used to satisfy option requirements.
- 8. Complete requirements in one of the following options\*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.

#### a. Environmental Biology and Evolution (71-85 hours total)

- 1. Required courses: <u>BIO 369(4)</u> 367, 368, <u>515(3)</u>
- 2. Complete courses in biodiversity and evolution totaling at least 3 hours from the following: <u>BIO 334(3)</u>, 339(2), 370(4), 371(3), 380(5), 530(3), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: <u>BIO 534(2)</u>, 535(1), 555(3), 556(3), 587(3), 588(3)
- 3. Complete courses in population biology totaling at least 3 hours from the following: <u>BIO</u> 436(4), 505(3), 532(3), 540(4), 560(3), 563(3), 567(4), 578(4), 584(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: <u>BIO</u> 557(2), 558(2)
- 4. Complete courses in community/ecosystem biology totaling at least 3 hours from the following: <u>BIO 373(3)</u>, <u>485(1-3)</u>, <u>508(3)</u>, <u>509(4)</u>, <u>533(3)</u>, <u>539(2)</u>, <u>547(3)</u>, <u>562(4)</u>, <u>579(4)</u>; the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: <u>BIO 537(2)</u>, <u>538(2)</u>, <u>565(3)</u>, <u>566(2)</u>
- 5. Students must take at least one biology course with a substantial field component. A course used to satisfy this requirement also may be counted toward the biodiversity, population biology, and community/ecosystem biology concentration areas described above. Complete one of the following: BIO 334(3), 339(2), 370(4), 436(4), 509(3), 527(1-4), 562(4), 574(2), 575(3), 576(3), 577(3), any biology course taught at the Gulf Coast Research
  - 4), <u>562</u>(4), <u>574</u>(2), <u>575</u>(3), <u>576</u>(3), <u>577</u>(3), any biology course taught at the Gulf Coast Research Laboratory, any biology course taught at the Bull Shoals Field station or another field station (with the approval of your advisor)
- 6. Complete 0-7 hours of elective BIO courses at the level of 300 or higher to total a minimum of 43 hours in biology

- 7. Complete at least one of the following related requirements in Mathematics, Statistics, or Computer programming: MTH 261(5) or 287(3) or 546(3) or 547(3) or CSC 125(4) or CSC 130(3) or BIO 551(2) or PSY 527(3)
- 8. Related requirements in Chemistry: <u>CHM 160(4)</u>, <u>161(1)</u>, <u>170(3)</u>, <u>171(1)</u>
- 9. Complete one of the following related science courses: <u>AGN 215(3)</u>, <u>ANT 375(3)</u>; <u>CHM 260(3)</u> or <u>460(3)</u>; <u>GLG 171(3)</u>, <u>GRY 351(3)</u>
- 10. Complete one of the following from related fields of study: ECO 540(3), LAW 537(3), PHI 302(3), PLS 555(3), PSY 379(3)



#### Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

## Change Program Proposal Form

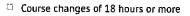
Department:		
Biology		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate	O Minor	○ Academic Rules
Program)	O Certificate	Other
Comprehensive Major	ି Certification	
Option Option		
•		

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Biology (Comprehensive) (BS)	. 4
Bachelor of Science  General Education Requirements - see General Education Program and Requirements section of catalog — Major Requirements	
BIO 121(4), 122(4), 235(4), 494(1), 550(3) PHY 123(4) and 124(4) or PHY 203(5) and 204(5) MTH 138(5) or 181(3), or eligibility for MTH 261 on mathematics placement test BIO 310(5) or 320(4) or 361(4) or 544(4); consult options below before selecting course CHM 116(4) and 117(1), or CHM 160(4) and 161(1); consult options below before selecting course CHM 201(3) and 202(2), or CHM 302(5) or 342(5); consult options below before selecting course Public Affairs Capstone Experience will be fulfilled by completion of BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), 369(4), 370(4), 373(3), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(4), 584(3), 589(3). Courses may also be used to satisfy option requirements. Complete requirements in one of the following options*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.	
Wildlife Biology (67-87 hours total)	
Required courses: BIO 320(4) or 361(4), 369(4)  Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4)  Complete three courses in animal biology from: BIO 370(4), 371(3), 380(5), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3)  Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 509(4), 532(3), 562(4), 589(3)  Complete two courses in ecology and evolution from: BIO 436(4), 515(3), 539(2), 563(3), 567(4), 578(4), 579(4), 584(3)  Complete one course in human dimensions from the following: AGN 335(3), BIO 547(3), BIO 561(2), CRM 210(3), ECO 540(3), GRY 108(3), GRY 351(2), PHI 302(3), PLS 555(3), LAW 537(3)  Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)  General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog	Not Attached
Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all dele content that is copied and pasted will lose existing formatting; please review prior to submission] OR provide as an attachment	•
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Attached	afi
What is changing? Check all boxes that apply:	
☐ Title change ☐ From option to program (major) ☐ Other	

91	Course	channes	of under	18 hours
40.0	Course	Cildilues	oi uiluei	TO HOURS

☐ From program (major) to option





Reason for Proposed Change:

Deletion of BIO 369(4) and addition of new courses BIO 367(3) and 368(1). The course changes are the result of splitting the lecture and laboratory portions into separate courses, which will allow the department to offer the lecture portion of the class on-line.

What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

02/17/2017

**Current Status:** 

College Council Review

Proposal Progress:

02/23/2017 - Submitted by Department Head (S Mathis)

**Review Comments:** 

02/23/2017 - Department Head Review - S Mathis - The new course proposals are also being submitted. The changes do not result in any changes in number of required hours.



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#### Biology (Comprehensive) (BS)

Bachelor of Science

- A. General Education Requirements see <u>General Education Program and Requirements</u> section of catalog
- B. Major Requirements
- 1. <u>BIO 121(4)</u>, <u>122(4)</u>, <u>235(4)</u>, <u>494(1)</u>, <u>550(3)</u>
- 2. PHY 123(4) and 124(4) or PHY 203(5) and 204(5)
- 3. MTH 138(5) or 181(3), or eligibility for MTH 261 on mathematics placement test
- 4. BIO 310(5) or 320(4) or 361(4) or 544(4); consult options below before selecting course
- 5. CHM 116(4) and 117(1), or CHM 160(4) and 161(1); consult options below before selecting course
- 6. CHM 201(3) and 202(2), or CHM 302(5) or 342(5); consult options below before selecting course
- 7. Public Affairs Capstone Experience will be fulfilled by completion of <u>BIO 494(1)</u> and two additional courses from the following: <u>BIO 300(1)</u>, <u>355(4)</u>, <u>369(4)</u>367(3),

**368(1)**, <u>370(4)</u>, <u>373(3)</u>, <u>398(1)</u>, <u>399(1-3)</u>, <u>485(1-3)</u>, <u>498(3)</u>, <u>499(1-</u>

- 3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-
- 4), <u>539</u>(2), <u>547</u>(3), <u>561</u>(2), <u>573</u>(3), <u>574</u>(2), <u>575</u>(3), <u>576</u>(3), <u>577</u>(3), <u>578</u>(4), <u>579</u>(4), <u>584</u>(3), <u>589</u>(3).

Courses may also be used to satisfy option requirements.

- 8. Complete requirements in one of the following options\*: Note: With approval of advisor, up to 3 hours of the following can be substituted for one of the BIO courses listed in any option: <u>BIO 300, 399, 499</u>, or <u>597</u>.
  - c. Wildlife Biology (67-87 hours total)
- 1. Required courses: <u>BIO 320(4)</u> or <u>361(4)</u>, <u>369(4)</u> <u>367(3)</u>, 368(1)
- 2. Complete two courses in plant biology from: <u>BIO 334(3)</u>, <u>339(2)</u>, <u>530(3)</u>, <u>544(4)</u>
- 3. Complete three courses in animal biology from: <u>BIO</u> 370(4), 371(3), 380(5), 571(4), 573(3), 574(2), 575(3), 576(3), 577(3)
- 4. Complete a minimum of 5 hours in management from: <u>BIO 373(3), 485(1-3), 509(4), 532(3), 562(4), 589(3)</u>
- 5. Complete two courses in ecology and evolution from: <u>BIO</u> 436(4), 515(3), 539(2), 563(3), 567(4), 578(4), 579(4), 584(3)
- 6. Complete one course in human dimensions from the following: <u>AGN 335(3)</u>, <u>BIO 547(3)</u>, <u>BIO 561(2)</u>, <u>CRM 210(3)</u>, <u>ECO 540(3)</u>, <u>GRY 108(3)</u>, <u>GRY 351(2)</u>, <u>PHI 302(3)</u>, <u>PLS 555(3)</u>, <u>LAW 537(3)</u>
- 7. Complete one course in earth/environmental science: <u>AGN 215(3)</u>, <u>CHM 260(3)</u>, <u>GLG 110(4)</u>, <u>GRY 142(4)</u>



#### Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

# Change Program Proposal Form

Department:	1. 31 94kbandana 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Biology		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate	Minor	O Academic Rules
Program)	○ Certificate	Other
ି Comprehensive Major	ි Certification	
Option Option		
Thoose All That Apply:		
□ Bachelor of Arts	D Bachelor of Music Education	☐ Bach of Science in Athl Traing
Bachetor of Applied Science	☐ Bachelor of Music	☑ Bach of Science in Education
□ Bachelor of Fine Arts	□ Bachelor of Science	☐ Bachelor of Science in Nursing
Bachelor of Social Work		
itle of Program Affected:		
Biology		
Current Catalog Description: (Either cut and pa		ide as an attachment below)
Bachelor of Science in Education (Non-Certif BIO 121(4), 122(4), 235(4), 320(4), and 369(4		Not Attached
	rovide the revised description in the text area below	[strikethrough all deletions and insert/bold new information - any

Biology Bachelor of Science in Education (Non-Cer BIO 121(4), 122(4), 235(4), 320(4), and	tifiable) 3 <del>69(4)</del> <b>367(3), 368(1</b> ).	
Not Attached		
		Total Hours: 20
What is changing? Check all boxes th	nat apply:	
Title change	From option to program (major)	☐ Other
Course changes of under 18 hours	☐ From program (major) to option	
Course changes of 18 hours or more	re	
Deletion of BJO 369(4) and addition of splitting the lecture and laboratory	f new courses BIO 367(3) and 368(1). The course chappers of the portions into separate courses, which will allow the in-line,	
Deletion of BIO 369(4) and addition of splitting the lecture and laboratory offer the lecture portion of the class of	portions into separate courses, which will allow the	department to
of splitting the lecture and laboratory offer the lecture portion of the class o	portions into separate courses, which will allow the in-line.	department to
Deletion of BJO 369(4) and addition of Splitting the lecture and laboratory offer the lecture portion of the class of the lecture portion of the class of the date that this new prograph of 17/2017	portions into separate courses, which will allow the in-line.	department to
Deletion of BIO 369(4) and addition of Splitting the lecture and laboratory offer the lecture portion of the class of the lecture portion of the class of the lecture portion	portions into separate courses, which will allow the in-line.	department to
Deletion of BIO 369(4) and addition of Splitting the lecture and laboratory offer the lecture portion of the class of the lecture portion of the class of the date that this new progra 02/17/2017  urrent Status:  pllege Council Review	portions into separate courses, which will allow the in-line.	department to
Deletion of BIO 369(4) and addition of splitting the lecture and laboratory offer the lecture portion of the class of that is the date that this new progra 12/17/2017.  Furrent Status: Follege Council Review	portions into separate courses, which will allow the in-line.  m was approved by departmental or program facul	department to
Deletion of BJO 369(4) and addition of Splitting the lecture and laboratory offer the lecture portion of the class of the	portions into separate courses, which will allow the in-line.  m was approved by departmental or program facul	department to



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## Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

## Change Program Proposal Form

Submitted on 02/24/2017 by S N Department:	Mathis ( <u>Aliciamathis@miss</u>	souristate.edu).
Biology.		
Type of Program Choose One:	and the second s	
O Major (Non-Comprehensive/Graduate	O Minor	<ul> <li>Academic Rules</li> </ul>
Program)	○ Certificate ·	○ Other
Comprehensive Major	ं Certification	
Option Option		
		•
Title of Program Affected:		
Wildlife Conservation and Management BI D	)epr.BS	

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

_	
Wildlife Conservation and Management (Comprehensive)	
Bachelor of Science This major is offered in cooperation with the Darr College of Agriculture,	
General Education Requirements - see General Education Program and Requirements sec Specific General Education Requirements: BIO 121(4); GLG 110(4); GRY 100(3); MTH 135( Major Requirements	
Agriculture Requirements:	
AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or 370(3); AGR 383(3)-advisor; AGR 490(1) Select two courses (4-6 hours) from: AGB 354(2); AGN 351(2); AGP 333(3), 485(3), 583(3) Biology Requirements:	course deleted-see
BIO 121(4), 122(4), 334(3), 339(2), 373(3)  Select one course from: BIO 369(4), 436(4), 562(4)  Select two courses from: BIO 573(3), 575(3), 577(3)  Public Affairs Capstone Experience will be fulfilled by completion of BIO 373(3) and two is from the following: BIO 300(1), 355(4), 370(4), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(2), 547(3), 561(2), 573(3), 574(2), 575(4), 579(4), 584(3), 589(3). Courses may also be counted toward the Biology requirement additional hours in Agriculture and/or Biology requirement.  Complete CHM 116(4) and 117(1), or CHM 160(4)  Select ten additional hours in Agriculture and/or Biology. An advisor must be contacted to requirements that would result in eligibility to be placed on federal and state registries in Social Science, Wildlife Biology, etc.  General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements at Baccalaureate Degree Requirements - see General	); 501(2); 505(3); (3), 576(3); 577(3); ents or ten  o'determine specific n Fisheries: Biology, ments section of:  Not Attached  [strikethrough all deletions and insert/bold new information - any
+ → B I S	
Attached	
What is changing? Check all boxes that apply:	
□ Title change □ From option to program (major)	□ Other
Course changes of under 18 hours	
Course changes of 18 hours or more	

Reason for Proposed Change:

Deletion of BIO 369(4) and addition of new courses BIO 367(3) and 368(1). The course changes are the result of splitting the lecture and laboratory portions into separate courses, which will allow the department to offer the lecture portion of the class on-line.



What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

02/17/2017

**Current Status:** 

College Council Review

Proposal Progress:

02/24/2017 - Submitted by Department Head (S Mathis)

**Review Comments:** 

No comments have been added to this proposal.



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#### Wildlife Conservation and Management (Comprehensive)

Bachelor of Science

This major is offered in cooperation with the Darr College of Agriculture.

A. General Education Requirements - see General Education Program and Requirements section of Specific General Education Requirements: BIO 121(4); GLG 110(4); GRY 100(3); MTH 135(3)

or 138(5)

- B. Major Requirements
- 1. Agriculture Requirements:
- a. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or 370(3); AGR 383(3)course deleted-see advisor; AGR 490(1)
- b. Select two courses (4-6 hours) from: <u>AGB 354(2)</u>; <u>AGN 351(2)</u>; <u>AGP 333(3)</u>, <u>485(3)</u>, <u>583(3)</u>
- 2. Biology Requirements:
- a. <u>BIO 121(4), 122(4), 334(3), 339(2), 373(3)</u>
- b. Select one courseoption from: <u>BIO 369(4)</u>367(3) and 368(1), 436(4), 562(4)
- c. Select two courses from: <u>BIO 573(3)</u>, 575(3), 577(3)
- d. Public Affairs Capstone Experience will be fulfilled by completion of BIO 373(3) and two additional course from the following: BIO 300(1), 355(4), 370(4), 398(1), 399(1-3), 485(1-3), 498(3), 499(1-3) 3), <u>501(2)</u>, <u>505(3)</u>, <u>508(3)</u>, <u>509(4)</u>, <u>511(4)</u>, <u>512(3)</u>, <u>520(3)</u>, <u>527(1-</u> 4), <u>539(2)</u>, <u>547(3)</u>, <u>561(2)</u>, <u>573(3)</u>, <u>574(2)</u>, <u>575(3)</u>, <u>576(3)</u>, <u>577(3)</u>, <u>578(4)</u>, <u>579(4)</u>, <u>584(3)</u>, <u>589(3)</u>.

Courses may also be counted toward the Biology requirements or ten additional hours in Agriculture and/or Biology requirement.

- 3. Complete <u>CHM 116(4)</u> and <u>117(1)</u>, or <u>CHM 160(4)</u>
- 4. Select ten additional hours in Agriculture and/or Biology. An advisor must be contacted to determine specific requirements that would result in eligibility to be placed on federal and state registries in Fisheries Biology, Social Science, Wildlife Biology, etc.
- C. General Baccalaureate Degree Requirements see General Baccalaureate Degree Requirements section of catalog



#### Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

change Course Proposal Fo	rm
Submitted on 02/24/2017 by S Mathis ( <u>Alician</u>	nathis@missouristate.edu).
`All fields require input	
This proposal applies to:	
® An existing COURSE	
An existing REGULAR (e.g. permanent) SECTION of a variable	e content course.
Existing Course:	
BIO122 General Biology II	
Vill this proposal need to be reviewed by EPPC?  No Yes  Current online catalog description:  BIO 122 General Biology II  Prerequisite: eligibility for both ENG 110 and MTH 135. Reco of two-semester introductory biology sequence for biology n of organisms including evolutionary history, diversity, structu  Cannot be taken Pass/Not Pass. A grade of "C" or better is rec  BIO 320, or BIO 369. 4(3-3) F.S  Levise the current online catalog description as needed: (Strikethrough a	najors and minors. Introduction to the biology are, and function of major taxa; and ecology.
♦ → B / S	
biology majors and minors. Introduction to the biology of organisms	ed Prerequisite: BIO 121. Second half of two-semester introductory biology sequence for including evolutionary history, diversity, structure, and function of major taxa; and ecology. In this course in order to take BIO 235, BIO 320, er BIO 369367 or 368. 4(3-3) F,5

What is changing? Check all boxes that apply.

O	Course Code		Course Number ( <u>Check Availability</u> )		Title	8	Prerequisite	
	Credit Hours/Contact Hours		Periodicity	ū	Description			
The			plitting the lecture and laboratory position of the cla		separate.			
			itudent learning evidence/outcomes)?					
	Routine or annual review/assessm	_	,,,,,,,	r. 24	Faculty Input	Printy B. J.	Student Input	
	Accreditation/certification complia	ince		a	Review of catalog	informatio	חס	
	Other (be specific):			7.7			(2005) (10.05)	
IJ	Check if this is a non-substantive of	hange.	.*					
What i	is the date that this course change w	as appro	ved by departmental or program faculty?	(MM/DD/YYY)	)	02/17	/2017	1. N.2.
urrent	t Status:							
ollege	Council Review							
roposi	al Progress:							
2/24/2	2017 - Submitted by Departmen	t Head	(S Mathis)					
Review	Comments:							
10 com	ments have been added to this	propos	al.		•			
					-		The second secon	



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#### Curricular Action Workflow



Computer Services

Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

*All fields require input  This proposal applies to:  An existing Course  An existing Course  BIO398 Laboratory Internship in Biology  Will this proposal need to be reviewed by CEBP?  No Yes  Will this proposal need to be reviewed by CEBP?  No Yes  Current online catalog description:  BIO 398 Laboratory Internship in Biology  Prerequisite: BSEd major in Biology Education, BiO 310 and BiO 369, and permission of instructor. This course provides the apportunity to earn academic credit through supervised Laboratory preparation and teaching: Graded Pass/Not Pass only. Public Affairs Capstone Experience course, 1(1-3) F.5  Revise the current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists information; place review piece to submission.)  **All Fields Revise the Current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists informating place review piece to submission.)  **All Fields Revise the Current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists information; place review piece to submission.)  **All Fields Revise the Current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists information; place review piece to submission.)  **All Fields Revise the Current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists information; place review piece to submission.)  **All Fields Revise the Current online catalog description as needed: (Strikethrough all deletions and Insert/bodd new Information. Any content that is copied and pasted will lose exists information; place review piece to submission.)  **All Fields Revise	ha	nge	Course :	Prop	osal Form				
This proposal applies to:  An existing COURSE  An existing REGULAR (e.g. permanent) SECTION of a variable content course.  Existing Course:  BiO398 Laboratory internship in Biology  Mill this proposal need to be reviewed by CGEIP?  No  Yes  Will this proposal need to be reviewed by GGEIP?  No  Yes  Current online catalog description:  BiO398 Laboratory internship in Biology  Perequisite. BSEd major in Biology  An existing Course by CGEIP?  No  Yes  Current online catalog description:  BiO398 Laboratory internship in Biology  Perequisite. BSEd major in Biology  An existing Course by Course by CGEIP?  No  Yes  Current online catalog description:  BiO398 Laboratory internship in Biology  An existing Course by	ubm	nitted or	n 02/24/2017	by S Ma	nthis ( <u>Aliciamathis@missou</u>	ıristate.e	du).		
An existing COURSE  An existing REGULAR (e.g. permanent) SECTION of a variable content course.  Existing Course:  BIO398 Laboratory Internship in Biology  Will this proposal need to be reviewed by CGEIP?  No  Yes  Will this proposal need to be reviewed by EPPC?  No  Yes  Will this proposal need to be reviewed by EPPC?  No  Yes  Current online catalog description:  BIO 398 Laboratory Internship in Biology  Euclidean Credit Introduction of Instruction This course provides the opportunity to earn academic credit Introduction and Instruction This course provides the opportunity to earn academic Credit Introduction and Instruction This course provides the opportunity to earn academic Credit Introduction and Instruction This Course Internship in Biology  Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing instruction. This course provides the opportunity to earn academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only. Public Affairs Capstone Experience course. 1(0-3) F;  What is changing? Check all boxes that apply.  Course Code  Course Number (Check Availability) Title Prerequisite	All fie	lds requir	e input					***************************************	
An existing REGULAR (e.g. permanent) SECTION of a variable content course.  Existing Course:  BIO358 Laboratory Internship in Biology  Will this proposal need to be reviewed by CGEIP?  No  Yes  Will this proposal need to be reviewed by EPPC? Yes  Will this proposal need to be reviewed by EPPC? Yes  Will this proposal need to be reviewed proposal need to be revie									
Existing Course:  **BiO398** Laboratory** Internship in Biology**  **Will this proposal need to be reviewed by CGEIP?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by EPPC?   **No   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be reviewed by CEIP?   **No   **Yes  **Will this proposal need to be review piot of the holds of th	٨	An existii	ng COURSE					·	
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BiO398 Laboratory Internship in Biology  Ill this proposal need to be reviewed by CGEIP? * No O Yes  While this proposal need to be reviewed by EPPC?  While this proposal need to be reviewed by EPPC?  While this proposal need to be reviewed by EPPC?  While this proposal need t					,				
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wrent online catalog description:  BIO 398.Laboratory Internship in Biology  Prerequisite: BSEd major in Biology Education, BIO 310 and BIO 369, and permission of instructor. This course provides the opportunity to earn academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only. Public Affairs Capstone Experience course. 1(0-3) F.S  evise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing please review prior to submission.)  A B S  BIO 398 Laboratory Internship in Biology  Prerequisite: BSEd major in Biology Education, BIO 310, and369367 and 368, and permission of instructor. This course provides the opportunity to earn academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only. Public Affairs Capstone Experience course. 1(0-3) F;  What is changing? Check all boxes that apply.  Course Code Course Number (Check Availability) Title prerequisite	31039	8 Laborati	ory internship in B	iology					
urrent online catalog description:  310 598 Laboratory Internship in Biology  Prerequisite: BSEd major in Biology Education, BIO 310 and BIO 369, and permission of instructor. This  course provides the opportunity to earn academic credit through supervised laboratory preparation and eaching: Graded Pass/Not Pass only. Public Affairs Capstone Experience course: 1(0-3) F.5  evise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing in the current on the current on the content of the current on the current of the current on the current of the current of the current on the current on the current of the current of the current of the current on the current of the curr	ill this	proposal ne	eed to be reviewed b	y CGEIP?	® No ○ Yes	•			
Prerequisite: BSEd major in Biology Education, BIO 310 and BIO 369, and permission of instructor. This course provides the opportunity to earn academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only. Public Affairs Capstone Experience course. 1(0-3):F.S.  evise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new Information. Any content that is copied and pasted will lose existin structing; please review prior to submission.)  A B S  BIO 398 Laboratory Internship in Biology  Prerequisite: BSEd major in Biology Education, BIO 310, and369367 and 368, and permission of instructor. This course provides the opportunity to earn academic credit through supervised laboratory preparation and teaching. Graded Pass/Not Pass only. Public Affairs Capstone Experience course. 1(0-3) F;  //hat is changing? Check all boxes that apply.  Course Code Course Number (Check Availability) Title Prerequisite	ill this	s proposal ne	eed to be reviewed b	у ЕРРС?	® No ○ Yes				
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## Curricular Action Workflow



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	ge C	ourse	Propo	osal Fo	rm				· ···· (11
Submitt	ed on (	)2/24/2017	by Rache	el Rigby ( <u>Ra</u>	achelRigby@	)MissouriSta	<u>ate.edu</u> ).		
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	Credit Hours/Contact Hours		Periodicity			Description			(C)
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	Accreditation/certification complia	nce			CI	Review of catalog	information		
	Other (be specific):								
	Check if this is a non-substantive c	hange.							
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College	Council Review								
Proposa	al Progress:								
02/24/2	2017 - Submitted by Department	: Head (	S Mathis)						
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#### Curricular Action Workflow



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	Course Proposal Form	
Submitt	n 02/24/2017 by Rachel Rigby ( <u>RachelRigby@MissouriState.edu)</u> .	
All fields		
his propo	ng COURSE	
O A	ng REGULAR (e.g. permanent) SECTION of a variable content course.	
xisting Co BIOSO9 S	Ecology, Programme Control of the Co	
ill this pro	eed to be reviewed by CGEIP? ® No 🤄 Yes	
ill this pro	eed to be reviewed by EPPC? ® No ① Yes	
urrent onli 310 509 S	og description: Ecology	
vaters, in he multip aboratory	369. Recommended Prerequisite: CHM 1.71 or higher. The Interdisciplinary study of running a study of the physical and chemical environment, trophic interactions, nutrient cycling, and study of the physical and chemical environment, trophic interactions, nutrient cycling, and sacts of humans on modifying these systems. Lectures, group discussion of readings, and eld exercises. One all-day Saturday field trip required. May be taught concurrently with BIO sive credit for both BIO 609 and BIO 509. Public Affairs Capstone Experience course. 4(2-4)	
	nline catalog description as needed; (Strikethrough all deletions and insert/bold new Information. Any content that is copied and pasted will lose existi w prior to submission.)	ng
<b>*</b> *	I &	
310 509 St	colagy	
210 203 31	369 367 and 368. Recommended Prerequisite: CHM 171 or higher. The interdisciplinary study of running waters, including study of th	

What is changing? Check all boxes that apply.

N	Course Code	in the second	Course Number (Check Availability)		Title	Ø	Prerequisite	(i)
Ü	Credit Hours/Contact Hours	a	Periodicity		Description			
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	Accreditation/certification compl	iance		Ð	Review of catalog	informatio	n ·	
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Curren	t Status:							
College	e Council Review						•	
Propos	al Progress:							
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Review	Comments:							
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Cha	ange	Со	urse	Prop	osal Form						
Sub	mitted o	n 02/	/24/2017	by Racl	nel Rigby ( <u>Rachell</u>	Rigby@Mis	souriSt	ate.edu).			-
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			atalog descrip to submission.)	ition as nee	ded: (Strikethrough all deletio	ns and insert/bold n	ew informati	on. Any content tha	t is copied and pas	ited will lose existin	ng
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Submi	tted on	02/24/2017	y Rachel Rigb	y (RachelR	igby@Misso	ouriStat <u>e.ed</u>	<u>u)</u> .		
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'All field	ds require	input							
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O	An existin	g REGULAR (e.g. pern	nanent) SECTION of a	variable conten	t course.				
Existing	Course:								
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Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

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Submitte	ed or	n 02/	/24/2017 t	by Rach	nel Rigby ( <u>Rachell</u>	Rigby@Mi	ssouriSta	ate.edu).		
*All fields r	equire	e inpu	ıt	and company of the second section of the section of the second section of the second section of the second section of the section of the second section of the sec				name de Cara d	and a second control of the second control o	
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o An	existir	ng REG	ULAR (e.g. pern	manent) SE	CTION of a variable conte	nt course.				
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Yestin			970.6							
Will this prop	osal ne	ed to	be reviewed by	CGEIP?	® No ○ Yes					
Will this prop	osal ne	ed to	be reviewed by	EPPC?	® No ○ Yes		÷			
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and import plants and	e: BIO tance o anima	369. of we	Recommende Land ecosyst d their adapt	ems. Con ations, ar	uisite: CHM 171 or hig parisons of different w id conservation strateg and BIO 533, 3(2-2) D	etland types,	hydrology,	nutrient cycl	es,	
Revise the cur formatting; plea				tion as nee	ded: (Strikethrough all deletio	ns and insert/bold	new informati	on. Any content ti	hat is copied and pa	asted will lose existing
* *	В	I	S							принурганизар
ecosystems	: BIO 2 . Comp	169 <b>36</b> arison	<b>7 and 368</b> . Res	etland type	ed Prerequisite: CHM 171 es, hydrology, nutrient cyc credit for both BIO 633 an	les, plants and a	animals and			
				Moderation and transmission		100			anni de la company de la compa	
What is chang	ging? C	heck a	ll boxes that ap	pply.		1				·
☐ Cours	se Code	<b>:</b>			Course Number ( <u>Check /</u>	Availability)	1	Title	2	Prerequisite

	Credit Hours/Contact Hours	a	Periodicity			Description			13,
The	for proposed change prerequisite changes are the resu	Control of the contro	ninakinan melaak diren	C 12 2-90 Park 1 - C 1992 House		separate			
cours	es, which will allow the departn	nent to	offer the lecture	portion of the class on-l	ine.				
	this change affect course assessmen		-	•	Yes				
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	Other (be specific):	(1981 1759) 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175 175			130			5	
E.)	Check if this is a non-substantive ch	iange.							
What is	the date that this course change wa	s approve	ed by departmental	l or program faculty? (MM/DI	D/YYYY)	1	02/17/20	17	
Current	Status:								
College	Council Review								
Proposa	l Progress:							•	
)2/24/2	017 - Submitted by Department	Head (S	Mathis)						
Review	Comments:								
No comr	ments have been added to this p	roposal	•						



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# Curricular Action Workflow





Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

ubmitted	
ubilittea (	on 02/24/2017 by Rachel Rigby ( <u>RachelRigby@MissouriState.edu)</u> .
All fields requ	uire input
his proposal a	applies to:
An exist	sting COURSE
() An exis	sting REGULAR (e.g. permanent) SECTION of a variable content course.
xisting Course	
31053/ Salt M	1arsh Clant Ecology : 1866
ill this proposal	need to be reviewed by CGEIP?   No  Yes
ill this proposal	need to be reviewed by EPPC? ® No O Yes
The Carrier of Party of P	talog description: /arshi:Plant:Ecology
	IO 122 and BIO 334 and BIO 369 and BIO 544; and concurrent enrollment in BIO 538. A study
	on the botanical aspects of local marshes; includes plant identification, composition, structure; nd development of coastal marshes. Biological and physical interrelationships, Primary
	nd relation of marshes to estuaries and associated fauna. Must be taken at the Gulf Coast
galetta og settingst	ratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 637. Cannot receive BIO 637 and BIO 537. 2(2-0) Su
	t online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing eview prior to submission.)
<b>♦ →</b> B	s I s
	arsh Plant Ecology
BIO 537 Salt Ma	

What is changing? Check all boxes that apply.

			•				/	/ 1
D	Course Code		Course Number (Check Availability)	D	Title	83	Prerequisite	(
	Credit Hours/Contact Hours		Periodicity		Description		(	
10000	n for proposed change			Company Services	gran STEN Place of the Consequences			
			plitting the lecture and laboratory offer the lecture portion of the cla		separate			
\$15500000000000000000000000000000000000	######################################	102						
Doe	s this change affect course assessme	nt (e.g. s	tudent learning evidence/outcomes)?	No ○ Yes				
How d	iid you determine the need for this ch	iange? C	heck all boxes that apply or specify other	er,				
	Routine or annual review/assessme	ent of cu	rriculum	Ø	Faculty Input	Ð	Student Input	
	Accreditation/certification complian	nce		, and	Review of catalog	informatio	no	
	Other (be specific):							-
	Check if this is a non-substantive c	hange.						
What i	s the date that this course change wa	as appro	ved by departmental or program faculty:	? (MM/DD/YYYY	)	02/17	/2017	
Current	: Status:							
College	Council Review							
Proposa	al Progress:							
02/24/2	2017 - Submitted by Department	Head (	(S Mathis)					
Review	Comments:							
No com	ments have been added to this p	roposa	al.				1	
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## Curricular Action Workflow



Chan	ge C	ourse F	rop	osal Form				
Submitte	ed on 0	2/24/2017 b	y Rach	nel Rigby ( <u>RachelRigby(</u>	MissouriS	tate.edu).		
*All fields	require in	out			/A	***************************************	**************************************	
This propo	sal applies	to:						
⊛ Ar	n existing Co	DURSE	.*					
, o Ar	existing R	:GULAR (e.g. perm	nanent) SE	CTION of a variable content course.				
Existing Co	urse:						•	
BIO562 Li	mnology.							
Vill this prop	osal need t	be reviewed by	CGEIP?	® No ○ Yes				
Vill this prop	osal need t	be reviewed by	EPPC?	® No ○ Yes				
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BIO 562 Li	mnotogy			10 100 PM 15 15 15 15 15 15 15 15 15 15 15 15 15				•
Drereguieit	a. BIO 369	l Decommende	d Drarac	uisite: CHM 171 or higher, Phys	i i i i i i i i i i i i i i i i i i i	and biological		
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A CONTRACTOR CONTRACTOR STATE			量10年20日1日	atory includes mapping, take n day Saturday labs required. Ma			Ng g	
COMPLETE STANK				662 and BIO 562. 4(2-4) F			70.0	
levise the cu	rrent online	catalog descripti	on as nee	ded: (Strikethrough all deletions and inse	rt/bold new inform	ation. Any content th	at is copied and p	pasted will lose existing
ormatting; plea	I	or to submission.)					The second second second	PHIRITIAL PARKET
<del>*</del> *	B I	ક			···	· · · · · · · · · · · · · · · · · · ·		
BIO 562 Lin	nnology							
Prerequisite	:: BIO <del>369</del> 3	67 and 368. Red	commende	ed Prerequisite: CHM 171 or higher.	Physical, chemic	al, and biological	characteristics	of lakes and reservoirs.
				themistry, and surveys of diversity and both BIO 662 and BIO 562. 4(2-4		Two all-day Sature	day labs requir	ed. May be taught
		PPHLADAGPANIA						
***								
/hat is chanç	ging? Check	all boxes that app	ply.					
Cours	se Code			Course Number (Check Availabilit	<b>0</b> (1)	Title	된	Prerequisite
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D	Credit Hours/Contact Hours	a	Periodicity		O	Description		(15)
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	prerequisite changes are the a ses, which will allow the depa					separate		
Dos	s this change affect course assessr	nent (e.g. s	tudent learning evidence/o	utcomes)7 ® No 🗢	Yes			
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B	Accreditation/certification comp	liance			O	Review of catalog	informatic	n
i y man	Other (be specific):							
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What i	is the date that this course change	was appro	ved by departmental or pro	gram faculty? (MM/DE	)/YYYY		02/17	72017
Current	t Status:							
College	Council Review							
Proposi	al Progress:							
02/24/2	2017 - Submitted by Departme	nt Head (	S Mathis)					
Review	Comments:							
No com	ments have been added to thi	s proposa	l.					



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## Curricular Action Workflow





Char	ige Co	ourse F	rop	osal Form						
Submit	ted on 02	/24/2017 b	y Racl	nel Rigby ( <u>RachelRigb</u> y	y@Misso	uriSta	ate.edu).			
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	osal applies									
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BIO563	Population E	ology	14.04 ::::							
Will this pr	oposal need to	be reviewed by (	GEIP?	® No ○ Yes						
Will this pr	oposal need to	be reviewed by I	EPPC?	® No 🤈 Yes						
Current onl	ine catalog de:	scription:								
BIO 563	Population E	cology						j		
		CONTROL CONTROL OF THE CASE OF THE		er. Discussion of factors conti						
115 No. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T. P. S.		120777-11-12-1	cription of population dynam redit for both BIO 663 and BI	K (COUNTRIC (COST STATE)	Charperd Sheet Charl	May be taught			
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BIO 563 F	opulation Ecok	nav				n			4	
Prerequisi	te: BIO <del>369</del> 36	57 and 368; and	I MTH 13: ohasized.	B or higher. Discussion of factors May be taught concurrently with	controlling the BIO 663. Can	distrib	ution and abundanc eive credit for both	e of popula BIO 663 an	tions. Quantitative d BIO 563. 3(2-2) SE	
			-4	MANAGEMENT AND			The state of the s		April 19 day 11 pt day 1 pt da	
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What is cha	naina? Chert:	all boxes that app	ntv							
	urse Code	ar soves mar abl	rty. []]	Course Number ( <u>Check Availabi</u>	lity)	₽	Title	Ø	Prerequisite	
☐ Cre	dit Hours/Cont	act Hours	C	Periodicity		O	Description			

No comments have been added to this proposal.

Reason for proposed change The prerequisite changes are the result of splitting the lecture and laboratory portions into separate courses, which will allow the department to offer the lecture portion of the class on-line. Does this change affect course assessment (e.g. student learning evidence/outcomes)? ® No O Yes How did you determine the need for this change? Check all boxes that apply or specify other. Routine or annual review/assessment of curriculum Faculty Input Student Input Ø Accreditation/certification compliance Review of catalog information Other (be specific): Check if this is a non-substantive change. What is the date that this course change was approved by departmental or program faculty? (MM/DD/YYYY) 02/17/2017 **Current Status:** College Council Review Proposal Progress: 02/24/2017 - Submitted by Department Head (S Mathis) Review Comments:



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2 of 2



### Curricular Action Workflow



har	nge	Cours	e Prop	osal Form	1				
Submit	tted or	n 02/24/20	017 by Racl	hel Rigby ( <u>Rache</u> l	.Rigby@Mi	ssouriSt	ate.edu).		
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This prop		•							
۵	An existii	ig COURSE							
0	An existii	ng REGULAR (e.	g. permanent) SE	ECTION of a variable conti	ent course.				
Existing	Course:	•							
BIO564	Ozarks l	latural Comn	nunities						
Recomm environs covered: receive of Revise the	nended P mental is May be credit for current o	sues in the C taught at the both BIO 56 hine catalog d w prior to submis	IIO 369. Exami Dzarks. Integrat Bull Shoals F 4 and BIO 664 escription as nee	ination of forests, glad tion into formal and no ield Station. May be ta i. 2(1-2) D. eded: (Strikethrough all deleti	on-format educ ught concurre	ational se ntly with E	ttings will be 10 664, Cann	ot .	asted will lose existing
Recommo Integratio	ended Pre on into fo	mal and non-fo	369 367 and 36 ormal educations	58. Examination of forests al settings will be covered BIO 664. 2(1-2) D	, glades, and aq . May be taught	uatic habital at the Bull S	s with focus on hoals Field Stat	environmental ion. May be tau	issues in the Ozarks. ght concurrently with BIO
		heck all boxes		Course Number (Charles	Amilah Bad		Title		Provocujajte
	ourse Code	=		Course Number ( <u>Check</u>	Uxairahirirk)	G	Title	Ø	Prerequisite

	Credit Hours/Contact Hours	G	Periodicity			Description			(17
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	prerequisite changes are the r ses, which will allow the depa					separate			
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CI	Accreditation/certification comp	liance				Review of catalog	informatio	on	
O	Other (be specific):	100							
_	Check if this is a non-substantive	change.							
What	is the date that this course change	was appro	ved by departmental or pr	ogram faculty? (MM/D	D/YYY	n	∂02/17	/2017	
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## Curricular Action Workflow



Chan	ge	Со	urse l	Prop	osal Form						
Submitte	ed or	า 02/	24/2017	by Racl	nel Rigby ( <u>RachelRig</u> l	oy@Misso	ouriSt	ate.edu).			
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BIO664 O	zarks I	Vatura	Communiti	es							
Will this prop	oosal ne	eed to b	e reviewed by	CGEIP?	® No ○ Yes						
Will this prop	osal ne	ed to b	e reviewed by	EPPC?	® No ○ Yes						
Current onlin	e catal	og desc	rìption:								
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Bazanti sa alian banasa ya											
15513229 2211	200				nation of forests, glades, an		Martin III	Homes at the control of	019.01.79.12 116.57.10.14		
######################################	2000 000 000	44.0	Control California (Tractoria)	TO SERVICE OF THE PARTY OF THE	ion into formal and non-for eld Station. May be taught	District County of State of the County of the	M 50 5 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in Militar Redibut real 1986 i rede 1986	63890.393		
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BIO 664 Oz	arks Na	itural C	ommunities	**************************************	The state of the s					PR Pr 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Recommend	ded Pré	requisit	e: BIO <del>369</del> <b>3</b> 6	67 and 36	8. Examination of forests, glade	s, and aquatio	: habitats	with focus or	n environmental	issues in the Ozarks	s
Integration 564. Canno	into for t recelv	rmal an re credii	d non-formal e for both BIO	educationa 664 and 8	l settings will be covered. May l IIO 564. 2(1-2) D	e taught at th	e Bull St	ioals Field Star	tion, May be tau	ght concurrently wit	th BIO
			-			,,					
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What is chang	ging? C	heck al	l boxes that ap	pply.							
Cour	se Code	,			Course Number (Check Availa	bility)	a	Title	121	Prerequisite	

D	Credit Hours/Contact Hours	☐ Per	iodicity		D	Description			7a
Reasor	for proposed change								
20110000000	prerequisite changes are the re ses, which will allow the depar					separate			
Does	s this change affect course assessme	ent (e.g. studeni	: learning evidence/ou	tcomes)? ® No O	Yes		·		
How di	id you determine the need for this o	:hange? Check a	ll boxes that apply or	specify other.					
	Routine or annual review/assessm	nent of curriculu	ım		<b>S</b> 21	Faculty Input		Student Input	
	Accreditation/certification compli	ance				Review of catalog	information		
	Other (be specific):								
	Check if this is a non-substantive	change.			•				
What is	s the date that this course change w $$	vas approved by	departmental or prog	ram faculty? (MM/D	D/YYYY	n	02/17/2	017	
Current	Status:								
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Proposa	al Progress:								
	017 - Submitted by Departmer 017 - Reviewed by Dean (Tame		this)						
Review	Comments:								
No com	ments have been added to this	proposal.							:
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## Curricular Action Workflow



Computer Service

Char	ige (	Course	Prop	osal Form					
Submit	tted or	1 02/24/2017	<sup>7</sup> by Raci	nel Rigby ( <u>RachelRigby@</u> M	lissouriSt	ate.edu).			
*All field	le requir	a innut							August and - graphs
This prop									
 ( <del>9</del> )	An existir	ng COURSE							
0	An existir	ng REGULAR (e.g. p	ermanent) SE	ECTION of a variable content course.					
Existing	- charitanes alaborated a seco					pertragono giustina estima	600, <del>111,000</del> 0000000000000000000000000000		Nation of
BIO567	Physiolo	gical Ecology							
Will this pr	roposal ne	ed to be reviewed	by CGEIP?	® No ○ Yes					
Will this pr	roposal ne	ed to be reviewed	by EPPC?	® No © Yes				•	
·	•		,						
inm Filipas 195	ningeneræde	og description: igical Ecology					- 5 9		
DIV 201	Filysiou	incar Ecology							
Preregui	site: BIO	369; and either	BIO 361 oi	BIO 544 or BMS 308. Physiologica	l adaptation	s of plants and			
figur en signic		226 Still Liber Swelensers in 114		ions and to ecological/evolutionary	No. Modern Control of the Control of	lay be taught			
concurre	intly wit	n BIO 668. Cann	ot receive c	redit for both BIO 668 and BIO 567	. 4(4+0) SO				
		nline catalog descr w prior to submission	•	rded: (Strikethrough all deletions and insert/bo	ld new informat	ion. Any content that is	copled and p	pasted will lose existing	
<b>4</b> 1 #	В	I S	,	····	14 1				
BIO 567	Physiologi	cal Ecology		Andrew An				eru aldama dale i di	
	-		and either B	IO 361 or BIO 544 or BMS 308. Physiolo	gical adaptati	ons of plants and a	nimals to e	nvironmentally stressful	
condition	s and to e	cological/evolution	ary pressure	s. May be taught concurrently with BIO	668. Cannot r	eceive credit for bot	th BIO 668	and BIO 567. 4(4-0) SO	
								1910-116.	
·	- 1 - 4-4		and the same same same same same same same sam						ilb.
What is cha	anging? C	heck all boxes that	apply.				*		
□ Co	urse Code	•	, 🗅	Course Number (Check Availability)	Ð	Title		Prerequisite	٠
□ Cr	edit Hours	5/Contact Hours		Periodicity		Description			

**Review Comments:** 

No comments have been added to this proposal.



The	n for proposed change  prerequisite changes are the result of splitting the lecture and laboratory p		separate	-	(18
110000000000000000000000000000000000000	ses, which will allow the department to offer the lecture portion of the clas				
Doe	es this change affect course assessment (e.g. student learning evidence/outcomes)? ***  . *  . **  . *	No <sup>©</sup> Yes			
How d	did you determine the need for this change? Check all boxes that apply or specify other.				
	Routine or annual review/assessment of curriculum	<b>₩</b>	Faculty Input		Student Input
ï	Accreditation/certification compliance		Review of catalog	Informatio	on
	Other (be specific):				
D	Check if this is a non-substantive change.				
What i	is the date that this course change was approved by departmental or program faculty?	(MM/DD/YYY	n	02/17	//2017
urrent	t Status:				
ollege	Council Review				
ropos	al Progress:				
2/24/2	2017 - Submitted by Department Head (S Mathis)				



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### Curricular Action Workflow





All fields require input his proposal applies to:  An existing COURSE  An existing REGULAR (e.g. permanent) SECTION of a variable content course.  All fields require input his proposal applies to:  An existing REGULAR (e.g. permanent) SECTION of a variable content course.  An existing REGULAR (e.g. permanent) SECTION of a variable content course.  An existing Course:  3.0578 Behavioral Ecology  3.0578 Behavioral Ecology  4.05 Yes  4	Submit			
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а	Other (be specific):	V. 28423						exit of
П	Check if this is a non-substantive	change.						
What	is the date that this course change	was approve	d by departmental or	program faculty? (MM/	/DD/YYY	Y)	02/17	/2017
Curren	t Status:							
College	Council Review							
Propos	al Progress:							
02/24/	2017 - Submitted by Departme	nt Head (S	Mathis)					
Review	Comments:							
No com	nments have been added to thi	s proposal.						
ALAMAN,		— <u>— — — — — — — — — — — — — — — — — — </u>		·				



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### Curricular Action Workflow



			VP	osal Form					
Submitte	ed on	02/24/2017	7 by Rach	nel Rigby ( <u>Rachel</u>	Rigby@Miss	souriSta	e.edu).		
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О	Credit Hours/Contact Hours		Periodicity			Description		(	20
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Current	Status:		•						
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Proposa	l Progress:								
02/24/20	017 - Submitted by Department	Head (S	Mathis)						
Review (	Comments:								
No comn	nents have been added to this p	roposal.							



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## Curricular Action Workflow





)h	ange Course	Prop	osal Form	11 PPR 1111 11			
Sub	mitted on 02/24/2017	by Rac	hel Rigby ( <u>RachelRigby@N</u>	lissouriSt	ate.edu).		
*All f	fields require input		,				
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Reason for proposed change

The prerequisite changes are the result of splitting the lecture and laboratory portions into separate courses, which will allow the department to offer the lecture portion of the class on-line.

Doe	s this change affect course assessment (e.g. student learning evidence/outcomes)? 🍭 No	○ Yes			
How d	id you determine the need for this change? Check all boxes that apply or specify other.				
-	Routine or annual review/assessment of curriculum	Ø	Faculty Input		Student Input
D	Accreditation/certification compliance		Review of catalog	nformation	
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£3	Check If this is a non-substantive change.				
What i	s the date that this course change was approved by departmental or program faculty? (M	M/DD/YYY\	າ	02/17/2	017
Current	: Status:				
College	Council Review				
Propos	al Progress:				
02/24/2	2017 - Submitted by Department Head (S Mathis)				
Review	Comments:				
No com	ments have been added to this proposal.				
			25		



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## Curricular Action Workflow



Ne	w Cour	se Pr	oposal Foi	rm				
Sub	mitted on 0	2/24/20:	17 by Brian Green	e ( <u>Briangreen</u>	e@missou	rista <u>t</u>	e.edu).	
All fie	lds require inp	ut			1170			
<b>(36)</b>	New COURSE							
0	New REGULAR course number	PERMANENT below	SECTION of an existing va	ariable content course	e. If a new regula	ır sectio	ก of an existing variable topics co	ourse, enter the existing
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New Cour	se Resource Info	rmation		·				
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Anticipat	ed Average Enrollme	nt per year	r:	145	Maximum Enrollment Limit	; per year:	214	
Faculty L	oad Assignment (equ	ated hours	s);	3.	`			
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Other additional expenses
None

If additional faculty are not required, how will faculty be made available to teach this course?

The students in the new course are those that are currently enrolled in BIO 369. Therefore no new faculty are required.

List names of current faculty qualified and available to teach this course

Brian Greene

What is the anticipated source of students for this course?

Primarily, Biology majors and minors.

If from within the department, will students be taking this course in addition to or in place of other courses?

No.: General ecology is a core course for most biology majors. Creating a lecture-only option would allow students to take this portion of general ecology in an online format.

If from outside the department, which courses in other departments would most likely be affected?)

We are not aware of any courses, outside of biology, that would be affected by this change.

#### Other comments:

The current general ecology class (BIO 369) combines lecture (3 credits) and lab (1 credit) components in a single class. The Biology Department would like to make the lecture portion of general ecology available as an online course option, requiring the split of lecture and lab components into separate classes.

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY)

02/24/2017

**Current Status:** 

College Council Review

Proposal Progress:

02/24/2017 - Submitted by Department Head (S Mathis)

Review Comments:

No comments have been added to this proposal.





Syllabus and Course Policies - Spring 2017 Section A — MWF 12:20:1:10, LIBR 101

Instructor: Dr. Brian Greene

Office: Temple Hall 275 (836-6379) Email: BrianGreene@missouristate.edu Office Hours: T 11:00-12:00, 2:00-3:00, W 10:00-11:00, Th 2:00-3:00, F 11:00-12:00

#### **Resources:**

Krohne, D.T. 2016. Ecology: Evolution, application, integration, Oxford University Press, New York.

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100
500

Grading	, , , , , , , , , , , , , , , , , , , ,
447-500 (89.5-100%)	Α
397-446 (79.5-89%)	В
347-396 (69.5-79%)	С
297-346 (59.5-69%)	D
≤ 297 (below 60%)	F

**Final Exam** – The final exam is a comprehensive review of key topics from each of the four regular lecture exams. **You are not required to take the final exam**. The final exam score can only be used to replace a missing exam score or replace a lower score on a previous exam. The final exam score will only be counted if it exceeds a previous score.

Course Summary – Ecology is an important core course in the life sciences that can be broadly integrated with most other courses in the biology curriculum. My goal is to provide a comprehensive overview of ecology that will be valuable to everyone regardless of the degree option you have chosen. In lecture we will cover key concepts in each area of ecology while also touching on many applied aspects, especially those with current relevance. General Ecology Lab (BIO 368) is a co-requisite for BIO 367.

### **Course Policies**



Attendance and makeup policies: Ultimately the decision to attend lecture is entirely your own and you will not be directly penalized for nonattendance. Keep in mind that regular attendance improves your chances of earning a high grade because the test material is derived from the lecture notes. Makeups for lecture exams will be granted in situations where there is: (1) an emergency (illness, accident, etc.) that explains your absence; or (2) an absence due to a known conflict that is cleared in advance with your instructor. Lecture exams can be made up in two ways: (1) a makeup exam can be taken at my office before the results of the missed exam are made available to the class; or (2) the final exam grade can be used in place of the missed exam score.

**Disability Accommodation:** To request academic accommodations for a disability, contact the Director of the Disability Resource Center, Plaster Student Union, Suite 405, (417) 836-4192 or (417) 836-6792 (TTY), <a href="https://psychology.missouristate.edu/disability">www.missouristate.edu/disability</a>. Students are required to provide documentation of disability to the Disability Resource Center prior to receiving accommodations. The Disability Resource Center refers some types of accommodation requests to the Learning Diagnostic Clinic, which also provides diagnostic testing for learning and psychological disabilities. For information about testing, contact the Director of the Learning Diagnostic Clinic, (417) 836-4787, <a href="http://psychology.missouristate.edu/ddc">http://psychology.missouristate.edu/ddc</a>.

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Academic Integrity: Missouri State University is a community of scholars committed to developing educated persons who accept the responsibility to practice personal and academic integrity. You are responsible for knowing and following the university's Student Academic Integrity Policies and Procedures, available at <a href="https://www.missouristate.edu/policy/academicintegritystudents.htm">www.missouristate.edu/policy/academicintegritystudents.htm</a>. You are also responsible for understanding and following any additional academic integrity policies specific to this class (as outlined by the instructor). Any student participating in any form of academic dishonesty will be subject to sanctions as described in this policy. If you are accused of violating this policy and are in the appeals process, you should continue participating in the class.

Cell Phone Policy: As a member of the learning community, each student has a responsibility to other students who are members of the community. To avoid disruption from ringing cell phones, the Office of the Provost prohibits the use by students of cell phones, pagers, PDAs, or similar communication devices during scheduled classes. All such devices must be turned off or put in a silent (vibrate) mode and ordinarily should not be taken out during class. Given the fact that these same communication devices are an integral part of the University's emergency notification system, an exception to this policy would occur when numerous devices activate simultaneously. When this occurs, students may consult their devices to determine if a university emergency exists. If that is not the case, the devices should be immediately returned to silent mode and put away. Other exceptions to this policy may be granted at the discretion of the instructor.

Emergency Response Plan: In the event of a fire, we will leave the room and leave the building from the closest exit and proceed to either Glass Hall 101 or Temple Hall 001. For severe weather events, we will exit the room and proceed to the basement in the moveable shelving area. Students with disabilities impacting mobility should discuss the approved accommodations for emergency situations and additional options when applicable with the instructor. For more information, go to <a href="http://www.missouristate.edu/safetran/51597.htm">http://www.missouristate.edu/safetran/51597.htm</a> and <a href="http://www.missouristate.edu/safetran/erp.htm">http://www.missouristate.edu/safetran/erp.htm</a>



## Lecture Schedule (MWF 12:20-1:10)

Date	Topic	Text
January 16	No Class – Martin Luther King Jr. Holiday	
18	What is ecology?	Chapter 1
20		
23	Adaptation and evolution	Chapter 2
25	Climate and Weather	
27	Adaptations to the physical environment (Light)	Chapter 3
30	Physical environment (water&temperature)	Onapier 5
February 1	Terrestrial communities	Chapter 4
3		Onapto.
6	Aquatic communities	Chapter 5
8	Exam 1	Chapters
10	Behavioral Ecology	Chapter 6
13		Chapter 6
15	Variation within species	Chapter 7
17	variation within species	Chapter 7
20	No Class-President's Day Holiday	
22	Population Ecology – demography	Charter 0
24	r opulation Ecology – demography	Chapter 8
27	Population regulation	Charles 0
March 1	Population regulation	Chapter 9
	Life History	Chapter 10
6	F 9	
	Exam 2	
8	Community Ecology – competition	Chapter 11
10		
13, 15, 17	No class – Spring Break	
20	Coevolution – consumer-resource interactions	Chapter 12
22		
24	Commensalism and mutualism	
27		
29	Community structure	Chapter 13
31		
April 3	Ecological succession	Chapter 14
5		
7	Species diversity	Chapter 15
10		
12	Exam 3	
14	No class – Spring Holiday	
17	Energy flow and trophic structure	Chapter 16
19		
21	Biogeochemical Cycles	Chapter 17
24		
26	Conservation Biology	Chapter 18
28		
May 1	Landscape Ecology	Chapter 19
3		
5	The influence of humans on the global environment	Chapter 20
8		
10	Exam 4	
12	No Class – Study Day	
15 (Monday)	11:00-1:00 (LIBR 101)	

# Curricular Action Workflow





Nev	w Cours	se Pr	oposal Fo	rm					
Subi	Submitted on 02/24/2017 by Brian Greene (Briangreene@missouristate.edu).			PP/A					
'All fiel	ds require input	COURSE  REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing enumber below  Course Number: (Check Availability)  368							
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Course BIO	Code:			Course Number	(Check Availability	(1 = 6 = 7 = 7 1 = 6 = 7 = 7 1 = 6 = 7 = 7			
Course Gene	Title: ral Ecology Lab								
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Credit I	Hours:	1	Lecture Contac	ct Hours:	0		Lab Contact Hours:	2	
Note: I	f variable credit, en	ter the hig	hest number and add to e	nd of course descr	iption. (e.g. "Variabl	e credit,	may be taken 1-3 hours.")		
eriodic	ity. Check all tha	t apply.							
23	Fall		Fall (even-numbered	years only)		O	Fall (odd-numbered years only	)	
<b>2</b> 3	Spring		Spring (even-number	ed years only)			Spring (odd-numbered years o	nly)	

83	Summer	On Demand	only		(2-
BIO 368 Prerequis Methods Credit ho	urs: 1 Lecture conta	b studies. Intended to emph act hours: 0 Lab contact ho		nd data analyses pertinent to lecture ma	aterial in BIO 367.
Typically	offered: Fall, Spring	g, Summer ·			
Include s	ample syllabus (list		text box OR upload only file		Attached
Purpose (	oduce students to	o the methods used in	ecological studies.		
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Genera Plant S	cience, Wildlife (	ired for three degrees	ement, and the Forestry	iculture. These are: Environmenta ninor. The appropriate departmen	1.1111
Is there a	graduate/undergra	iduate parallel course to the	his one? 🌘 No 🗅 Yes		
New Cour	se Resource Info	ormation			
Anticipat	ed Average Enrollm	ent per section:	65	Maximum Enrollment Limit per section	n: 95
Anticipat	ed Average Enrolim	ent per semester:	65	Maximum Enrollment Limit per seme	ster: 95
Anticipat	ed Average Enrollm	ent per year:	145	Maximum Enrollment Limit per year:	214
Faculty L	oad Assignment (eq	uated hours):	2		
ls anothe	r course being dele	ted? ○ No ® Yes		Select course number and title being BIO369 General Ecology	) deleted.
What wil	I this course requir	e in the way of:			-
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	Additional o	computer resources		•	
	None				
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	None				

dditional equipment or supplies  Vone
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None
dditional faculty; general vs specialized
None:
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None .
ther additional expenses
Vone

If additional faculty are not required, how will faculty be made available to teach this course?

The students in this proposed course are those that are currently enrolled in BIO 369. Therefore no new faculty are required.

List names of current faculty qualified and available to teach this course

Brian Greene

What is the anticipated source of students for this course?

Primarily, Biology majors and minors.

If from within the department, will students be taking this course in addition to or in place of other courses?

No. General ecology (BIO 369) is a core course for most biology majors. Our proposal splits this class into separate lecture and lab courses (BIO 367 and BIO 368) but does not create any new requirements.

If from outside the department, which courses in other departments would most likely be affected?)

We are not aware of any courses, outside of biology, that would be affected by this change.

#### Other comments

The current general ecology class (BIO 369) combines lecture (3 credits) and lab (1 credit) components in a single class. The Biology Department would like to make the lecture portion of general ecology available as an online course option, requiring the split of lecture and lab components into separate classes.

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY)

02/24/2017

**Current Status:** 

College Council Review

Proposal Progress:

02/24/2017 - Submitted by Department Head (S Mathis)

**Review Comments:** 

No comments have been added to this proposal.





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# BIO 368 – General Ecology Laboratory

### Syllabus and Course Policies

#### Instructors:

Dr. Brian Greene - section 1

Office: Temple Hall 275 (836-6379) Email: BrianGreene@missouristate.edu Office Hours: T 11:00-12:00, 2:00-3:00, W 10:00-11:00, Th 2:00-3:00, F 11:00-12:00

Graduate TA - sections 2 and 4

Office:

**Office Hours:** 

Phone:

Email:

#### **Resources:**

Krohne, D.T. Ecology: Evolution, application, integration. W.H. Freeman, NY.

	Points	
	Laboratory quizzes (2@25 points)	50
	Lab reports (2@50 points)	100
	Lab project	100
i	Data collection for field labs (4@5 points)	20
	Total	170

Grading	
152-170 (89.5-100%)	Α
135-151 (79.5-89%)	В
118-134 (69.5-79%)	С
101-117 (59.5-69%)	D
< 101 (below 60%)	F
101-117 (59.5-69%)	D

**Course Summary** – Ecology is an important core course in the life sciences that can be broadly integrated with most other courses in the biology curriculum. This course is intended to provide an introduction to sampling methods and data analyses used in ecological studies. Labs will include some local field trips. BIO 368 should ideally be taken concurrently with BIO 367.

### **Course Policies**



Attendance and makeup policies: Class attendance is required and will be checked. Because grades are strongly correlated to class activities, regular attendance is essential to success in this course. Makeups for quizzes will be granted in situations where there is: (1) an emergency (illness, accident, etc.) that explains your absence; or (2) an absence due to a known conflict that is cleared in advance with your instructor. Lab makeups will involve the student attending an alternate lab section with the instructor's permission. Four labs involve data collection field trips that produce data sets used during the next lab period. Each data collection lab is worth 5 points for each participant. These points cannot be made up if you miss that lab.

**Lab Reports:** Lab report grades that are turned in after the due date will receive a grade deduction of 10 points per day. Any report turned in five or more days beyond the due date will receive zero points.

**Disability Accommodation:** To request academic accommodations for a disability, contact the Director of the Disability Resource Center, Meyer Library Suite 111, (417) 836-4192 or (417) 836-6792 (TTY), <a href="https://psychology.missouristate.edu/disability">www.missouristate.edu/disability</a>. Students are required to provide documentation of disability to the Disability Resource Center prior to receiving accommodations. The Disability Resource Center refers some types of accommodation requests to the Learning Diagnostic Clinic, which also provides diagnostic testing for learning and psychological disabilities. For information about testing, contact the Director of the Learning Diagnostic Clinic, (417) 836-4787, <a href="http://psychology.missouristate.edu/de">http://psychology.missouristate.edu/de</a>.

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Emergency Response Plan: In the event of a fire, we will leave the room and leave the building from the closest exit and proceed north to McDonald Arena or Meyer Library. For severe weather events, we will exit the room and proceed to the racquetball courts on the first floor until told that the threat has passed. Students with disabilities impacting mobility should discuss the approved accommodations for emergency situations and additional options when applicable with the instructor. For more information, go to <a href="http://www.missouristate.edu/safetran/51597.htm">http://www.missouristate.edu/safetran/erp.htm</a>





Week	Date	Exercise	Notes
1		Introduction to Ecology lab – principles of sampling and data description	
2		Measuring and Describing Variables: needle length in pine trees (computer lab)	
3		Crayfish population sampling **	
4		Crayfish Population estimation analysis (computer lab)	Data used in next week's lab
5		Report writing workshop and project exploration	
6		Cemetery life table exercise	Data used in next week's lab
7		Human life table calculations (computer lab)	Crayfish lab report due
8		Predator functional response simulation	
9		Quiz 1	
10		Forest community structure sampling ** (Data collected at Springfield Lake Park)	Data used week of Nov 8th
11		Forest community structure analysis (Data collected at Springfield Lake Park)	Data used week of Nov 8th
12		Forest community structure analysis (computer lab)	
13		Desert plant spatial dispersion	Forest community lab report due
14		No Labs – Thanksgiving Holiday	
15		Resource/review day	
16		Quiz 2	Project due

<sup>\*\*</sup> Lab reports will be based on these exercises

## Curricular Action Workflow



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Reason for proposed change

We determined that the additional prerequisite options provide students with the appropriate foundation for PLN 367 and will ease advising and scheduling of majors.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? 

No Yes

(24)

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8	Routine or annual i	review/assessment of curriculum		Ø	Faculty Input	Ø	Student Input
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Current Status:

College Council Review

Proposal Progress:

02/15/2017 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:** 

No comments have been added to this proposal.





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## Curricular Action Workflow



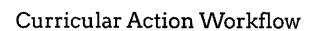
Computer Services

Change Course Prop	oosal Form
Submitted on 02/22/2017 by Will	liam Bray ( <u>WBray@MissouriState.edu)</u> .
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An existing COURSE	,
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Existing Course:	
MTH181 Trigonometry	
Vill this proposal need to be reviewed by CGEIP?	○ No ® Yes
Will this proposal need to be reviewed by EPPC?	® No ○ Yes
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What is changing? Check all boxes that apply.	

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Change Course Proposal Form	
Submitted on 02/22/2017 by William Bray (WBray@MissouriState.edu).	
*All fields require input	***************************************
This proposal applies to:	
An existing COURSE	
<ul> <li>An existing REGULAR (e.g. permanent) SECTION of a variable content course.</li> </ul>	
Existing Course:	=1./\(\frac{1}{2}\text{in.}\(\frac{1}\text{in.}\(\frac{1}\text{in.}\(\frac{1}\text{in.}\(\frac{1}\text{in.}\(\frac{1}\text{in.}\(\frac{1}
MTH261 Analytic Geometry and Calculus I	
Current online catalog description:  MTH 261 Analytic Geometry and Calculus I:  Prerequisite: "C" grade or better in MTH 138 or MTH 181 or appropriate placement score. General Education  Course (Focus on Quantitative Literacy). Analytic geometry of the plane, limits, continuity, differentiation with  applications, introductory integration with applications. A grade of "C" or better is required in this course in  order to take MTH 280 or 288; Cannot be taken Pass/Not Pass. 5(5-0) F,S  Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)	
+ + B I S	
MTH 261 Analytic Geometry and Calculus I  Prerequisite: "C" grade or better in MTH 138 or MTH 181 or appropriate placement score. General Education Course (Focus on Quantitative Literacy). Analytic geometry of the plane, limits, continuity, differentiation with applications, introductory integration with applications. A grade of "C" or better is required in this course in order to take MTH 280 or 288. Cannot be taken Pass/Not Pass. 5(5-0) F,S	
	afi
What is changing? Check all boxes that apply.	
☐ Course Code ☐ Course Number (Check Availability) ☐ Title ☐ Prerequisite	

	Credit Hours/Contact Hours	· · · · · · · · · · · · · · · · · · ·	Periodicity		<b>3</b> 3	Description		(2
Reaso	n for proposed change							
This	change removes MTH 261 a	s a Quantita	ative Literacy course in	n General Education	1775) <b>1.</b>	# 15 CG		
Doe	es this change affect course asses:	sment (e.g. st	udent learning evidence/o	outcomes)? O No	Yes			
How o	did you determine the need for th	is change? Ch	neck all boxes that apply (	or specify other.		•		•
Ø	Routine or annual review/asse	ssment of cur	riculum		C	Faculty Input		Student Input
C)	Accreditation/certification com	pliance				Review of catalog	information	
න	10/20/20/20/20/20/20/20/20/20/20/20/20/20		H 261 are in the list o			ourses under Gene	ral	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ø	Check if this is a non-substanti	ive change.						
What	is the date that this course chang	e was approv	ed by departmental or pro	ogram faculty? (MM/D	D/YYY	Y) .	02/01/2	2017
Lurren	t Status:							
College	Council Review							
ropos	al Progress:			•				·
12/22/	2017 - Submitted by Departn	nent Head (	William Bray)					
leview	Comments:							
	2017 - Department Head Rev d passing with a C or better.	iew - Willia	m Bray - QL requireme	ent of students who	place	e into MTH 261 w	ill be met t	by enrolling into MTH



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## Curricular Action Workflow





Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

Change (	Course Proposal Form
Submitted on	02/22/2017 by William Bray ( <u>WBray@MissouriState.edu)</u> .
*All fields require	e input
This proposal app	
An existing	g COURSE
○ An existing	g REGULAR (e.g. permanent) SECTION of a variable content course.
Existing Course: MTH287 Comput	ational Calculus with Analytic Geometry 1
Will this proposal ne	ed to be reviewed by CGEIP? O No 9 Yes
Will this proposal ne	ed to be reviewed by EPPC? ® No © Yes
Prerequisite: "C" o General Education	og description:  Lational Calculus with Analytic Geometry I  Or better in MTH 135-or MTH 138, or an approved score on a department placement test.  In Course (Focus on Quantitative Literacy). Introduction to the concepts and methods of yand differential and integral calculus with emphasis on applications in the natural sciences.
and technology. C credit for both M1	annot receive credit toward graduation for both MTH 287 and MTH 261. Cannot receive TH 287 and MTH 285. A grade of "C" or better is required in this course in order to take MTH sken Pass/Not Pass. 3(3-0) F.
Revise the current on ormatting; please review	iline catalog description as needed; (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing v prior to submission.)
♦ ₱ B	<i>I</i> \$
Prerequisite: "C" or Literacy). Introducti	better in MTH 135 or MTH 138, or an approved score on a department placement test. General Education Course (Focus on Quantitative ion to the concepts and methods of analytic geometry and differential and integral calculus with emphasis on applications in the natural ology. Cannot receive credit toward graduation for both MTH 287 and MTH 281. Cannot receive credit for both MTH 287 and MTH 285. A grade equired in this course in order to take MTH 288. Cannot be taken Pass/Not Pass. 3(3-0) F

What is changing? Check all boxes that apply.

								/<
	Course Code		Course Number ( <u>Check Availability</u> )		Title	G	Prerequisite	
	Credit Hours/Contact Hours		Periodicity	<b>2</b> 2	Description			
Reasor	for proposed change							
This	change removes MTH 287 as a Q	uantit	ative Literacy course under General Edu	cation.				
				Service Convention	Million Addings of Constitution (Consti		•	
Does	s this change affect course assessment	t (e.g. st	udent learning evidence/outcomes)? ® No	ି Yes				
How d	d you determine the need for this cha	nge? Ci	neck all boxes that apply or specify other.		4			
2	Routine or annual review/assessmen	M	Faculty Input	۵	Student Input			
	Accreditation/certification compliant	n	Review of catalog i	- information				
SI	7		'H 287 satisfy the Quantitative Literacy portion of General Education	goals ui	nder General Educ	ation. This		
Ø	Check if this is a non-substantive ch	ange.	ATTI BEFFELDE TIPLE ELLE TELLE T					
		-						
What is	the date that this course change was	approv	ed by departmental or program faculty? (MM/	DD/YYYY	n .	02/01/2	017	
urrent	Status:							
ollege	Council Review						1.	
roposa	l Progress:				•			
2/22/2	017 - Submitted by Department	Head (	William Bray)			•		
eview	Comments:				,			
	017 - Department Head Review - sing with a C or better.	Willia	m Bray - Students who place into MTH	287 will	l meet the QL requ	irement b	y enrolling in M	fTH 287
		÷						



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