

**Missouri State.**



# Curricular Action Workflow



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

## Change Program Proposal Form

Submitted on 02/23/2017 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).

Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Comprehensive Major
- Certificate
- Other
- Option
- Certification

Title of Program Affected:

Biology-BA-Minor Required

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

1

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

**Bachelor of Arts**

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

**Major Requirements**

BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4), 494(1), 550(3)

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.

Related Requirements: CHM 201(3) and 202(2), or CHM 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)

Public Affairs Capstone Experience will be fulfilled by completion of BIO 369(4) 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.

**Minor Required (or second major)**

Specific Requirements for Bachelor of Arts Degree - see Specific Bachelor of Arts Degree Requirements section of catalog

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 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)

← → 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
- From program (major) to option
- 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

1

Current Status:

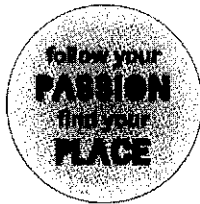
College Council Review

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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1

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

Bachelor of Arts

- A. General Education Requirements - see General Education Program and Requirements section of catalog
- B. Major Requirements
  1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), ~~369(4)~~**367(3)**, **368(1)**, 494(1), 550(3)
  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: CHM 201(3) and 202(2), or CHM 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
  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 Specific Bachelor of Arts Degree Requirements section of catalog
- E. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog

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## Curricular Action Workflow



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

# Change Program Proposal Form

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Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Certificate
- Other
- Comprehensive Major
- Certification
- 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)

2

**Biology (Non-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), 310(5) or 320(4), 369(4), 494(1), 550(3)

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.

Public Affairs Capstone Experience will be fulfilled by completion of BIO 369(4) 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.

Related Requirements: CHM 201(3) and 202(2), or CHM 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)

**Minor Required (or second major)**

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 [striethrough 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)

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Attached

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- Title change
- From option to program (major)
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- From program (major) to option
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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:

2

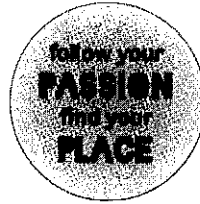
College Council Review

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 General Education Program and Requirements section of catalog
- B. Major Requirements
  - 1. BIO 121(4), 122(4), 235(4), 310(5) or 320(4), 369(4) 367(3), 368(1), 494(1), 550(3)
  - 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 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.
  - 4. Related Requirements: CHM 201(3) and 202(2), or CHM 342(5) and 343(5) or 344(3); PHY 123(4) and 124(4) or PHY 203(5) and 204(5); MTH 261(5) or 287(3)
- C. Minor Required (or second major)
- D. General Baccalaureate Degree Requirements - see General Baccalaureate Degree Requirements section of catalog



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## Curricular Action Workflow



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

# Change Program Proposal Form

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Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Comprehensive Major
- Certificate
- Other
- Option
- Certification

Title of Program Affected:

Biology/Environmental Biology and Evolution-BS

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

3

**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 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 Laboratory, any biology course taught at the Bull Shoals Field station or another field station (with the approval of your advisor)

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)

Not

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)

← → **B I S**

3

[Redacted box]

Attached

What is changing? Check all boxes that 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

[Redacted box]

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.

[Redacted box]



## Biology (Comprehensive) (BS)

Bachelor of Science

- A. General Education Requirements - see General Education Program and Requirements section of catalog
- B. Major Requirements

1. BIO 121(4), 122(4), 235(4), 494(1), 550(3)
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 BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), ~~369(4)~~ 367, 368, 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.
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: BIO 369(4) 367, 368, 515(3)
2. 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)
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)
4. 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)
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 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: CHM 160(4), 161(1), 170(3), 171(1)
9. 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)
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)

**Missouri State**

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## Curricular Action Workflow



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

# Change Program Proposal Form

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Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Comprehensive Major
- Certificate
- Other
- Option
- Certification

Title of Program Affected:

Biology/Wildlife Biology-BS

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

4

**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.

**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

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What is changing? Check all boxes that apply:

- Title change                       From option to program (major)                       Other

4

Course changes of under 18 hours       From program (major) to option

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.

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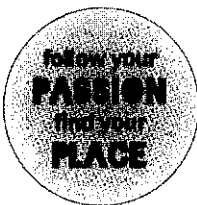
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Proposal Progress:

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## Biology (Comprehensive) (BS)

Bachelor of Science

- A. General Education Requirements - see General Education Program and Requirements section of catalog
- B. Major Requirements

1. BIO 121(4), 122(4), 235(4), 494(1), 550(3)
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 BIO 494(1) and two additional courses from the following: BIO 300(1), 355(4), ~~369(4)~~367(3), 368(1), 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.
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.

### c. Wildlife Biology (67-87 hours total)

1. Required courses: BIO 320(4) or 361(4), ~~369(4)~~367(3), 368(1)
2. Complete two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4)
3. 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)
4. Complete a minimum of 5 hours in management from: BIO 373(3), 485(1-3), 509(4), 532(3), 562(4), 589(3)
5. 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)
6. 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)
7. Complete one course in earth/environmental science: AGN 215(3), CHM 260(3), GLG 110(4), GRY 142(4)

5

Missouri State

# Curricular Action Workflow



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

## Change Program Proposal Form

Submitted on 02/23/2017 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).

Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Comprehensive Major
- Certificate
- Other
- Option
- Certification

Choose All That Apply:

- Bachelor of Arts
- Bachelor of Music Education
- Bach of Science in Athl Training
- Bachelor 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

Title of Program Affected:

Biology

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

Bachelor of Science in Education (Non-Certifiable)  
BIO 121(4), 122(4), 235(4), 320(4), and 369(4).

Not 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)

← → | **B** *I* ~~S~~

5

Biology  
Bachelor of Science in Education (Non-Certifiable)  
BIO 121(4), 122(4), 235(4), 320(4), and 369(4) 367(3), 368(1).

Not Attached

Total Hours: 20

What is changing? Check all boxes that 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

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

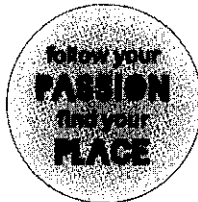
Proposal Progress:

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.

[Redacted]



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6

**Missouri State.**

# 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 Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).

Department:

Biology

Type of Program

Choose One:

- Major (Non-Comprehensive/Graduate Program)
- Minor
- Academic Rules
- Comprehensive Major
- Certificate
- Other
- Option
- Certification

Title of Program Affected:

Wildlife Conservation and Management-Bl Dept-BS

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

6

**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 section of catalog

Specific General Education Requirements: BIO 121(4); GLG 110(4); GRY 100(3); MTH 135(3) or 138(5)

**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)-course deleted-see 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:**

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 573(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), 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 counted toward the Biology requirements or ten 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 determine specific requirements that would result in eligibility to be placed on federal and state registries in Fisheries Biology, Social Science, Wildlife Biology, etc.

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 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)

← → 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
- From program (major) to option
- Course changes of 18 hours or more

Reason for Proposed Change:

6

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.



6

## 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 catalog  
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: AGB 354(2); AGN 351(2); AGP 333(3), 485(3), 583(3)
  2. Biology Requirements:
    - a. BIO 121(4), 122(4), 334(3), 339(2), 373(3)
    - b. Select one course option from: BIO 369(4)**367(3)** and **368(1)**, 436(4), 562(4)
    - c. Select two courses from: BIO 573(3), 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), 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 counted toward the Biology requirements or ten additional hours in Agriculture and/or Biology requirement.
3. Complete CHM 116(4) and 117(1), or CHM 160(4)
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

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Missouri State

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO122 General Biology II

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will 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. Recommended Prerequisite: BIO 121. Second half of two-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. Cannot be taken Pass/Not Pass. A grade of "C" or better is required in this course in order to take BIO 235, BIO 320, or BIO 369. 4(3-3) 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**

BIO 122 General Biology II

Prerequisite: eligibility for both ENG 110 and MTH 135. Recommended Prerequisite: BIO 121. Second half of two-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. Cannot be taken Pass/Not Pass. A grade of "C" or better is required in this course in order to take BIO 235, BIO 320, or BIO 369**367 or 368**. 4(3-3) F,S

What is changing? Check all boxes that apply.



7

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



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**Missouri State.**

**Curricular Action Workflow**



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

**Change Course Proposal Form**

Submitted on 02/24/2017 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).

\*All fields require input

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**

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

**BIO 398: Laboratory Internship in Biology**

Prerequisite: BSEd major in Biology Education, BIO 310, and ~~369~~ **367 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,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* ↺

**BIO 398 Laboratory Internship in Biology**

Prerequisite: BSEd major in Biology Education, BIO 310, and ~~369~~ **367 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,S

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description



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  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
- 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:

No comments have been added to this proposal.



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Missouri State.

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO436 Plant Ecology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO 436 Plant Ecology

Recommended Prerequisite: BIO 369. The dynamics, structure, and distribution of plant populations and communities, with emphasis on interactions among plants, plants and other organisms, and plants and ecosystems. Laboratory emphasis on experimental studies in the greenhouse and field. Weekend field trip is required. May be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636. 4(2-4) F

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

BIO 436 Plant Ecology

Recommended Prerequisite: BIO 369 ~~367~~ and ~~368~~. The dynamics, structure, and distribution of plant populations and communities, with emphasis on interactions among plants, plants and other organisms, and plants and ecosystems. Laboratory emphasis on experimental studies in the greenhouse and field. Weekend field trip is required. May be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636. 4(2-4) F

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite

9

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

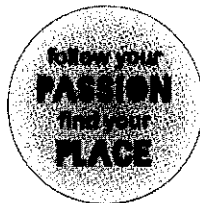
College Council Review

Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.



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Missouri State

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

**BIO509 Stream Ecology**

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

**BIO 509 Stream Ecology**

Prerequisite: BIO 369. Recommended Prerequisite: CHM 171 or higher. The interdisciplinary study of running waters, including study of the physical and chemical environment, trophic interactions, nutrient cycling, and the multiple impacts of humans on modifying these systems. Lectures, group discussion of readings, and laboratory and field exercises. One all-day Saturday field trip required. May be taught concurrently with BIO 609. Cannot receive credit for both BIO 609 and BIO 509. Public Affairs Capstone Experience course. 4(2-4) 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~~

**BIO 509 Stream Ecology**

Prerequisite: **BIO 369 367 and 368**. Recommended Prerequisite: CHM 171 or higher. The interdisciplinary study of running waters, including study of the physical and chemical environment, trophic interactions, nutrient cycling, and the multiple impacts of humans on modifying these systems. Lectures, group discussion of readings, and laboratory and field exercises. One all-day Saturday field trip required. May be taught concurrently with BIO 609. Cannot receive credit for both BIO 609 and BIO 509. Public Affairs Capstone Experience course. 4(2-4) S

What is changing? Check all boxes that apply.

10

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

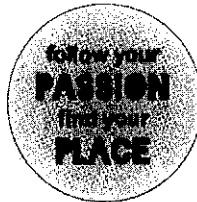
College Council Review

Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.



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**Missouri State**

**Curricular Action Workflow**



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

**Change Course Proposal Form**

Submitted on 02/24/2017 by Rachel Rigby ([RachelRigby@MissouriState.edu](mailto:RachelRigby@MissouriState.edu)).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO530 Phycology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO 530 Phycology

Prerequisite: BIO 369. The structure, function, ecological significance, and diversity of algae. Emphasis will be placed on field studies, isolation and growth, and physiological characteristics. May be taught concurrently with BIO 629. Cannot receive credit for both BIO 629 and BIO 530. 3(2-2) 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>B</b>	<b>I</b>	<b>S</b>
BIO 530 Phycology				
Prerequisite: <del>BIO 369</del> <b>367 and 368</b> . The structure, function, ecological significance, and diversity of algae. Emphasis will be placed on field studies, isolation and growth, and physiological characteristics. May be taught concurrently with BIO 629. Cannot receive credit for both BIO 629 and BIO 530. 3(2-2) S				

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description



11

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  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
- 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:

No comments have been added to this proposal.



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Missouri State.

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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 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO532 Principles of Fisheries Management

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Current online catalog description:

BIO 532 Principles of Fisheries Management

Prerequisite: BIO 369 or BIO 373. Life history, population ecology, and management of exploited freshwater and marine species. Scientific sampling and analysis of fishery populations. Characterization, history, and management principles for representative commercial and recreational fisheries. May be taught concurrently with BIO 632. Cannot receive credit for both BIO 632 and BIO 532. 3(2-2) 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.)

Rich text editor with formatting icons (back, forward, bold, italic, strikethrough) and the revised text: BIO 532 Principles of Fisheries Management. Prerequisite: BIO 369 367 and 368 or BIO 373. Life history, population ecology, and management of exploited freshwater and marine species. Scientific sampling and analysis of fishery populations. Characterization, history, and management principles for representative commercial and recreational fisheries. May be taught concurrently with BIO 632. Cannot receive credit for both BIO 632 and BIO 532. 3(2-2) S

What is changing? Check all boxes that apply.

- Course Code
Course Number (Check Availability)
Title
Prerequisite

12

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



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Missouri State.

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO533 Wetland Ecology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO 533 Wetland Ecology

Prerequisite: BIO 369. Recommended Prerequisite: CHM 171 or higher. The composition, structure, function, and importance of wetland ecosystems. Comparisons of different wetland types, hydrology, nutrient cycles, plants and animals and their adaptations, and conservation strategies. May be taught concurrently with BIO 633. Cannot receive credit for both BIO 633 and BIO 533. 3(2-2) D

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**

BIO 533 Wetland Ecology

Prerequisite: **BIO 369 367 and 368**. Recommended Prerequisite: CHM 171 or higher. The composition, structure, function, and importance of wetland ecosystems. Comparisons of different wetland types, hydrology, nutrient cycles, plants and animals and their adaptations, and conservation strategies. May be taught concurrently with BIO 633. Cannot receive credit for both BIO 633 and BIO 533. 3(2-2) D

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite

13

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

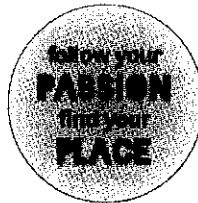
College Council Review

Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.



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14

Missouri State.

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input  
This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO537 Salt Marsh Plant Ecology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO 537 Salt Marsh Plant Ecology

Prerequisite: BIO 122 and BIO 334 and BIO 369 and BIO 544; and concurrent enrollment in BIO 538. A study with emphasis on the botanical aspects of local marshes; includes plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 637. Cannot receive credit for both BIO 637 and BIO 537. 2(2-0) Su

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**

BIO 537 Salt Marsh Plant Ecology

Prerequisite: BIO 122, and BIO 334, and BIO 369 **367 and 368**, and BIO 544; and concurrent enrollment in BIO 538. A study with emphasis on the botanical aspects of local marshes; includes plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 637. Cannot receive credit for both BIO 637 and BIO 537. 2(2-0) Su

What is changing? Check all boxes that apply.

14

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



15

Missouri State

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby ([RachelRigby@MissouriState.edu](mailto:RachelRigby@MissouriState.edu)).

\*All fields require input  
This proposal applies to:

An existing COURSE

An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:  
**BIO562 Limnology**

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

**BIO 562 Limnology**

Prerequisite: ~~BIO 369~~ **367 and 368**. Recommended Prerequisite: CHM 171 or higher. Physical, chemical, and biological characteristics of lakes and reservoirs. Laboratory includes mapping, lake models, water chemistry, and surveys of diversity and abundance. Two all-day Saturday labs required. May be taught concurrently with BIO 662. Cannot receive credit for both BIO 662 and BIO 562. 4(2-4) F

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**

**BIO 562 Limnology**

Prerequisite: ~~BIO 369~~ **367 and 368**. Recommended Prerequisite: CHM 171 or higher. Physical, chemical, and biological characteristics of lakes and reservoirs. Laboratory includes mapping, lake models, water chemistry, and surveys of diversity and abundance. Two all-day Saturday labs required. May be taught concurrently with BIO 662. Cannot receive credit for both BIO 662 and BIO 562. 4(2-4) F

What is changing? Check all boxes that apply.

- Course Code       Course Number (Check Availability)       Title       Prerequisite



15

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

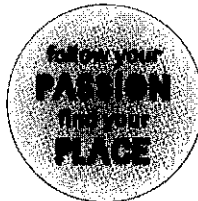
College Council Review

Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.



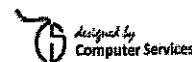
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16

Missouri State

Curricular Action Workflow



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

# Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby ([RachelRigby@MissouriState.edu](mailto:RachelRigby@MissouriState.edu)).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

**BIO563 Population Ecology**

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

**BIO 563 Population Ecology**

Prerequisite: BIO 369; and MTH 138 or higher. Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized. May be taught concurrently with BIO 663. Cannot receive credit for both BIO 663 and BIO 563. 3(2-2) SE

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* ↺

**BIO 563 Population Ecology**

Prerequisite: **BIO 369 367 and 368**; and MTH 138 or higher. Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized. May be taught concurrently with BIO 663. Cannot receive credit for both BIO 663 and BIO 563. 3(2-2) SE

What is changing? Check all boxes that apply.

- Course Code
- Course Number ([Check Availability](#))
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

16

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  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
- 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:

No comments have been added to this proposal.



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17

**Missouri State.**

**Curricular Action Workflow**



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

**Change Course Proposal Form**

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO564 Ozarks Natural Communities

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO:564 Ozarks Natural Communities

Recommended Prerequisite: BIO 369, Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. May be taught concurrently with BIO 664. Cannot receive credit for both BIO 564 and BIO 664. 2(1-2) D

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~~

BIO 564 Ozarks Natural Communities

Recommended Prerequisite: **BIO 369 367 and 368**. Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. May be taught concurrently with BIO 664. Cannot receive credit for both BIO 564 and BIO 664. 2(1-2) D

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite

17

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



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17a

**Missouri State.**

**Curricular Action Workflow**



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

**Change Course Proposal Form**

Submitted on 02/24/2017 by Rachel Rigby ([RachelRigby@MissouriState.edu](mailto:RachelRigby@MissouriState.edu)).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

**BIO664 Ozarks Natural Communities**

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

**BIO 664 Ozarks Natural Communities**

**Recommended Prerequisite: BIO 369, 367 and 368.** Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. May be taught concurrently with BIO 564. Cannot receive credit for both BIO 664 and BIO 564. 2(1-2) D

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**

BIO 664 Ozarks Natural Communities

**Recommended Prerequisite: BIO 369 367 and 368.** Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. May be taught concurrently with BIO 564. Cannot receive credit for both BIO 664 and BIO 564. 2(1-2) D

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite

17a

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

Grad Council Review

Proposal Progress:

02/24/2017 - Submitted by Department Head (S Mathis)  
02/27/2017 - Reviewed by Dean (Tamera Jahnke)

Review Comments:

No comments have been added to this proposal.



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18

Missouri State

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO567 Physiological Ecology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

BIO 567 Physiological Ecology

Prerequisite: BIO 369; and either BIO 361 or BIO 544 or BMS 308. Physiological adaptations of plants and animals to environmentally stressful conditions and to ecological/evolutionary pressures. May be taught concurrently with BIO 668. Cannot receive credit for both BIO 668 and BIO 567. 4(4-0) SO

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**

BIO 567 Physiological Ecology

Prerequisite: BIO 369 **367 and 368**; and either BIO 361 or BIO 544 or BMS 308. Physiological adaptations of plants and animals to environmentally stressful conditions and to ecological/evolutionary pressures. May be taught concurrently with BIO 668. Cannot receive credit for both BIO 668 and BIO 567. 4(4-0) SO

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description



18

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  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
- 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:

No comments have been added to this proposal.



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19

Missouri State.

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input

This proposal applies to:

- Radio buttons for 'An existing COURSE' and 'An existing REGULAR (e.g. permanent) SECTION of a variable content ...'

Existing Course:

BIO578 Behavioral Ecology

Will this proposal need to be reviewed by CGEIP? [X] No [ ] Yes

Will this proposal need to be reviewed by EPPC? [X] No [ ] Yes

Current online catalog description:

BIO 578 Behavioral Ecology

Recommended Prerequisite: BIO 369 and BIO 550. Fundamental principles of animal behavior with an emphasis on the study of the ecological and evolutionary processes that influence behavior. May be taught concurrently with BIO 678. Cannot receive credit for both BIO 678 and BIO 578. Public Affairs Capstone Experience course. 4(3-2) 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.)

Rich text editor toolbar with icons for undo, redo, bold, italic, and strikethrough.

BIO 578 Behavioral Ecology

Recommended Prerequisite: BIO 369 **367 and 368**; and BIO 550. Fundamental principles of animal behavior with an emphasis on the study of the ecological and evolutionary processes that influence behavior. May be taught concurrently with BIO 678. Cannot receive credit for both BIO 678 and BIO 578. Public Affairs Capstone Experience course. 4(3-2) S

What is changing? Check all boxes that apply.

- Checkboxes for 'Course Code', 'Course Number (Check Availability)', 'Title', and 'Prerequisite'.

19

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



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20

Missouri State

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input
This proposal applies to:

- Radio buttons for 'An existing COURSE' (selected) and 'An existing REGULAR (e.g. permanent) SECTION of a variable content course.'

Existing Course:

BIO579 Conservation Biology

Will this proposal need to be reviewed by CGEIP? [X] No [ ] Yes

Will this proposal need to be reviewed by EPPC? [X] No [ ] Yes

Current online catalog description:

BIO 579 Conservation Biology

Prerequisite: BIO 235 and BIO 369. An in-depth examination of the science of conservation from a biological perspective, with an examination of ethical and legal aspects of conservation. May be taught concurrently with BIO 679. Cannot receive credit for both BIO 679 and BIO 579. Public Affairs Capstone Experience course. 4(3-2) D

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.)

Rich text editor with icons for undo, redo, bold, italic, strikethrough, and text content: BIO 579 Conservation Biology, Prerequisite: BIO 235; and BIO 369 367 and 368. An in-depth examination of the science of conservation from a biological perspective, with an examination of ethical and legal aspects of conservation. May be taught concurrently with BIO 679. Cannot receive credit for both BIO 679 and BIO 579. Public Affairs Capstone Experience course. 4(3-2) D

What is changing? Check all boxes that apply.

- Checkboxes for Course Code, Course Number (Check Availability), Title, and Prerequisite (checked)

20

- Credit Hours/Contact Hours
- Periodicity
- Description

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  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
- 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:

No comments have been added to this proposal.



21

Missouri State.

Curricular Action Workflow



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

Change Course Proposal Form

Submitted on 02/24/2017 by Rachel Rigby (RachelRigby@MissouriState.edu).

\*All fields require input
This proposal applies to:

- Radio buttons for 'An existing COURSE' (selected) and 'An existing REGULAR (e.g. permanent) SECTION of a variable content course.'

Existing Course:

BIO584 Fish Ecology

Will this proposal need to be reviewed by CGEIP? [X] No [ ] Yes

Will this proposal need to be reviewed by EPPC? [X] No [ ] Yes

Current online catalog description:

BIO 584 Fish Ecology

Prerequisite: BIO 369 and BIO 575. The biology of fishes in relation to environmental conditions at the individual, population, and community levels. May be taught concurrently with BIO 686. Cannot receive credit for both BIO 686 and BIO 584. Public Affairs Capstone Experience course. 3(3-0) 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.)

Rich text editor with toolbar (undo, redo, bold, italic, strikethrough) and content: BIO 584 Fish Ecology. Prerequisite: BIO ~~369~~ **367 and 368**; and BIO 575. The biology of fishes in relation to environmental conditions at the individual, population, and community levels. May be taught concurrently with BIO 686. Cannot receive credit for both BIO 686 and BIO 584. Public Affairs Capstone Experience course. 3(3-0) S

What is changing? Check all boxes that apply.

- Checkboxes for Course Code, Course Number (Check Availability), Title, Prerequisite, Credit Hours/Contact Hours, Periodicity, and Description.

21

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  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
- 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:

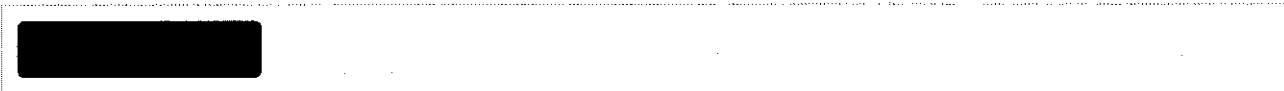
College Council Review

Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.



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Missouri State.

Curricular Action Workflow



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

New Course Proposal Form

Submitted on 02/24/2017 by Brian Greene (Briangreene@missouristate.edu).

\*All fields require input

- New COURSE
New REGULAR PERMANENT SECTION of an existing variable content course.

Course Code: BIO Course Number: (Check Availability) 367

Course Title: General Ecology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Prerequisite/Co-requisite or enter 'None': BIO 122 and MTH 135 or higher

General Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.) Introduction to the basic concepts of ecology. Public Affairs Capstone Experience course.

Credit Hours: 3 Lecture Contact Hours: 3 Lab Contact Hours: 0

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall, Spring, Fall (even-numbered years only), Spring (even-numbered years only), Fall (odd-numbered years only), Spring (odd-numbered years only)



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Summer  On Demand only

Complete Catalog Description:

BIO 367 General Ecology

Prerequisite: BIO 122 and MTH 135 or higher

Introduction to the basic concepts of ecology. Public Affairs Capstone Experience course.

Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0

Typically offered: Fall, Spring, Summer

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of PDF, DOC or DOCX.

[Redacted]

Attached

Purpose of Course

To introduce Biology majors and minors to the basic concepts of ecology.

Relationship to Other Departments

General Ecology is required for three degrees within the College of Agriculture. These are Environmental Plant Science, Wildlife Conservation & Management, and the Forestry minor. The appropriate departments have already been contacted about the proposed change.

Is there a graduate/undergraduate parallel course to this one?  No  Yes

New Course Resource Information

Anticipated Average Enrollment per section:	<input type="text" value="65"/>	Maximum Enrollment Limit per section:	<input type="text" value="95"/>
Anticipated Average Enrollment per semester:	<input type="text" value="65"/>	Maximum Enrollment Limit per semester:	<input type="text" value="95"/>
Anticipated Average Enrollment per year:	<input type="text" value="145"/>	Maximum Enrollment Limit per year:	<input type="text" value="214"/>
Faculty Load Assignment (equated hours):	<input type="text" value="3"/>		

Is another course being deleted?  No  Yes

Select course number and title being deleted.

BIO369 General Ecology

What will this course require in the way of:

Additional library Holdings

None

Additional computer resources

None

Additional or remodeled facilities

None

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Additional equipment or supplies

None

Additional travel funds

None

Additional faculty; general vs specialized

None

Additional faculty; regular vs per-course

None

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.

# BIO 367 – General Ecology

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*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.

<b>Points</b>	
4 lecture exams @ 100 pts	400
Final exam (comprehensive & optional)	100
<b>Total</b>	<b>500</b>

<b>Grading</b>	
447-500 (89.5-100%)	A
397-446 (79.5-89%)	B
347-396 (69.5-79%)	C
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

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**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), [www.missouristate.edu/disability](http://www.missouristate.edu/disability). 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, <http://psychology.missouristate.edu/lcdc>.

**Non-discrimination Policies:** Missouri State University is an equal opportunity/affirmative action institution, and maintains a grievance procedure available to any person who believes he or she has been discriminated against. At all times, it is your right to address inquiries or concerns about possible discrimination to the Office for Equity and Diversity, Park Central Office Building, 117 Park Central Square, Suite 111, (417) 836-4252. Other types of concerns (i.e., concerns of an academic nature) should be discussed directly with your instructor and can also be brought to the attention of your instructor's Department Head. Please visit the OED website at [www.missouristate.edu/equity/](http://www.missouristate.edu/equity/).

**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 [www.missouristate.edu/policy/academicintegritystudents.htm](http://www.missouristate.edu/policy/academicintegritystudents.htm). 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 <http://www.missouristate.edu/safetran/51597.htm> and <http://www.missouristate.edu/safetran/erp.htm>

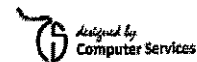
## Lecture Schedule (MWF 12:20-1:10)

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Date	Topic	Text
January 16	<b>No Class – Martin Luther King Jr. Holiday</b>	
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)	
<b>February 1</b>	Terrestrial communities	Chapter 4
3		
<b>6</b>	Aquatic communities	Chapter 5
8	<b>Exam 1</b>	
10	Behavioral Ecology	Chapter 6
13		
15	Variation within species	Chapter 7
17		
20	<b>No Class-President's Day Holiday</b>	
22	Population Ecology – demography	Chapter 8
24		
27	Population regulation	Chapter 9
<b>March 1</b>	Life History	Chapter 10
3		
6	<b>Exam 2</b>	
8	Community Ecology – competition	Chapter 11
10		
13, 15, 17	<b>No class – Spring Break</b>	
20	Coevolution – consumer-resource interactions	Chapter 12
22		
24	Commensalism and mutualism	
27		
29	Community structure	Chapter 13
31		
<b>April 3</b>	Ecological succession	Chapter 14
5		
7	Species diversity	Chapter 15
10		
12	<b>Exam 3</b>	
14	<b>No class – Spring Holiday</b>	
17	Energy flow and trophic structure	Chapter 16
19		
21	Biogeochemical Cycles	Chapter 17
24		
26	Conservation Biology	Chapter 18
28		
<b>May 1</b>	Landscape Ecology	Chapter 19
3		
5	The influence of humans on the global environment	Chapter 20
8		
10	<b>Exam 4</b>	
12	<b>No Class – Study Day</b>	
15 (Monday)	<b>11:00-1:00 (LIBR 101)</b>	

**Missouri State.**

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**Curricular Action Workflow**

Missouri State &gt; Computer Services - MIS &gt; Curricular Action Workflow &gt; CAW - New Course Proposal Form

**New Course Proposal Form**

Submitted on 02/24/2017 by Brian Greene (Briangreene@missouristate.edu).

\*All fields require input

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

BIO

Course Number: (Check Availability)

368

Course Title:

General Ecology Lab

Will this proposal need to be reviewed by CGEIP?  No  YesWill this proposal need to be reviewed by EPPC?  No  Yes

Prerequisite/Co-requisite or enter 'None':

BIO 368

General Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

Methods used in ecological studies. Intended to emphasize sampling techniques and data analyses pertinent to lecture material in BIO 367.

Credit Hours:

1

Lecture Contact Hours:

0

Lab Contact Hours:

2

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall  Fall (even-numbered years only)  Fall (odd-numbered years only)
- Spring  Spring (even-numbered years only)  Spring (odd-numbered years only)

23

Summer  On Demand only

Complete Catalog Description:

BIO 368 General Ecology Lab

Prerequisite: BIO 368

Methods used in ecological studies. Intended to emphasize sampling techniques and data analyses pertinent to lecture material in BIO 367.

Credit hours: 1 Lecture contact hours: 0 Lab contact hours: 2

Typically offered: Fall, Spring, Summer

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of PDF, DOC or DOCX.

Attached

Purpose of Course

To introduce students to the methods used in ecological studies.

Relationship to Other Departments

General ecology is required for three degrees within the College of Agriculture. These are: Environmental Plant Science, Wildlife Conservation & Management, and the Forestry minor. The appropriate departments have already been contacted about the proposed change.

Is there a graduate/undergraduate parallel course to this one?  No  Yes

New Course Resource Information

Anticipated Average Enrollment per section:	<input type="text" value="65"/>	Maximum Enrollment Limit per section:	<input type="text" value="95"/>
Anticipated Average Enrollment per semester:	<input type="text" value="65"/>	Maximum Enrollment Limit per semester:	<input type="text" value="95"/>
Anticipated Average Enrollment per year:	<input type="text" value="145"/>	Maximum Enrollment Limit per year:	<input type="text" value="214"/>
Faculty Load Assignment (equated hours):	<input type="text" value="2"/>		

Is another course being deleted?  No  Yes

Select course number and title being deleted.

BIO369 General Ecology

What will this course require in the way of:

Additional library Holdings

None

Additional computer resources

None

Additional or remodeled facilities

None

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Additional equipment or supplies

None

Additional travel funds

None

Additional faculty; general vs specialized

None

Additional faculty; regular vs per-course

None

Other additional expenses

None

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:

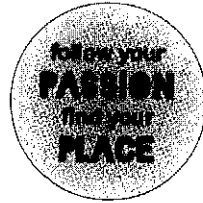
02/24/2017 - Submitted by Department Head (S Mathis)

Review Comments:



No comments have been added to this proposal.

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# BIO 368 – General Ecology Laboratory

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## Syllabus and Course Policies

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### 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:**

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### 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
Data collection for field labs (4@5 points)	20
<b>Total</b>	<b>170</b>

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

**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

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**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), [www.missouristate.edu/disability](http://www.missouristate.edu/disability). 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, <http://psychology.missouristate.edu/lcd>.

**Non discrimination Policies:** Missouri State University is an equal opportunity/affirmative action institution, and maintains a grievance procedure available to any person who believes he or she has been discriminated against. At all times, it is your right to address inquiries or concerns about possible discrimination to the Office for Equity and Diversity, Park Central Office Building, 117 Park Central Square, Suite 111, (417) 836-4252. Other types of concerns (i.e., concerns of an academic nature) should be discussed directly with your instructor and can also be brought to the attention of your instructor's Department Head. Please visit the OED website at [www.missouristate.edu/equity/](http://www.missouristate.edu/equity/).

**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 [www.missouristate.edu/policy/academicintegritystudents.htm](http://www.missouristate.edu/policy/academicintegritystudents.htm). 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:** Students have a responsibility to other students to avoid disruption of the learning environment. Ringing cell phones are disruptive to classes. Therefore, 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 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 <http://www.missouristate.edu/safetran/51597.htm> and <http://www.missouristate.edu/safetran/erp.htm>

Sample Laboratory Schedule (from fall 2016 semester)

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)	<b>Crayfish lab report due</b>
8		Predator functional response simulation	
9		<b>Quiz 1</b>	
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	<b>Forest community lab report due</b>
14		<b>No Labs – Thanksgiving Holiday</b>	
15		Resource/review day	
16		<b>Quiz 2</b>	<b>Project due</b>

\*\* Lab reports will be based on these exercises

**Missouri State**

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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 02/13/2017 by Ronald Malega (RMalega@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

PLN367 Planning Methods

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

PLN 367 Planning Methods

Prerequisite: SOC 302. Introduces data collection, sampling methods, statistical procedures and analysis, changing demographic characteristics, economic analysis, population projection methodologies and computer application in data analysis. Cannot receive credit for both PLN 367 and GRY 367. 3(3-0) F

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

PLN 367 Planning Methods

Prerequisite: **AGR 330 or MTH 340 or PSY 200 or QBA 237 or REC 328 or SOC 302.** Introduces data collection, sampling methods, statistical procedures and analysis, changing demographic characteristics, economic analysis, population projection methodologies and computer application in data analysis. Cannot receive credit for both PLN 367 and GRY 367. 3(3-0) F

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

24

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

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
- 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)

02/03/2017

Current Status:

College Council Review

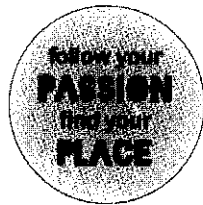
Proposal Progress:

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

Review Comments:

No comments have been added to this proposal.

[Redacted comment box]



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Missouri State

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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 (WBray@MissouriState.edu).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

MTH181 Trigonometry

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

MTH 181 Trigonometry

Prerequisite: "C" grade or better in MTH 135 or appropriate placement score. General Education Course (Focus on Quantitative Literacy). Triangle trigonometry and its applications; trigonometric and inverse trigonometric functions; trigonometric identities and equations; Rational, exponential and logarithmic functions. Cannot receive credit toward graduation for both MTH 181 and MTH 138. Cannot count toward a mathematics major or minor. A grade of "C" or better is required in this course in order to take MTH 287. Cannot be taken Pass/Not

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 181 Trigonometry

Prerequisite: "C" grade or better in MTH 135 or appropriate placement score. ~~General Education Course (Focus on Quantitative Literacy).~~ Triangle trigonometry and its applications; trigonometric and inverse trigonometric functions; trigonometric identities and equations; Rational, exponential and logarithmic functions. Cannot receive credit toward graduation for both MTH 181 and MTH 138. Cannot count toward a mathematics major or minor. A grade of "C" or better is required in this course in order to take MTH 287. Cannot be taken Pass/Not Pass. 3(3-0) F,S

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite

25

- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

This change removes MTH 181 as a Quantitative Literacy course in General Education.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  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
- Accreditation/certification compliance
- Review of catalog information

Other (be specific): MTH 181 has MTH 135 as prerequisite and the latter satisfies the Quantitative Literacy Goals in General Education. Students who place into MTH 181 (by passing MTH 135) and pass MTH 181 with a C or better will have the QL requirement automatically met.

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)

02/01/2017

Current Status:

College Council Review

Proposal Progress:

02/22/2017 - Submitted by Department Head (William Bray)

Review Comments:

No comments have been added to this proposal.



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Missouri State

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 (WBray@MissouriState.edu).

\*All fields require input

This proposal applies to:

- Radio buttons for 'An existing COURSE' (checked) and 'An existing REGULAR (e.g. permanent) SECTION of a variable content course.'

Existing Course:

MTH261 Analytic Geometry and Calculus I

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

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.)

Rich text editor with toolbar (back, forward, bold, italic, strikethrough) and content: 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

What is changing? Check all boxes that apply.

- Checkboxes for Course Code, Course Number (Check Availability), Title, Prerequisite

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- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

This change removes MTH 261 as a Quantitative Literacy course in General Education.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  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
- Accreditation/certification compliance
- Review of catalog information

Other (be specific): Prerequisites for MTH 261 are in the list of Quantitative Literacy courses under General Education. This streamlines the QL portion of General Education.

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)

02/01/2017

Current Status:

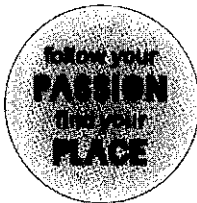
College Council Review

Proposal Progress:

02/22/2017 - Submitted by Department Head (William Bray)

Review Comments:

02/22/2017 - Department Head Review - William Bray - QL requirement of students who place into MTH 261 will be met by enrolling into MTH 261 and passing with a C or better.



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Missouri State.

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 ([WBray@MissouriState.edu](mailto:WBray@MissouriState.edu)).

\*All fields require input

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

MTH287 Computational Calculus with Analytic Geometry I

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Current online catalog description:

MTH 287 Computational Calculus with Analytic Geometry I

Prerequisite: "C" or better in MTH 135 or MTH 138, or an approved score on a department placement test. General Education Course (Focus on Quantitative Literacy). Introduction to the concepts and methods of analytic geometry and differential and integral calculus with emphasis on applications in the natural sciences and technology. Cannot receive credit toward graduation for both MTH 287 and MTH 261. Cannot receive credit for both MTH 287 and MTH 285. A grade of "C" or better is required in this course in order to take MTH 288. Cannot be taken Pass/Not Pass. 3(3-0) F.

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 287 Computational Calculus with Analytic Geometry I

Prerequisite: "C" or better in MTH 135 or MTH 138, or an approved score on a department placement test. ~~General Education Course (Focus on Quantitative Literacy).~~ Introduction to the concepts and methods of analytic geometry and differential and integral calculus with emphasis on applications in the natural sciences and technology. Cannot receive credit toward graduation for both MTH 287 and MTH 261. Cannot receive credit for both MTH 287 and MTH 285. A grade of "C" or better is required 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.

27

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

This change removes MTH 287 as a Quantitative Literacy course under General Education.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  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
- Accreditation/certification compliance
- Review of catalog information
- Other (be specific): Prerequisites for MTH 287 satisfy the Quantitative Literacy goals under General Education. This streamlines the QL portion of General Education
- 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)

02/01/2017

Current Status:

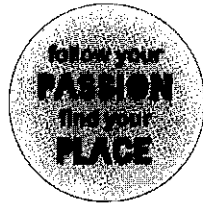
College Council Review

Proposal Progress:

02/22/2017 - Submitted by Department Head (William Bray)

Review Comments:

02/22/2017 - Department Head Review - William Bray - Students who place into MTH 287 will meet the QL requirement by enrolling in MTH 287 and passing with a C or better.



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