

Change Course Proposal Form

Submitted on 04/09/2024 by La Toya Kissoon-Charles (LKissoon@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:

BIO547 Water Resources

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

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

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

Enter parallel course number

BIO647 Water Resources

How do these classes differ?

The graduate level version of the course has additional expectations (assignments, exam questions, etc.) beyond those required in undergraduate version.

Current online catalog description:

BIO 547 Water Resources

Prerequisite: BIO 122 or GLG 110 or GLG 171 or GRY 142. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with GLG 547. Cannot receive credit for both BIO 547 and GLG 547. May be taught concurrently with BIO 647. Cannot receive credit for both BIO 547 and BIO 647. 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.)

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BIO 547 Water Resources

Prerequisite: BIO 122 or **GLG 113 or GLG 114 or GLG 115 or GRY 145** ~~GLG 110 or GLG 171 or GRY 142~~. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with GLG 547. Cannot receive credit for both BIO 547 and GLG 547. May be taught concurrently with BIO 647. Cannot receive credit for both BIO 547 and BIO 647. Public Affairs Capstone Experience course. 3(3-0) S

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What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geology and geography programs are changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
GLG 171(3) --> GLG 114(3)
GLG 115(3) --> no change to name or number
GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

Also, in alignment with our decision to allow GLG 115 to count as an intro course to the major, we are including that course in the prerequisites. We are not requiring the lab as a prerequisite (i.e., GLG 116) since previously students could take this course with the non-lab GLG 171.

We have requested that the Biology Department make analogous changes to BIO 547 and 647.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

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):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

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)

03/01/2024

Current Status:

College Council Review

Proposal Progress:

04/09/2024 - Submitted by Department Head (Kyoungtae Kim)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

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Change Program Proposal Form

Submitted on 04/24/2024 by D Wait (Alexanderwait@missouristate.edu).

Department:

Biology

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major Option
 Comprehensive Undergraduate Major Minor
 Graduate Program Certificate

Does this program include any new courses?

- No Yes (A corresponding new course form must be submitted to create each new course.)

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)*

Environmental Biology and Evolution option (72-85 hours total for major)

BIO 367(3), 368(1), 515(3).

One course in biodiversity and evolution: BIO 334(3), 339(2), 370(4), 371(3), 380(5), 530(3), 575(3), 576(3), 577(3); the following courses taught during the summer at the Gulf Coast Ocean Springs, Mississippi: BIO 534(2) and 535(1); 555(3), 556(3), 587(3), 588(3).

One course in population biology: BIO 436(4), 505(3), 532(3), 540(4), 560(3), 563(3), 567(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Labc Springs, Mississippi: BIO 557(2) and 558(2).

Three hours in community/ecosystem biology: BIO 373(3), 485(1-3), 504(3), 508(3), 509(3), 547(3), 562(4), 564(2), 579(3); the following courses taught during the summer at the Gu Laboratory in Ocean Springs, Mississippi: BIO 537(2), 538(2), 565(3), 566(2).

One biology course with a substantial field component. A course used to satisfy this requirement counted toward the biodiversity, population biology, and community/ecosystem biology described above. Complete one of the following: BIO 334(3), 339(2), 370(4), 436(4), 509(3), 564(2), 574(2), 575(3), 576(3), 577(3), any biology course taught at the Gulf Coast Research Labc biology course taught at the Bull Shoals Field station or another field station (with the approval of the instructor). Zero to eight hours of elective BIO courses at the level of 300 or higher to total a minimum of 72 hours of biology.

One of the following mathematics, statistics, or computer programming courses: MTH 260(3), 125(4), CSC 130(3), CSC 587(3), BIO 551(2), PSY 527(3).

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

One of the following related science courses: AGN 215(3), ANT 305(3), ANT 375(3); CHM 171(3) GLG 141, GRY 351(3).

One of the following related fields of study courses: BIO 561(2), ECO 540(3), GEO 363(4), GEO 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~~

Environmental Biology and Evolution option (72-85 hours total for major)
BIO 367(3), 368(1), 515(3).
One course in biodiversity and evolution: 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), 578(4), 584(3), 589(3); the following courses taught during the summer at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi: BIO 534(2) and 535(1); 555(3), 556(3), 587(3), 588(3).
One course in population biology: 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) and 558(2).
Three hours in community/ecosystem biology: BIO 373(3), 485(1-3), 504(3), 508(3), 509(4), 533(3), 539(3), 547(3), 562(4), 564(2), 579(3); 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).
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(4), 527(1-4), 562(4), 564(2), 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).
Zero to eight hours of elective BIO courses at the level of 300 or higher to total a minimum of 43 hours in biology.
One of the following mathematics, statistics, or computer programming courses: MTH 261(5), MTH 287(3), CSC 125(4), CSC 130(3), CSC 587(3), BIO 551(2), PSY 527(3).
Related requirements in chemistry: CHM 160(4), 161(1), 170(3), 171(1).
One of the following related science courses: AGN 215(3), ANT 305(3), ANT 375(2), CHM 266(2), 466(2), BIO 171(2), BIO 111(2), BIO 112(2), PSY 251(2)

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Not Attached

Total Hours:

What is changing? Check all boxes that apply:

Title change

- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

SEES submitted changes for GLG 171 - changed to GLG 114, and we are making changes to reflect forthcoming course number.

Reason for Proposed Change:

SEES submitted changes for GLG 171 - changed to GLG 114, and we are making changes to reflect forthcoming course number.

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

04/05/2024

Current Status:

College Council Review

Proposal Progress:

04/24/2024 - Submitted by Department Head (Kyoungtae Kim)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

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Change Program Proposal Form

**Submitted on 04/06/2024 by Georgianna
Saunders (Gigisaunders@missouristate.edu).**

Department:

Biology

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
 Comprehensive Undergraduate Major
 Graduate Program
- Option
 Minor
 Certificate

Does this program include any new courses?

No Yes (A corresponding new course form must be submitted to create each new course.)

Title of Program Affected:

Biology/Pre-Teacher Education-BS

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

Biology (Comprehensive) (BS)

Bachelor of Science

Major requirements

Major core:

BIO 121(4), 122(4), 235(3), 236(1), 302(1), 492(0), 550(3).

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

MTH 137(3) or 138(5), or eligibility for MTH 261 on mathematics placement test.

BIO 312(3) and 313(2) or BIO 320(4) or 361(4) or 544(4); consult options below before sel

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

CHM 201(3) and 202(2), or CHM 302(5) or 342(3) and 343(2); consult options below befc

Public Affairs Capstone Experience will be fulfilled by completion of BIO 302(1), 492(0) a

courses from the following: BIO 300(1), 355(4), 367(3), 370(4), 373(3), 398(1), 399(1-3), 48

3), 501(2), 505(3), 508(3), 509(4), 511(4), 512(3), 520(3), 527(1-4), 539(3), 547(3), 561(2), 57

576(3), 577(3), 578(4), 579(3), 584(3), 589(3). Courses may also be used to satisfy option

University level requirements:

General Education Program and Requirements

General Baccalaureate Degree Requirements

Complete one of the following options:

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

Pre-Teacher Education option (72-74 hours total for major)

This option is designed for students preparing to enter post-graduate studies to become science teach. This program does not include courses in teacher education that are req Missouri for certification as a teacher. Certification requirements can be met through pos programs or master's program at Missouri State University.

BIO 312(3), 313(2), 361(4), 367(3), 368(1), 515(3).

Nine additional hours of upper division Biology courses.

Related chemistry courses: CHM 160(4), 161(1), 170(3), 171(1); CHM 201(3) and 202(2), or C

Related science courses: GLG 110(4); GRY 135(4); SCI 505(3).

Related mathematics requirement. One course from: MTH 137(3), or eligibility for MTH 261 Placement test.

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~~

Biology (Comprehensive) (BS)
Bachelor of Science
Major requirements
Major core:
BIO 121(4), 122(4), 235(3), 236(1), 302(1), 492(0), 550(3).
PHY 123(4) or 203(5) and PHY 124(4) or 204(5).
MTH 137(3) or 138(5), or eligibility for MTH 261 on mathematics placement test.
BIO 312(3) and 313(2) or BIO 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(3) and 343(2); consult options below before selecting course.
Public Affairs Capstone Experience will be fulfilled by completion of BIO 302(1), 492(0) and two additional courses from the following: BIO 300(1), 355(4), 367(3), 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(3), 547(3), 561(2), 573(3), 574(2), 575(3), 576(3), 577(3), 578(4), 579(3); Courses may also be used to satisfy option requirements.
University level requirements:
General Education Program and Requirements
General Baccalaureate Degree Requirements
Complete one of the following options:
Note: With approval of advisor, up to three hours of the following can be substituted for one of the BIO courses listed in any option: BIO 300, 399, 499, or 597.
Pre-Teacher Education option (72-74 hours total for major)
This option is designed for students preparing to enter post-graduate studies to become a high school science teach. This program does not include courses in teacher education that are required by the state of Missouri for certification as a teacher. Certification requirements can be met through postbaccalaureate programs or master's program at Missouri State University.
BIO 312(3), 313(2), 361(4), 367(3), 368(1), 515(3).

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Not Attached

Total Hours:

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

Reason for Proposed Change:

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

Current Status:

College Council Review

Proposal Progress:

04/06/2024 - Submitted by Department Head (Kyoungtae Kim)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

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Change Program Proposal Form

**Submitted on 04/29/2024 by Keiichi
Yoshimatsu (KYoshimatsu@MissouriState.edu).**

Department:

Chemistry & Biochemistry

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
 Comprehensive Undergraduate Major
 Graduate Program
- Option
 Minor
 Certificate

Does this program include any new courses?

- No Yes (A corresponding new course form must be submitted to create each new course.)

Title of Program Affected:

Foundations of Pharmaceutical Science- Undergrad Certificate

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

This certificate is jointly offered by the Department of Chemistry, Department of Biology, of Biomedical Science and provides students with broad exposure to foundational courses required for pursuit of a Doctor of Pharmacy or a career in pharmaceutical sciences.

This certificate is administered by the Department of Chemistry.

Admission requirement

To be admitted students must have declared Pre-Pharmacy as a pre-professional area of interest.

Program requirements (16-18 hours)

BIO 312(3) and 313(2); BMS 307(4); CHM 170(3) and CHM 171(1).

Complete one of the following areas of emphasis:

Biology: BIO 320(4) or BIO 361(4) or BIO 511(4).



Biomedical Science: BMS 308(4) or BMS 321(4) or BMS 442(3).

Chemistry: CHM 342(3) and 345(2).

All candidates must satisfy the General University Certificate Requirements.

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>I</i> S

This certificate is jointly offered by the Department of Chemistry **and Biochemistry**, Department of Biology, and Department of Biomedical Science and provides students with broad exposure to foundational courses in the sciences required for pursuit of a Doctor of Pharmacy or a career in pharmaceutical science.

This certificate is administered by the Department of Chemistry **and Biochemistry**.

Admission requirement

~~To be admitted students must have declared Pre-Pharmacy as a pre-professional area of interest.~~

Program requirements (16-18 hours)

BIO 312(3) and 313(2); BMS 307(4); CHM 170(3) and CHM 171(1).

Complete one of the following areas of emphasis:

Biology: BIO 320(4) or BIO 361(4) or BIO 511(4).

Biomedical Science: BMS 308(4) or BMS 321(4) or BMS 442(3).

Chemistry: CHM 342(3) and 345(2).

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Not Attached

Total Hours: 16-18

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

Reason for Proposed Change:

Based on our previous observations, having a declaration of "Pre-Pharmacy" as the adm requirements for this certificate program is posing an unnecessary hurdle for students w interesting in earning this certificate.

Additionally, we are proposing to update the name of the "Department of Chemistry" to ' Chemistry and Biochemistry" in order to reflect the department name change that happo ago.

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

04/09/2024

Current Status:

College Council Review

Proposal Progress:

04/30/2024 - Submitted by Department Head (Adam Wanekaya)

Review Comments:

04/30/2024 - Department Head Review - Adam Wanekaya - I approve this proposal.

No review notes have been added.

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Change Program Proposal Form

Submitted on 04/05/2024 by Sean Maher (SPMaher@MissouriState.edu).

Department:

Biology

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major Option
 Comprehensive Undergraduate Major Minor
 Graduate Program Certificate

Does this program include any new courses?

- No Yes (A corresponding new course form must be submitted to create each new course.)

Title of Program Affected:

Biology/Wildlife and Fisheries Biology-BS

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

Wildlife and Fisheries Biology option (68-87 hours total for major):
BIO 320(4) or 361(4), 367(3), 368(1).
Two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4).
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).
Five hours in management from: BIO 373(3), 485(1-3), 509(4), 532(3), 533(4), 562(4), 589(3).
Two courses in ecology and evolution from: BIO 436(4), 504(3), 515(3), 539(3), 563(3), 567(4), 578(4), 579(3), 584(3).
One course in human dimensions from: 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).
One course in earth/environmental science from: AGN 215(3), CHM 260(3), GLG 110(4), GRY 112(4), GRY 114(3), GRY 115(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~~

Wildlife and Fisheries Biology option (68-87 hours total for major):
BIO 320(4) or 361(4), 367(3), 368(1).
Two courses in plant biology from: BIO 334(3), 339(2), 530(3), 544(4).
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).
Five hours in management from: BIO 373(3), 485(1-3), 509(4), 532(3), 533(4), 562(4), 589(3).
Two courses in ecology and evolution from: BIO 436(4), 504(3), 515(3), 539(3), 563(3), 567(4), 578(4), 579(3), 584(3).
One course in human dimensions from: 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).
One course in earth/environmental science from: AGN 215(3), CHM 260(3), ~~GLG 110(4)~~, ~~GRY 112(4)~~, ~~GRY 114(3)~~, ~~GRY 115(3)~~.

Not Attached

Total Hours: 68-87

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

Reason for Proposed Change:

SEES has submitted changes for GLG 110 and GRY 142, and we are making changes to reflect forthcoming course numbers.

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

04/05/2024

Current Status:

College Council Review

Proposal Progress:

04/05/2024 - Submitted by Department Head (Kyoungtae Kim)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

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