CNAS College Council October 1, 2024

Committee College of Natural and Applied Sciences College Council

Notes

Approval of minutes from September meeting.

Total Proposals 7

BIO - 210 - Elements of Microbiology

2025-2026 UG Course Delete Form

General Catalog Information

Instructions

Complete Proposal Form

Complete any required fields, marked with an *. Do not edit any existing, pre-populated fields for this delete proposal. Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page,select the UG catalog map, and copy the results into the space provided on the form. **This is required.** Complete the *Acknowledgement* section.

Launch Proposal

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Approve Proposal

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To Review Proposal (After Launch)

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If the deleted course is listed in catalog program information, a corresponding program change must be submitted. Deleted courses are not automatically deleted from programs.

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For information regarding Faculty Senate bylaws, email <u>facultysenate@missouristate.edu</u>.

Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 210
Course Title:*	Elements of Microbiology	
Course Description:*	diseases, immunology, steriliza	iology, particularly causes and control of infectious tion and disinfection, and food and water bacteriology. A I <u>BIO 310</u> receives credit toward graduation only for <u>BIO</u>
Is this course a requirement in any program?*	- 165	
Rationale		
Why is this course being deleted?*		10) with two new courses by splitting the lecture and lab. and BIO213 (lab) in the catalog, and this course (BIO210)
	-	
How was this determination	Routine or annual review/as	ssessment of curriculum
made?*		
	Student Input	
	Accreditation/certification c	
	Review of catalog information	on

Additional Comments: The following two new courses were added a few years ago to the catalog to replace this course:

- BIO 212: Elements of Microbiology
- BIO 213: Elements of Microbiology Laboratory

Acknowledgements and Attachments

What is the date 09/12/2024 that this course change was approved by departmental or program faculty?*

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the **Impact Report** and paste into the space below.

Impact	Report
Re	sults:*

F

Impact Report for BIO 210

Prerequisite:	BIO 508 - Environmental Microbiology
	BIO 511 - Immunology
	BIO 512 - Industrial Microbiology
	BIO 517 - Microbial Physiology and Metabolism
	BIO 520 - Pathogenic Microbiology
	DTN 338 - Food Safety Certification
Description	BIO 210 - Elements of Microbiology
	BIO 310 - Microbiology
Programs	Biology (Comprehensive) (BS)
	Biology (Non-Comprehensive) (BA)
	Biology (Non-Comprehensive) (BS)
	Biomedical Physics Certificate
	Chemistry (Comprehensive) (BS)
	Clinical Laboratory Sciences-Medical Technology (Comprehensive) (B
	Environmental Plant Science (Comprehensive) (BS)
	Foundations of Pharmaceutical Science Certificate

-1

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only



	 Spring Summer
Implementation Notes	
Degree Audit Notes	
Credit Hours:	3
Course Type	Biology
Typically Offered:	 Fall Fall Even Fall Odd Spring Spring Even Spring Odd Summer Demand

BIO - 235 - Genetics

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.** Complete the *Acknowledgement* section.

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View uploaded files associated with the proposal by clicking the paperclip icon in the right-side

The information imported for the course change is from the most recent catalog.

If changing the course number, originators must check course number availability prior to submission using this resource: <u>Course Number Availability</u>.

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.

If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx""* must be added to the course description. *Example: LAW 335 and 532.*

Courses listed in prerequisites, corequisites, recommended prerequisites, and descriptions may be catalog links shown in green. Catalog links will be updated by the OOR during implementation.

Course changes that affect program information in the catalog will not be implemented without a corresponding program change form.

For system support, email <u>curriculum@missouristate.edu</u>.

For information regarding Faculty Senate bylaws, email <u>facultysenate@missouristate.edu</u>.

Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 235
Course Title:*	Genetics	
Prerequisite:	<u>BIO 121</u> or <u>BMS 110</u> and <u>BMS 1</u> <u>161</u> (recommended) or higher, an	<u>11;</u> and <u>CHM 116</u> and <u>CHM 117</u> or <u>CHM 160</u> and <u>CHM</u> nd <u>MTH 136</u> or higher.
Corequisite:		
Recommended Prerequisite:		
Credit Hours:*	3	
Lecture Contact Hours:	3	Lab Contact Hours:
If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.		

Type (Lecture/Lab/Other) [;]	 Lecture Lab Both
	Other
Grade Mode*	Letter Grades (Standard)
	Pass Not Pass ONLY
	CANNOT Pass Not Pass
Check all periodicity	<u>d</u>
Check all periodicity that applies.*	
	Fall Even
	Fall Odd
	Spring
	Spring Even
	Spring Odd
	Summer
	Demand
Course Description:*	
course Description.*	Current course description in UG catalog to be replaced:
	Principles of classical and molecular genetics, epigenetics and biotechnology. Course
	content is foundational to concepts of modern biology, recommended for all majors in life
	science-related fields.
	Proposed new description in UG catalog:
	Genetics is a unifying theme for all life sciences. This course provides an essential foundation for students proceeding to more advanced coursework in cell biology, microbiology, ecology and evolution. The course examines the genetic systems of eukaryotes, prokaryotes and viruses, and covers classical inheritance, genomics, chromosome functions and abnormalities, gene editing, and the molecular basis of cancer. The course also provides examples of applications to medicine, plant and animal breeding, biotechnology, and wildlife.
· · · · · · · · · · · · · · · · · · ·	
Is there a graduate parallel course to this one?	No

Rationale

Why is this course changing?*	The catalog description of this course needs to be replaced with a narrative that more precisely describes the content and scope of the course. The need to make this change was determined by the BMS-Biology Working Group on Genetics. The new catalog description will help students better differentiate the courses Human Genetics offered by BMS and genetics offered by the Biology Depratment.
Does this change affect course assessment (e.g. student learning evidence / outcomes)?*	
If yes, explain:	
How was the change for this course determined?*	 Routine or annual review/assessment of curriculum Faculty Input Student Input Accreditation/certification compliance Review of catalog information Other
Other comments:	
What is the date that this course change was approved by departmental or	09/06/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

program faculty?*

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report for BIO 235

Source: 2025	5-2026 Undergraduate Catalog
Prerequisite:	BIO 236 - Genetics Laboratory
	BIO 310 - Microbiology
	BIO 312 - Microbiology
	BIO 320 - Cellular and Molecular Biology
	BIO 355 - Developmental Biology
	BIO 361 - General Physiology
	BIO 505 - Human Nature
	BIO 515 - Evolution
	BIO 540 - Applications of Molecular Markers
	BIO 550 - Statistical Methods for Biologists
	BIO 555 - Marine Ichthyology
	BIO 560 - Population Genetics and Evolutionary Mechanisms
	BMS 317 - Medical Microbiology
	CSC 587 - Computing for Bioinformatics
Description	BIO 236 - Genetics Laboratory
Programs	Animal Science (Comprehensive) (BS)
	Biology (Comprehensive) (BS)
	Biology (Non-Comprehensive) (BA)
	Biology (Non-Comprehensive) (BS)
	Biology Minor
	Biomedical Sciences (Comprehensive) (BS)
	Chemistry (Comprehensive) (BS)
	Clinical Laboratory Sciences-Medical Technology (Comprehensive) (BS
	Data Science (Non-Comprehensive) (BS)
	Environmental Plant Science (Comprehensive) (BS)
	Exercise Science (Comprehensive) (BS)
	Foundations of Pharmaceutical Science Certificate
	Informatics Minor
	Molecular Biology Minor
	Paleontology Certificate
	Radiography (Comprehensive) (BS)

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only		
Catalog OID (Item ID)	47848	
Catalog Status	Active-Visible	
	Inactive-Hidden	
Disposition Information		
Effective Term	G Fall	
	Spring	
	Summer	
Implementation Notes		
Degree Audit Notes		
Grade Mode for		
Grade Mode for Catalog		
	Pass/Not Pass	
Cabadala Tana ƙar		
Schedule Type for Catalog	Lecture	
Course Type	Biology	

BIO - 310 - Microbiology

2025-2026 UG Course Delete Form

General Catalog Information

Instructions

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View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

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Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 310
Course Title:*	Microbiology	
Course Description:*		biology; development of sound laboratory skills. A student receives credit toward graduation only for BIO 310.
Is this course a requirement in any program?*		
Rationale		
Why is this course being deleted?*		0) with two new courses by splitting the lecture and lab. and BIO313 (lab) in the catalog, and this course (BIO310)
How was this determination made?*	 Routine or annual review/ass Faculty Input Student Input Accreditation/certification condition Review of catalog information 	mpliance

Additional Comments: The following two courses were added to the catalog a few years ago to replace this course.

- BIO 312 Microbiology
- BIO 313 Microbiology Laboratory

Acknowledgements and Attachments

What is the date 09/08/2024 that this course change was approved by departmental or program faculty?*

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the **Impact Report** and paste into the space below.

Results:* Prerequis	ite: BIO 398 - Laboratory Internship in Biology
	BIO 508 - Environmental Microbiology
	BIO 511 - Immunology
	BIO 512 - Industrial Microbiology
	BIO 517 - Microbial Physiology and Metabolism
	BIO 518 - Regulatory Mechanisms
	BIO 520 - Pathogenic Microbiology
	BMS 524 - Virology
	BMS 530 - Cell Biology of Cancer
	BMS 540 - Biotechnology
Descriptio	on BIO 210 - Elements of Microbiology
	BIO 310 - Microbiology
Programs	Biology (Comprehensive) (BS)
	Biology (Non-Comprehensive) (BA)
	Biology (Non-Comprehensive) (BS)
	Biomedical Physics Certificate
	Biomedical Sciences (Comprehensive) (BS)
	Chemistry (Comprehensive) (BS)
	Clinical Laboratory Sciences-Medical Technology (Comprehensive) (BS
	Environmental Plant Science (Comprehensive) (BS)
	Foundations of Pharmaceutical Science Certificate
	Human Genetics and Genomics Certificate
	Molecular Biology Minor
	Molecular Physiology Certificate

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item 47852 ID)

Catalog Status

Active-Visible

Inactive-Hidden

Disposition Information

Effective Term	G Fall
	Spring
	Summer
	o Summer
Implementation	
Notes	
Degree Audit Notes	
Credit Hours:	5
Course Type	Biology
Turnian Ulu Offered	
Typically Offered:	
	Fall Even
	Fall Odd
	Spring
	Spring Even
	Spring Odd
	Summer
	Demand

BIO - 543 - Diabetes Pathology and Treatment

2025-2026 UG Course New Form

General Catalog Information

Instructions

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Originators must check course number availability prior to submission using this resource: <u>Course Number Availability</u>.

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.

If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx""* must be added to the course description. *Example: LAW 335 and 532.*

If a new course should be added to a program in the catalog (as a requirement or an elective, etc.), a program proposal must also be submitted.

For system support, email <u>curriculum@missouristate.edu</u>.

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Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 543
Course Title:*	Diabetes Pathology and Treatment	
Prerequisite:	BIO121 or BMS110 and BMS 1	I1, and BIO235 (genetics) or BMS 230 (Human genetics)
Corequisite:		
Recommended Prerequisite:	BIO 320 (Cellular and Molecular Biology) or BMS 521 (Molecular Cell Biology) or equivalent	
Credit Hours:*	3	
Type (Lecture/Lab/Other):	 Lecture Lab Both Other 	
Lecture Contact Hours:	3	Lab Contact Hours:
If this course may be repeated for additional credit, enter the repeatable		

шт.	
This course CANNOT be graded as Pass/Not Pass. *	
Is this course graded Pass/Not Pass ONLY?*	 Yes Not Applicable
Is there a graduate parallel course to this one?	BIO 643
Is this course identical to another undergraduate course?	No
Check all periodicity that applies.*	 Fall Fall Even Fall Odd Spring Spring Even Spring Odd Summer Demand
Course Description:*	To provide a better understanding of the underlying physiological and cellular mechanisms associated with Type I and Type II Diabetes. This course will consist of several introductory lectures covering the history and social content of diabetes, normal physiology of insulin, pathogenesis and treatment, and other health complications associated with diabetes followed by student presentations and discussion of recent primary research articles related to diabetes. The goal of this course is to provide a comprehensive and current perspective on this global pandemic. <i>Students cannot receive credit for both BIO 543 and BIO 643.</i>

Rationale

Purpose of Course:*

This course will provide an additional undergraduate level course for students interested in a biomedical career including physicians, scientists, dentists, and other healthcare workers. In particular, this course will be included in the list of approved courses for biology majors seeking an emphasis in micobiology and biotechnology. Diabetes is a global pandemic and this course will provide a historical context as well as current research pertaining to the pathology and treatment of all forms of diabetes.

Enrollment Expectations

What is the Biology, BMS, chemistry and likely health-related majors may be interested in taking this anticipated source of students for this course. course?* Anticipated Average 20 Maximum 30 Enrollment per **Enrollment Limit** class section:* per class section:* Anticipated Average 20 Maximum 30 **Enrollment Limit Enrollment per** semester: * per semester:* Anticipated Average 20 Maximum 30 **Enrollment Limit Enrollment per** year:* per year:* **Resource Needs** Will this new course O Yes Will this new course O Yes require additional require additional library holdings?*
No computer 💿 No resources?* Will this new course O Yes Will this new course O Yes require additional require additional or remodeled 💿 No equipment or 💿 No facilities?* supplies?* Will this new course O Yes require, additional travel funds?* 💿 No Will there be any O Yes additional costs associate with this \odot No course?* If yes, to any of the above, detail specific resource needs:

Faculty Impact

Faculty Load 3 Assignment (equated hours):*

Additional faculty

needed; general vs. specialized*	 res needed; regular vs. res per-course* No 	
If additional faculty are not required, how will faculty be made available to teach this course?	I have been teaching this course as a BIO 597 special topics course.	
List names of current faculty qualified and available to teach this course:*	Paul Durham	
If from within the department, will students be taking this course in addition to or in place of other courses?*		
If from outside the department, which courses in other departments would most likely be affected?*	This course is not currently being taught in another department that I am aware of.	
Other comments:	Inclusion of this course as a class offereing for biology, biomedical, and healthcare students will be beneficial for their preparation for advanced degree programs. In Biology, it will provide another course for the general biology degree and microbiology and biotechnology degree programs. Students cannot receive credit for both BIO 543 and BIO 643.	

Acknowledgements and Attachments

What is the date 09/06/2024 that this new course was approved by departmental faculty?*

ATTACHMENT INSTRUCTION

No attachments are required but may be uploaded if desired by navigating to the right side menu and clicking "*Files*".

Note: A syllabus is not required.

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Admin	istrator Only
Disposition Information	
	 Fall Spring Summer
Implementation Notes	
Degree Audit Notes	
Grade Mode for Catalog	 Standard Pass/Not Pass
Schedule Type for Catalog	
Course Type:	

BIO - 545 - Comparative Endocrinology

2025-2026 UG Course New Form

General Catalog Information

Instructions

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Complete all required fields, marked with an *. Only one academic unit may be selected. Complete the *Acknowledgement* section.

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Originators must check course number availability prior to submission using this resource: <u>Course Number Availability</u>.

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.

If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx""* must be added to the course description. *Example: LAW 335 and 532.*

If a new course should be added to a program in the catalog (as a requirement or an elective, etc.), a program proposal must also be submitted.

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Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 545
Course Title:*	Comparative Endocrinology	
Prerequisite:	BIO 320 or BIO 361 or BMS 308	
Corequisite:		
Recommended Prerequisite:		
Credit Hours:*	3	
Type (Lecture/Lab/Other):	Lecture Lab Both Other	
Lecture Contact Hours:	3	Lab Contact Hours: 0
If this course may be repeated for additional credit, enter the repeatable limit.		

This course CANNOT be graded as Pass/Not Pass. *	
Is this course graded Pass/Not Pass ONLY?*	 Yes Not Applicable
Is there a graduate parallel course to this one?	BIO 645
Is this course identical to another undergraduate course?	
Check all periodicity that applies.*	 Fall Fall Even Fall Odd Spring Spring Even Spring Odd Summer Demand
Course Description:*	Explores the fundamental principles of vertebrate endocrinology while providing a comparative context across animal species. Emphasizes understanding hormonal regulation of physiological processes with an integrative approach that explores

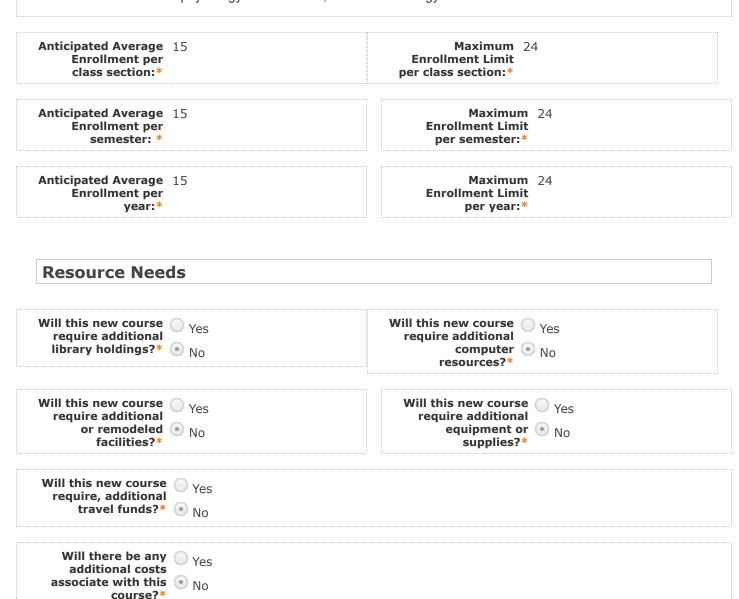
Rationale

Purpose of Course:*	The purpose of this course is to provide students with an understanding of vertebrate endocrinology through a comparative approach. By examining the hormonal regulation of physiological processes across diverse animal species, students will gain insight into the evolutionary adaptations and conserved mechanisms of endocrine function. The course will integrate molecular, cellular, and whole-animal perspectives, offering students a deeper appreciation of how endocrine systems influence metabolism, reproduction, growth, and behavior. This course is designed to foster critical thinking and scientific inquiry, equipping students with the skills necessary to analyze and interpret endocrine- related phenomena in a broad biological context.

mechanisms from molecules to whole-animal endocrine regulation.

What is the anticipated source of students for this course?*

I anticipate attracting students from the Department of Biology, College and Agriculture, and Department of Biomedical Sciences. Due to its integrative nature, it is suitable for students with diverse interests in biology, including cellular biology, human and non-human physiology and medicine, and wildlife biology.



If yes, to any of the above, detail specific resource needs:

Faculty Impact

Faculty Load 3 Assignment (equated hours):*

specialized*	No No No No
If additional faculty are not required, how will faculty be made available to teach this course?	I have previously taught this class as a variable topics course. In years past I taught another course in odd fall semesters called Comparative Animal Physiology. Due to lower enrollment potential for that class, I intend to replace it in my teaching schedule with Comparative Endocrinology, which has broader appeal across multiple disciplines.
List names of current faculty qualified and available to teach this course:*	Day Ligon
If from within the department, will students be taking this course in addition to or in place of other courses?*	
If from outside the department, which courses in other departments would most likely be affected?*	The course that I've proposed likely most closely aligns with BMS 573, titled Endocrine Physiology. However, I have found no evidence that this course has been offered since it was added to the course catalog in 2018, so a direct comparison isn't feasible. The proposed course may also have limited overlap with courses in Animal Science, such as AGS 302 (Reproductive Physiology) but is designed to be broader in scope and to focus specifically on endocrine signaling.
Other comments:	Although not required, I have included a syllabus from a recent semester when this course was offered as a Variable Topics (BIO 597) class.

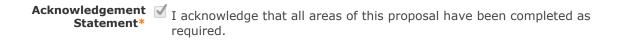
Acknowledgements and Attachments

What is the date 09/06/2024 that this new course was approved by departmental faculty?*

ATTACHMENT INSTRUCTION

No attachments are required but may be uploaded if desired by navigating to the right side menu and clicking "*Files*".

Note: A syllabus is not required.



System Administrator Only

Disposition Information	
Effective Term	 Fall Spring Summer
Implementation Notes	
Degree Audit Notes	
Grade Mode for Catalog	 Standard Pass/Not Pass
Schedule Type for Catalog	
Course Type:	

BIO - 571 - Comparative Animal Physiology

2025-2026 UG Course Delete Form

General Catalog Information

Instructions

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Approve Proposal

Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the rightside menu. **The proposal is NOT submitted until the originator approves the proposal first.**

If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the + *Add Comment* button. Comments can be added to the proposal at any time.

<u>To Review Proposal (After Launch)</u>

View changes to the proposal by clicking the *Discussion* tab using the chat icon in the rightside menu and selecting "Show current with markup" on the User Tracking dropdown. View current comments concerning this proposal by clicking the *Discussion* tab using the chat icon in the right-side menu.

View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.

View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

The information imported for this course deletion is from the most recent catalog. If deleting an identical or parallel course, be sure to submit a corresponding delete or change course form to update the identical/parallel relationship with the other course(s).

If the deleted course is listed in catalog program information, a corresponding program change must be submitted. Deleted courses are not automatically deleted from programs.

For additional system support, email <u>curriculum@missouristate.edu</u>.

For information regarding Faculty Senate bylaws, email <u>facultysenate@missouristate.edu</u>.

Academic Unit:*	Department of Biology	
Course Code:*	BIO	Course Number:* 571
Course Title:*	Comparative Animal Physiolog	ly
Course Description:*	• •	le range of invertebrate and vertebrate animals. May be 71. Cannot receive credit for both BIO 571 and BIO 671.
Is this course a requirement in any program?*	0 163	
Rationale		
Why is this course being deleted?*	BIO 571, which historically was several cycles due to low enro	s taught in alternate springs, has not been offered for llment potential.
How was this determination made?*	 Routine or annual review/a Faculty Input Student Input Accreditation/certification of Review of catalog information 	ompliance
Additional Comments:		

Acknowledgements and Attachments

What is the date 09/06/2024 that this course change was approved by departmental or program faculty?*

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the **Impact Report** and paste into the space below.

Impact Report Results:*	Impact Report for BIO 571
	There are no results for this report.
Acknowledgement Statement*	I acknowledge that all areas of this proposal have been completed as required.
System Admin	istrator Only
Catalog OID (Item ID)	47899
Catalog Status	 Active-Visible Inactive-Hidden
Disposition Information	
Effective Term	 Fall Spring Summer
Implementation Notes	
Degree Audit Notes	
Credit Hours:	4
Course Type	Biology

Typically Offered:	Fall
	Fall Even
	Fall Odd
	Spring
	Spring Even
	Spring Odd
	Summer
	Demand

Biology (Comprehensive) (BS)

2025-2026 UG Program Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *. Do not change the academic unit field. Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update. Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.

Once the proposal has been launched, originators must follow the steps below to "approve" the proposal.

Approve Proposal

Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the rightside menu. **The proposal is NOT submitted until the originator approves the proposal first.**

If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the + *Add Comment* button. Comments can be added to the proposal at any time.

To Review Proposal (After Launch)

View changes to the proposal by clicking the *Discussion* tab using the chat icon in the rightside menu and selecting *"Show current with markup"* on the *User Tracking* dropdown. View current comments concerning this proposal by clicking the *Discussion* tab using the chat icon in the right-side menu.

View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.

View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

New courses (currently not in the catalog) must be submitted in Curriculog *before* completing this change program process, if the new courses are to be included in this change program proposal.

Select *Program* below as the *Type of Program* before importing curriculum data. DO NOT select Shared Core.

Type of Program*	Program
	Shared Core
Academic Unit*	
Academic ont	Department of Biology
Choose One:*	Comprehensive Undergraduate Major
	Non-Comprehensive Undergraduate Major
	Undergraduate Major (not a BS or BA degree)
	Minor
	Certificate
Does this program have options?*	Vac
have options?*	 No
Program Title*	Biology (Comprehensive) (BS)
Degree Type*	
5 7	Bachelor of Science
Additional Catalog	
Information*	none
Rationale	
What is the date that this program	04/05/2024
change was	

approved by department or

program faculty?*

Why is this program changing?* This change is to the Wildlife and Fisheries option. SEES has submitted changes for GLG 110 (to GLG 113 and GLG 116), GLG 171 (to GLG 114), and GRY 142 (to GRY 145), and we are making changes to reflect forthcoming course numbers. At the recommendation of Toby Dogwiler, we are making a change to GLG 114, as this course will be more relevant to our students, but we are not including the lab as this is not consistent with the other requirements.

Follow these steps to update curriculum:

Step 1-Preview Curriculum or View Curriculum Schema

These views will show the current curriculum structure and courses.

Step 2-Remove courses or cores (sections), if needed

A *core* in Curriculog is defined as a section of the program in the catalog. Use the *"trashcan icons"* to delete an entire core/section or to delete existing courses.

Step 3-Change cores (sections), if needed

Expand a core/section to update the title, description, or custom text. Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 4-Adding Courses

The first step is to bring courses into the proposal to use when building out the desired program requirements and sections.

On the "View Curriculum Courses" tab, there are two options for adding courses: "Add Course" and "Import Course."

For courses already in the catalog, click on *"Import Course"* and find the courses needed. For new courses currently going through a Curriculog Approval Process click on *"Add Course"*. A box will open asking you for the Prefix, Course Number and Course Title. Be sure this information matches the new course prefix/number/title exactly.

To remove a course that was added into the proposal but no longer needed, click on the *"trashcan icon"* to delete.

Step 5-Adding Sections

Click on "View Curriculum Schema" then select "Add Core". When the new core (section) appears, expand and enter a title. Title examples: "Specific General Education Requirements" or "Required Courses", or "Capstone Experience".

Enter a description, if applicable.

Add courses (from the steps above) to the section(s), as needed.

Add custom text, if applicable. Custom text examples: "3 hours from", or "any additional course numbered 300 or above", or adding "or" between a choice of courses.

Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 6-Preview Curriculum

This preview will show the structure of the sections and courses added to this proposal. This is available at any point during the building of this proposal.

Curriculum*

Major Requirements

Major Core:

4

4

3

1

1

0

3

4

5

4

5

3

5

Consult options below before selecting courses. **BIO 121 General Biology I BIO 122 General Biology II BIO 235 Genetics BIO 236 Genetics Laboratory BIO 302 Biology Seminar BIO 492 Biology Program Assessment BIO 550 Statistical Methods for Biologists** [After] **PHY 123 Introduction to Physics I** [After] OR **PHY 203 Foundations of Physics I** [After] **PHY 124 Introduction to Physics II** [After] OR **PHY 204 Foundations of Physics II** [After] MTH 137 Precalculus 2 [After] OR MTH 138 Pre-Calculus Mathematics [After] OR [After] eligibility for MTH 261 on mathematics placement test.

[After] 3 **BIO 312 Microbiology** [Right] AND **BIO 313 Microbiology Laboratory** 2 [After] OR **BIO 320 Cellular and Molecular Biology** 4 [After] OR **BIO 361 General Physiology** 4 [After] OR **BIO 544 Plant Physiology** 4 [After] **CHM 116 Fundamentals of Chemistry** 4 [Right] AND **CHM 117 Fundamentals of Chemistry** 1 Laboratory [After] OR

CHM 160 General Chemistry I [Right] AND	4
CHM 161 General Chemistry I Laboratory	1
[After]	
CHM 201 Essentials of Organic Chemistry	3
[Right] AND	
CHM 202 Essentials of Organic Chemistry	2
Laboratory	
[After] OR	
CHM 302 Introduction to Analytical	5
Chemistry	
[After] OR	
CHM 342 Organic Chemistry I	3
[After] OR	
CHM 343 Organic Chemistry II	3

Public Affairs Capstone Experience will be fulfilled by completion of:

BIO 302 Biology Seminar	1
BIO 492 Biology Program Assessment	0

Two Additional Courses From the Following:

Courses may also be used to satisfy option requirements.

BIO 300 Service-Learning in Biology	1
BIO 355 Developmental Biology	4
BIO 367 General Ecology	3
BIO 370 Invertebrate Zoology	4
BIO 373 Principles of Wildlife Management	3
BIO 398 Laboratory Internship in Biology	1
BIO 399 Cooperative Education in Biology	1-3
BIO 485 Marine Conservation	3
BIO 498 Honors Senior Project	3
BIO 499 Undergraduate Research	1-3
BIO 501 Natural History Museum	2
Techniques	
BIO 505 Human Nature	3
BIO 508 Environmental Microbiology	3
BIO 509 Stream Ecology	4
BIO 511 Immunology	4
BIO 512 Industrial Microbiology	3
BIO 520 Pathogenic Microbiology	3
BIO 527 Field Biology	1-4
BIO 539 Biogeography	3
BIO 547 Water Resources	3
BIO 561 Environmental Issues Education	2
and Interpretation	

BIO 573 Ornithology	3
BIO 574 Aquatic Entomology	2
BIO 575 Ichthyology	3
BIO 576 Herpetology	3
BIO 577 Mammalogy	3
BIO 578 Behavioral Ecology	4
BIO 579 Conservation Biology	3
BIO 584 Fish Ecology	3
BIO 589 Game Management	3

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: <u>BIO 300</u>, <u>BIO 399</u>, <u>BIO 499</u>, or <u>BIO 597</u>.

Pre-Teacher Education Option

This option is designed for students preparing to enter post-graduate studies to become a high school science teacher. 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 Microbiology	3
BIO 313 Microbiology Laboratory	2
BIO 361 General Physiology	4
BIO 367 General Ecology	3
BIO 368 General Ecology Lab	1
BIO 515 Evolution	3

Nine Additional Hours of Upper Division Biology Courses.

Related Chemistry Courses:

CHM 160 General Chemistry I	4
CHM 161 General Chemistry I Laboratory	1
CHM 170 General Chemistry II	3
CHM 171 General Chemistry II Laboratory	1
[After]	
CHM 201 Essentials of Organic Chemistry	3
[Right] AND	
CHM 202 Essentials of Organic Chemistry	2
Laboratory	
[After] OR	
CHM 302 Introduction to Analytical	5
Chemistry	

Related Science Courses:

GLG 110 Principles of Geology	4
GRY 135 Principles of Weather and Climate	4
SCI 505 Intellectual Foundations of Science and Technology	3

Related Mathematics Requirement: One course from:

3

MTH 137 Precalculus 2 [After] OR [After] eligibility for MTH 261 on Mathematics Placement test.

Total Credit Hours: 72-74

Environmental Biology and Evolution Option

BIO 367 General Ecology

BIO 368 General Ecology Lab BIO 515 Evolution

One Course in Biodiversity and Evolution:

BIO 334 Plant Taxonomy	3
BIO 339 Identification of Woody Plants	2
BIO 370 Invertebrate Zoology	4
BIO 371 Introduction to Entomology	3
BIO 380 Comparative Vertebrate Anatomy	5
BIO 530 Aquatic Botany	3
BIO 571 Comparative Animal Physiology	4
BIO 573 Ornithology	3
BIO 574 Aquatic Entomology	2
BIO 575 Ichthyology	3
BIO 576 Herpetology	3
BIO 577 Mammalogy	3

The Following Courses Taught During the Summer

at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi:

BIO 534 Coastal Vegetation	2
BIO 535 Coastal Vegetation Lab	1
BIO 555 Marine Ichthyology	3
BIO 556 Marine Ichthyology Lab	3
BIO 587 Marine Invertebrate Zoology	3
BIO 588 Marine Invertebrate Zoology Lab	3

One course in Population Biology:

BIO 436 Plant Ecology	4
BIO 505 Human Nature	3
BIO 532 Principles of Fisheries Management	3
BIO 540 Applications of Molecular Markers	4
BIO 560 Population Genetics and Evolutionary Mechanisms	3
BIO 563 Population Ecology	3
BIO 567 Physiological Ecology	4
BIO 578 Behavioral Ecology	4
BIO 584 Fish Ecology	3
BIO 589 Game Management	3

3 1

3

The following courses taught during the summer

at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi:

BIO 557 Marine Fisheries Management	2
BIO 558 Marine Fisheries Management Lab	2

Three Hours in Community/Ecosystem Biology:

BIO 373 Principles of Wildlife Management	3
BIO 485 Marine Conservation	3
BIO 504 Plant-Animal Interactions	3
BIO 508 Environmental Microbiology	3
BIO 509 Stream Ecology	4
BIO 533 Wetland Ecology	4
BIO 539 Biogeography	3
BIO 547 Water Resources	3
BIO 562 Limnology	4
BIO 564 Ozarks Natural Communities	2
BIO 579 Conservation Biology	3

The Following Courses Taught During the Summer

at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi:

BIO 537 Salt Marsh Plant Ecology	2
BIO 538 Salt Marsh Plant Ecology Lab	2
BIO 565 Marine Ecology	3
BIO 566 Marine Ecology Lab	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 Plant Taxonomy	3
BIO 339 Identification of Woody Plants	2
BIO 370 Invertebrate Zoology	4
BIO 436 Plant Ecology	4
BIO 509 Stream Ecology	4
BIO 527 Field Biology	1-4
BIO 562 Limnology	4

BIO 564 Ozarks Natural Communities	2
BIO 574 Aquatic Entomology	2
BIO 575 Ichthyology	3
BIO 576 Herpetology	3
BIO 577 Mammalogy	3
[After] any biology course taught at the Gulf Coast Research Laboratory	
[After] any biology course taught at the Bull Shoals Field station or another field station (with the approval of 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:

5
3
4
3
3
2
3

Related Requirements in Chemistry:

CHM 160 General Chemistry I	4
CHM 161 General Chemistry I Laboratory	1
CHM 170 General Chemistry II	3
CHM 171 General Chemistry II Laboratory	1

One of the Following Related Science Courses:

AGN 215 Soils	3
ANT 305 Introduction to Archaeology	3
ANT 375 Human Evolution	3

[After]

CHM 260 Principles of Environmental Chemistry	3
[After] OR	
CHM 460 Environmental Chemistry: Water and Land	3
[After]	
GLG 114 Earth: The Survival Guide	3
GRY 351 Sustainable Management of Natural Resources	3

One of the Following Related Fields of Study Courses:

BIO 561 Environmental Issues Education and Interpretation	2
ECO 540 Environmental, Resource, and Energy Economics	3
GEO 363 Introduction to Geographic Information Science	4
LAW 537 Environmental Regulation	3
PHI 302 Environmental Ethics	3
PLS 555 Public Policy for a Global Environment	3
PSY 379 Environmental Psychology	3

Total Credit Hours: 72-85

Microbiology and Biotechnology Option

BIO 312 Microbiology	3
BIO 313 Microbiology Laboratory	2
BIO 320 Cellular and Molecular Biology	4

21 additional hours in BIO courses

with a minimum of 18 hours from the following. BMS 524(3) may be substituted for one of these courses. CHM 302(5); or CHM 502(3) and 503(2); or CHM 504(3) and 505(1) may be substituted for one of these courses.

BIO 355 Developmental Biology	4
BIO 508 Environmental Microbiology	3
BIO 511 Immunology	4
BIO 512 Industrial Microbiology	3

	-
[After]	
BIO 505 Human Nature	3
[After] OR	
BIO 515 Evolution	3
[After]	
BIO 517 Microbial Physiology and	4
Metabolism	
BIO 518 Regulatory Mechanisms	2
BIO 520 Pathogenic Microbiology	3
BIO 530 Aquatic Botany	3
BIO 540 Applications of Molecular Markers	4

Related Requirements in Chemistry:

CHM 160 General Chemistry I	4
CHM 161 General Chemistry I Laboratory	1
CHM 170 General Chemistry II	3
CHM 171 General Chemistry II Laboratory	1
[After]	
CHM 201 Essentials of Organic Chemistry	3
[Right] AND	
CHM 202 Essentials of Organic Chemistry Laboratory	2
[After] OR	
CHM 342 Organic Chemistry I	3
[Right] AND	
CHM 345 Microscale Organic Chemistry Laboratory	2
[Right] AND	
CHM 343 Organic Chemistry II	3
[After] OR	
[After] CHM 342 - Organic Chemistry I AND	
[After] CHM 345 - Microscale Organic Chemistry Laboratory	
[After]	
CHM 352 Introduction to Biochemistry	3
[After] OR	
CHM 554 Biochemistry I	3
[After] AND	
CHM 556 Biochemistry II	3

Total Credit Hours: 71-87

Wildlife and Fisheries Biology Option

BIO 320 Cellular and Molecular Biology	4
[After] OR BIO 361 General Physiology	4
[After]	-
BIO 367 General Ecology	3
BIO 368 General Ecology Lab	1

Two Courses in Plant Biology From:

BIO 334 Plant Taxonomy	3
BIO 339 Identification of Woody Plants	2
BIO 530 Aquatic Botany	3
BIO 544 Plant Physiology	4

Three Courses in Animal Biology From:

BIO 370 Invertebrate Zoology	4
BIO 371 Introduction to Entomology	3
BIO 380 Comparative Vertebrate Anatomy	5
BIO 571 Comparative Animal Physiology	4
BIO 573 Ornithology	3
BIO 574 Aquatic Entomology	2
BIO 575 Ichthyology	3
BIO 576 Herpetology	3
BIO 577 Mammalogy	3

Five Hours in Management From:

BIO 373 Principles of Wildlife Management	3
BIO 485 Marine Conservation	3
BIO 509 Stream Ecology	4
BIO 532 Principles of Fisheries Management	3
BIO 533 Wetland Ecology	4
BIO 562 Limnology	4
BIO 589 Game Management	3

Two Courses in Ecology and Evolution From:

BIO 504 Plant-Animal Interactions	3
BIO 515 Evolution	3
BIO 539 Biogeography	3
BIO 563 Population Ecology	3
BIO 567 Physiological Ecology	4
BIO 578 Behavioral Ecology	4
BIO 579 Conservation Biology	3
BIO 584 Fish Ecology	3

One Course in Human Dimensions From:

AGN 335 Soil Conservation and Water	3
Management	
BIO 547 Water Resources	3
BIO 561 Environmental Issues Education and Interpretation	2
CRM 210 Introduction to the American Criminal Justice System	3
ECO 540 Environmental, Resource, and Energy Economics	3
GRY 108 Principles of Sustainability	3
GRY 351 Sustainable Management of Natural Resources	3
PHI 302 Environmental Ethics	3
PLS 555 Public Policy for a Global Environment	3
LAW 537 Environmental Regulation	3

One Course in Earth/Environmental Science From:

AGN 215 Soils CHM 260 Principles of Environmental Chemistry	3 3
GLG 114 Earth: The Survival Guide	3
GRY 145 Earth's Natural Environment	3

Total Credit Hours: 68-87

System Admin	istrator Only
Catalog OID (Item ID)	4632
	 Active-Visible Active-Hidden Inactive-Hidden
Program Type	Majors
Disposition Information	
	 Fall Spring Summer
Implementation Notes	
Degree Audit Notes	