

Date Submitted: 02/03/25 1:10 pm

Viewing: **BIOLBA : Biology, Bachelor of Arts**

Last approved: 10/03/24 1:56 pm

Last edit: 02/03/25 1:10 pm

Changes proposed by: nrgreen

Catalog Pages

Using this Program

[Biology B.A.](#)

[Biological Sciences \(BISC\)](#)

Submitter:

User ID: [nrgreen](#) gdaughter

Phone:

[3429](#) 5454

Program Status

Active

Academic Level

Undergraduate

Type of proposal

Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Certificate, Degree or Program (including 15 or fewer hours, admission/graduation requirements, Focused Studies or Tracks)

Are you adding a concentration?

No

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog

Fall 2025

Year

College/School

Code

Fulbright College of Arts and Sciences (ARSC)

In Workflow

1. ARSC Dean Initial
2. Director of Curriculum Review and Program Assessment
3. Registrar Initial
4. Institutional Research
5. BISC Chair
6. ARSC Curriculum Committee
7. ARSC Dean
8. Global Campus
9. Provost Review
10. Undergraduate Council
11. Faculty Senate
12. Provost Final
13. Registrar Final
14. Catalog Editor Final

Approval Path

1. 02/07/25 2:28 pm
Christopher Schulte (cschulte):
Approved for ARSC Dean Initial
2. 02/08/25 9:58 am
Lisa Kulczak (lkulcza):
Approved for Director of Curriculum

Department Code

Department of Biological Sciences (BISC)

Program Code

BIOLBA

Degree

Bachelor of Arts

CIP Code

Review and

Program

Assessment

3. 02/10/25 1:27 pm

Gina Daugherty

(gdaugher):

Approved for

Registrar Initial

4. 02/10/25 1:28 pm

Doug Miles

(dmiles):

Approved for

Institutional

Research

5. 02/10/25 2:10 pm

Michelle Evans

White

(mevanswh):

Approved for

BISC Chair

6. 02/10/25 3:15 pm

Nik Rowan

(nrgreen):

Approved for

ARSC Curriculum

Committee

7. 02/10/25 4:29 pm

Christopher

Schulte (cschulte):

Approved for

ARSC Dean

8. 02/10/25 4:45 pm

Suzanne Kenner

(skenner):

Approved for

Global Campus

9. 02/11/25 8:05 am

Jim Gigantino

(jgiganti):

Approved for

Provost Review

History

1. Aug 15, 2014 by
Leepfrog
Administrator
(clhelp)
2. Jan 23, 2015 by
Donna Draper
(ddraper)
3. Mar 25, 2015 by
Charlie Alison
(calison)
4. Apr 27, 2016 by
Donna Draper
(ddraper)
5. May 28, 2020 by
Charlie Alison
(calison)
6. Jun 1, 2020 by
Lisa Kulczak
(lkulcza)
7. Mar 8, 2021 by
Karen Turner
(kjvestal)
8. Jun 4, 2021 by
Charlie Alison
(calison)
9. Jan 16, 2024 by
Gina Daugherty
(gdaugher)
10. May 8, 2024 by
Gina Daugherty
(gdaugher)
11. May 28, 2024 by
Charlie Alison
(calison)
12. Oct 3, 2024 by
Jean Mitchell
(jem03)

26.0101 - Biology/Biological Sciences, General.

Program Title

Biology, Bachelor of Arts

Program Delivery

Method

On Campus

Is this program interdisciplinary between two or more colleges or schools?

No

Do the proposed changes impact any specific course(s) from another college or school?

No

What are the total 120
hours needed to
complete the
program?

Program Requirements and Description

Requirements

~~Requirements for a B.A. Degree with a Major in Biology: A minimum of 120 hours is required, including: BIOL 10104 Biology for Majors. Majors may substitute another 1000-level BIOL course (BIOL 10503/ BIOL 10501 Principles of Zoology or BIOL 10303/ BIOL 10301 Plant Biology) for BIOL 10104; a maximum of four 1000-level credits may be applied toward the major. A student who, after completing BIOL 10103/ BIOL 10101 Principles of Biology/Lab with a grade of B or better in both courses, wishes to substitute BIOL 10103/ BIOL 10101 Principles of Biology for BIOL 10104 may petition the Department of Biological Sciences to do so. These petitions will be considered on a case by case basis for approval. An additional 26 hours of biological sciences, including: Biology~~

~~Core (13hours):Biology Electives (13hours):must include at least 9 hours in BIOL courses numbered 3000 or higher and at least one course numbered 2000 or higher with a laboratory. (Laboratory courses also include BIOL 4807V, BIOL 480HV, BIOL 4997V, and BIOL 499HV.)Requirements in cognate science and mathematicsinclude:Requirement in Philosophy~~

University of Arkansas and Fulbright College of Arts and Sciences Requirements for ~~Students must complete a~~ Bachelor of Arts in Biology

Select one of the following:

3

PHIL 21003	Introduction to Ethics (ACTS Equivalency = PHIL 1003)
PHIL 22003	Logic (ACTS Equivalency = PHIL 1003)
PHIL 31103	Environmental Ethics
PHIL 42103	Philosophy of Science

A:

CHEM 14103 & CHEM 14101	University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)	4
CHEM 14203 & CHEM 14201	University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)	4

Select one of the following:

4

8

CHEM 26103 & CHEM 26101	Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture) and Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)
CHEM 36053 & CHEM 36051 & CHEM 36203 & CHEM 36201	Organic Chemistry I and Organic Chemistry I Laboratory and Organic Chemistry II and Organic Chemistry II Laboratory

B:

PHYS 20103 & PHYS 20104	College Physics I (ACTS Equivalency = PHYS 2014 Lecture) and College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	4
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PHYS 20203 & PHYS 20204	College Physics II (ACTS Equivalency = PHYS 2024 Lecture) and College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)	4
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C:

MATH 22003	Survey of Calculus (ACTS Equivalency = MATH 2203)	3- 4
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or MATH 24004	Calculus I (ACTS Equivalency = MATH 2405)	
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D:

Select one of the following:		3- 4
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STAT 28233	Biostatistics	
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MATH 21003	Principles of Statistics (ACTS Equivalency = MATH 2103)	
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STAT 30043	Statistical Methods	
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MATH 21803	Mathematical Reasoning in a Quantitative World	
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The following minimum of 20 credit hour hours at the 3000-level or higher from requirements must be met (see Degree Completion Program Policy for 2, 3, and 4 listed above or from a combination of requirements 2, 3, and 4 above and from additional information). 3000-level or higher BIOL upper-level electives:

State minimum core requirements may vary by individual, based on placement and previous course credit earned. Once all core requirements are met, students may substitute with general electives in consultation with their academic advisor. **Bolded** courses from the course list below may be applied to portions of the State Minimum Core requirements.

<u>State Minimum Core (some classes in the major can overlap with state minimum core)</u>	<u>35</u>
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Biology²

<u>Biology Core:</u>	<u>17</u>
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<u>BIOL 10104</u>	<u>Biology for Majors (ACTS Equivalency = BIOL 1014 Lecture)</u> ¹	
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<u>BIOL 25473</u>	Cell Biology	
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<u>BIOL 23373</u>	General Genetics	
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<u>BIOL 30473</u>	Evolutionary Biology	
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BIOL 38773 General Ecology

and a minimum of one hour of Core Laboratory selected from:

BIOL 25471 Cell Biology Laboratory

BIOL 23371 General Genetics Laboratory

BIOL 38771 General Ecology Laboratory

Biology Electives- Take 13 credit hours of additional biology (BIOL) courses, which must include: 13

at least 9 credit hours in BIOL courses numbered 30000 or higher, including BIOL 4987V Senior Thesis or BIOL 499HV Honors Research in Biological Sciences

at least one course numbered 20000 or higher with a laboratory. (Laboratory courses also include BIOL 4807V, BIOL 480HV, BIOL 4997V, and BIOL 499HV.)

Chemistry ²

CHEM 14103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) 4
& CHEM 14101 and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)

CHEM 14203 University Chemistry II (ACTS Equivalency = CHEM 1424 4
& CHEM 14201 Lecture)
and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)

Choose one of the following: 4-8

CHEM 26103 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224
& CHEM 26101 Lecture)
and Organic Physiological Chemistry Laboratory (ACTS
Equivalency = CHEM 1224 Lab)

Or

CHEM 36053 Organic Chemistry I
& 36053 and Organic Chemistry I

AND

CHEM 36203 Organic Chemistry II
& CHEM 36201 and Organic Chemistry II Laboratory

Physics

PHYS 20103 College Physics I (ACTS Equivalency = PHYS 2014 Lecture) 4
& PHYS 20101 and College Physics I Laboratory (ACTS Equivalency = PHYS

2014 Lab)

<u>PHYS 20203</u>	<u>College Physics II (ACTS Equivalency = PHYS 2024 Lecture)</u>	<u>4</u>
<u>& PHYS 20201</u>	<u>and College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)</u>	

Mathematics and Statistics ²

<u>MATH 22003</u>	<u>Survey of Calculus (ACTS Equivalency = MATH 2203)</u>	<u>3-4</u>
<u>or MATH 24004</u>	<u>Calculus I (ACTS Equivalency = MATH 2405)</u>	

<u>Select one of the following:</u>		<u>3-4</u>
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<u>MATH 21003</u>	<u>Principles of Statistics (ACTS Equivalency = MATH 2103)</u>	
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<u>MATH 21803</u>	<u>Mathematical Reasoning in a Quantitative World</u>	
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<u>STAT 28233</u>	<u>Biostatistics</u>	
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<u>STAT 30043</u>	<u>Statistical Methods</u>	
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Philosophy ²

<u>Select one of the following:</u>		<u>3</u>
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<u>PHIL 21003</u>	<u>Introduction to Ethics (ACTS Equivalency = PHIL 1003)</u>	
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<u>PHIL 22003</u>	<u>Logic (ACTS Equivalency = PHIL 1003)</u>	
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<u>PHIL 31103</u>	<u>Environmental Ethics</u>	
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<u>PHIL 42103</u>	<u>Philosophy of Science</u>	
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<u>Any UA-Fayetteville credit hours numbered at the 30000-level or higher (may be fewer hours depending on choices in the major)</u>	<u>10</u>
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<u>General Electives</u>	<u>10-16</u>
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Total Hours	120
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¹

Majors may substitute another 1000-level BIOL course (BIOL 10503/BIOL 10501 Principles of Zoology or BIOL 10303/BIOL 10301 Plant Biology) for BIOL 10104; a maximum of four 1000-level credits may be applied toward the major. A student who, after completing BIOL 10103/BIOL 10101 Principles of Biology/Lab with a grade of B or better in both courses, wishes to substitute BIOL 10103/BIOL 10101 Principles of Biology for BIOL 10104 may petition the Department of Biological Sciences to do so. These petitions will be considered on a case-by-case basis for approval.

²

Students must complete a minimum of 20 credit hours at the 30000-level or higher in the major, taken from any combination of BIOL, CHEM, MATH/STAT, or PHIL requirements listed above or from additional 30000-level or higher BIOL electives.

8-Semester Plan

Biology B.A.**Eight-Semester Degree Program**

Students wishing to follow the eight-semester degree plan should see the [Eight-Semester Degree Policy](#) for university requirements of the program. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area.

First Year	Units
	FallSpring
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1) ¹	3
Select one of the following (Satisfies General Education Outcome 2.1): ¹	3-4
MATH 12003 Plane Trigonometry (ACTS Equivalency = MATH 1203)	
MATH 13004 Precalculus Mathematics (ACTS Equivalency = MATH 1305)	
MATH 24004 Calculus I (ACTS Equivalency = MATH 2405) ³	
BIOL 10104 Biology for Majors (ACTS Equivalency = BIOL 1014 Lecture) (Satisfies State Minimum Core Nature Science and General Education Outcome 3.4) ¹	4
Satisfies State Minimum Core Nature Science and General Education Outcome 3.4	
CHEM 14103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)	4
& CHEM 14101 University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)	
General Elective	0-1
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.2) ¹	3
MATH 22003 Survey of Calculus (ACTS Equivalency = MATH 2203)	3-4
or MATH 24004 Calculus I (ACTS Equivalency = MATH 2405)	
CHEM 14203 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)	4
& CHEM 14201 University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)	
Select one of the following (Satisfies General Education Outcome 4.2):	- 3
HIST 20003 History of the American People to 1877 (ACTS Equivalency = HIST 2113)	
HIST 20103 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)	
PLSC 20003 American National Government (ACTS Equivalency = PLSC 2003)	
<u>U.S. History or Government State Minimum Core (Satisfies General Education Outcome 4.2)</u>	<u>3</u>
¹ Fine Arts State Minimum Core (Satisfies General Education Outcome 3.1) ¹	3
Year Total:	15 16
Second Year	Units
	FallSpring
BIOL 25473 Cell Biology	3
or BIOL 22273 General Genetics	

or BIOL 23373 General Genetics		
Select from the following:		4
CHEM 36053 Organic Chemistry I		
& CHEM 36051 Organic Chemistry I Laboratory		
or		
BIOL 23373 General Genetics	-	-
& BIOL 23371 General Genetics Laboratory ³		
<u>CHEM 26103 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)</u>	=	=
<u>& CHEM 26101 Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)</u>		
State Minimum Core Social Sciences (Satisfies General Education Outcome 3.3) ¹		3
State Minimum Core Social Sciences (Satisfies General Education Outcome 3.3)(as needed) or General Elective⁵	3	-
General Elective (Select a course that satisfies General Education Outcome 4.1)⁶	3	-
<u>State Minimum Core Social Sciences (Satisfies General Education Outcome 5.1)¹</u>	<u>3</u>	=
<u>General Electives¹</u>	<u>3</u>	=
Select one of the following:	-	3-4
BIOL 23373 General Genetics		3
or BIOL 25473 Cell Biology		
Biology elective		
BIOL 30473 Evolutionary Biology^{3,4}		
Select one of the following:		4
CHEM 36203 Organic Chemistry II		
& CHEM 36201 Organic Chemistry II Laboratory		
CHEM 26103 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	-	-
& CHEM 26101 Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)³		
<u>General Electives</u>		
Select one of the following:		3
PHIL 21003 Introduction to Ethics (ACTS Equivalency = PHIL 1003) (Satisfies General Education Outcomes 3.2 and 5.1)		
PHIL 22003 Logic (ACTS Equivalency = PHIL 1003)		
PHIL 31103 Environmental Ethics		
PHIL 42103 Philosophy of Science		
State Minimum Core Social Sciences (Satisfies General Education Outcome 3.3)⁵		
State Minimum Core Humanities (Select a course that satisfies both General Education Outcome 3.2 and 5.1) (as needed) or General Elective⁷	-	3
General Elective or Social Sciences State Minimum Core (as needed)	-	3
<u>State Minimum Core Humanities (Select a course that satisfies both General Education Outcome 3.2 and 4.1) (if needed) or General Electives¹</u>	=	<u>3</u>
<u>State Minimum Core Social Sciences (Satisfies General Education Outcome 3.3)¹</u>	=	
<u>General electives¹</u>	=	<u>2</u>
Year Total:	16	15

Third Year

Units
FallSpring

~~One of the following:~~

~~3-4-~~

BIOL 30473 Evolutionary Biology

3

or BIOL 38773 General Ecology

~~BIOL 38773 General Ecology~~

~~- -~~

~~& BIOL 38771 General Ecology Laboratory^{3,4}
Biology Elective~~

PHYS 20103 College Physics I (ACTS Equivalency = PHYS 2014 Lecture)

4

& PHYS 20101 College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)

Select one of the following:

~~3-4-~~

Select one of the following:

3-4

MATH 21003 Principles of Statistics (ACTS Equivalency = MATH 2103)

MATH 21803 Mathematical Reasoning in a Quantitative World

Select one of the following as needed:

3 -

~~State Minimum Core Social Sciences (Satisfies General Education Outcome 3.3) (if needed)⁵~~

~~PHIL 21003 Introduction to Ethics (ACTS Equivalency = PHIL 1003) (Satisfies General Education Outcomes 3.2 and 5.1)~~

~~PHIL 22003 Logic (ACTS Equivalency = PHIL 1003)³~~

~~PHIL 31103 Environmental Ethics^{3,4}~~

~~PHIL 42103 Philosophy of Science^{3,4}~~

STAT 28233 Biostatistics

STAT 30043 Statistical Methods

& STAT 30041 Statistics Methods Laboratory

General Electives¹

4-5

Select one of the following:

~~- 3-4~~

PHYS 20203 College Physics II (ACTS Equivalency = PHYS 2024 Lecture)

4

& PHYS 20201 College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)

General Elective

~~- 3~~

~~General Elective (select a course that satisfies General Education Outcome 1.2)⁸~~

~~- 3~~

BIOL 38773 General Ecology

3

or BIOL 30473 Evolutionary Biology

~~BIOL 30473 Evolutionary Biology ((if still needed) or)^{3,4}~~

~~BIOL 3000-4000 Level Elective^{3,4}~~

~~BIOL 3000-4000 Level Elective^{3,4}~~

~~- 3-4~~

Choose 1:

= 1

BIOL 25471 Cell Biology Laboratory

BIOL 23371 General Genetics Laboratory

BIOL 38771 General Ecology Laboratory

BIOL Elective¹

4

<u>BIOL Elective</u>	=	<u>±</u>
<u>General Electives¹</u>	=	<u>3</u>
Year Total:		15 15
Fourth Year		Units
		FallSpring
BIOL 3000-4000 Level Biology Elective^{3,4}		3-4-
BIOL 3000-4000 Level Biology Elective^{3,4}		3-4-
General Electives		6 -
<u>BIOL Elective²</u>		<u>3</u> =
<u>BIOL Elective²</u>		<u>3</u> =
<u>General Electives¹</u>		<u>9</u> =
BIOL 3000-4000 Level Elective^{3,4}		- 3-4
BIOL 3000-4000 Level Elective^{3,4}		- 3-4
Upper Level Elective in Fulbright College (if needed for 24-hour rule) or General Elective		- 3
General Electives (as needed to total 120-degree hours)		- 3-4
<u>BIOL Elective²</u>		= <u>3</u>
<u>Any UA-Fayetteville credit hours numbered at the 30000-level or higher (as needed)</u>		= <u>10</u>
Year Total:		15 13
Total Units in Sequence:		120

¹ Students must complete the State Minimum Core and the requirements of their major(s) as outlined in the Catalog of Studies. These courses also fulfill many, if not all, of the General Education Requirements. Please visit these pages in the links provided and consult with your academic advisor when making course selections to fulfill these requirements.

² Within the BIOL electives, students must:
 Take at least 9 credit hours in BIOL courses numbered 30000 or higher, including BIOL 4987V Senior Thesis or BIOL 499HV Honors Research in Biological Sciences (meets GELO 6.1)
 Take at least one course numbered 2000 or higher with a laboratory. (Laboratory courses also include BIOL 4807V, BIOL 480HV, BIOL 4997V, and BIOL 499HV.)

~~³Meets 40-hour advanced credit hour requirement. See College Academic Regulations.⁴
 Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations.~~

~~⁵ The Social Sciences Elective courses which satisfy General Education Outcome 3.3 include:
 AGEC 11003%7CCode, AGEC 21003%7CCode, ANTH 10203%7CCode, COMM 10203%7CCode,
 EGON 21003%7CCode, EGON 22003%7CCode, EGON 21403%7CCode, EDST 20003%7CCode,
 HDFS 14003%7CCode, HDFS 24103%7CCode, HDFS 26003%7CCode, HIST 11193%7CCode, HIST
 111H3%7CCode, HIST 11293%7CCode, HIST 112H3%7CCode, HIST 20003%7CCode, HIST
 20103%7CCode, HIST 20903%7CCode, HUMN 111H4%7CCode, HUMN 211H4%7CCode, INST
 28103%7CCode, INST 281H3%7CCode, PLSC 20003%7CCode, PLSC 20103%7CCode, PLSC
 21003%7CCode, PLSC 28103%7CCode, PLSC 281H3%7CCode, PSYC 20003%7CCode, RESM~~

~~28503%7CCode, SOCI 10103%7CCode, SOCI 101H3%7CCode, or SOCI 20103%7CCode.~~

~~6~~

~~Courses which satisfy the General Education Outcome 4.1 include:—~~

~~AGED 23003%7CCode, AMPD 10103%7CCode, ANTH 10203%7CCode, ANTH 10303%7CCode, ANTH 40103%7CCode, ARCH 10003%7CCode, CATE 31003%7CCode, CLST 10003%7CCode, CLST 100H3%7CCode, CLST 10103%7CCode, COMM 10203%7CCode, GEOG 21003%7CCode, GEOG 210H3%7CCode, GERM 20103%7CCode, HDFS 14003%7CCode, HDFS 24103%7CCode, HDFS 24903%7CCode, HIST 11193%7CCode, HIST 111H3%7CCode, HIST 11293%7CCode, HIST 112H3%7CCode, HIST 20903%7CCode, HORT 11003%7CCode, HRDE 41303%7CCode, HUMN 111H4%7CCode, HUMN 112H4%7CCode, HUMN 211H4%7CCode, HUMN 22103%7CCode, INST 28103%7CCode, INST 281H3%7CCode, LALS 20103%7CCode, LARG 10003%7CCode, MUSY 20003%7CCode, MUSY 200H3%7CCode, NURS 40233%7CCode, PHIL 31103%7CCode, PHIL 40903%7CCode, PHIL 41103%7CCode, PLSC 20103%7CCode, PLSC 28103%7CCode, PLSC 281H3%7CCode, RESM 28503%7CCode, SGWK 31903%7CCode, SOCI 10103%7CCode, SOCI 101H3%7CCode, SOCI 20103%7CCode, ENGL 11103%7CCode, ENGL 11203%7CCode, or intermediate-level world language.~~

~~7~~

~~The Humanities Elective courses which satisfy both General Education Outcomes 3.2 and 5.1 include:—~~
~~CLST 10003%7CCode, CLST 100H3%7CCode, CLST 10103%7CCode, HUMN 112H4%7CCode, PHIL 20003%7CCode, PHIL 200H3%7CCode, PHIL 21003%7CCode.~~

~~8~~

~~Courses which satisfy the General Education Outcome 1.2 include: AGOM 31403%7CCode, AGOM 314H3%7CCode, AGED 31303%7CCode, AGED 41203%7CCode, CATE 40103%7CCode, CATE 40612%7CCode, SPCH 10003%7CCode, ENGL 10303%7CCode, ENGL 103H3%7CCode, INST 33003%7CCode, INST 35003%7CCode, INST 36003%7CCode, INST 46003%7CCode, NURS 40932%7CCode, NURS 41152%7CCode, or NURS 47031%7CCode.~~

~~General Education Outcome 6.1: Biology Capstone Experience—Biology Capstone Experience and the Fulbright College writing requirement may be met by one of the following:—Completion of an Honors research project and preparation of a thesis (BIOL 499HV):Students will prepare an Honors thesis on original research and an oral presentation of the research to an Honors defense committee followed by defense.Students using this approach will satisfy General Education outcome 1.2 and partially satisfy General Education outcome 6.1 (additional requirement below).or Completion of a senior thesis (BIOL 4987V) supervised by a faculty member in Biological Sciences following the guidelines defined by the Department of Biological Sciences.Students must enroll in BIOL 4987V with the supervising faculty member in the semester they are preparing the thesis.Students using this approach will partially satisfy General Education outcome 6.1 (additional requirement below).and In addition to one of the above:All Biology majors, Honors and non-Honors, must complete and submit a 1,250-word document demonstrating at least three of the five skills and abilities listed below that were used in their Capstone Experience.In completing the document, students should reflect on the skills and abilities gained through Learning outcomes 1 through 5 and how these were utilized in completing the integrative project (To complete General Education outcome 6.1).Written, oral, and/or multimodal communication abilities Quantitative literacy Characteristics of inquiry and action in the major and in one of the Learning Outcomes under Goal 3 besides the disciplinary area of the major Diversity awareness and/or intercultural competency Critical thinking and/or ethical reasoning~~

Are Similar Programs available in the area?

Yes

List institutions in
Arkansas offering
similar programs

N/A existing program

Why is the
Program needed if
offered at other
institutions?

N/A existing program

Estimated Student 200-300 N/A

Demand for
Program

Scheduled 2028-2029 N/A

Program Review
Date

Program Goals and
Objectives

Program Goals and Objectives

1. Foster the scientific curiosity of students about biological sciences.
2. Communicate the current state of knowledge and technology to students.
3. Nurture critical thinking, reasoning, and problem-solving abilities.
4. Enhance students' communication skills for communicating scientific ideas.
5. Prepare students to achieve academic and professional success. N/A-existing program

Learning Outcomes

Learning Outcomes

The following learning outcomes mirror those proposed in several recent reviews of biology pedagogy. They apply to the both the introductory biology course and to completion of the department's common core of courses, cell biology, genetics, evolutionary biology, and ecology.

1. Show that you can understand data that support the hypothesis that all organisms are genealogically related including the recognition that all organisms are cellular and that they share the same basic genetic system.
2. Show that you can understand data that support the hypothesis that all organisms need energy and a source of building blocks to maintain themselves, grow, and reproduce.

Learning Outcomes

3. Show that you can understand data that support the hypothesis that all organisms use information to maintain themselves, grow, and reproduce, and that that information can both be stored genetically and be received from the environment.
4. Show that you can understand data that support the hypothesis that all organisms interact both with other organisms and with the physical components of their environment and that these interactions affect their ability to maintain themselves, grow, and reproduce.
5. Show that you can distinguish data-supported interpretations of biological systems from anecdotal information.
6. Show that you can understand and use quantitative methods for explaining how biological systems work. This will include graph interpretation, table interpretation, and basic mathematical formulas.
7. Show that you can apply the information that has been presented during the course to novel situations. ~~N/A existing program~~

Description and justification of the request

Description of specific change	Justification for this change
<p>Updated major to require students to take BIOL 4987V or BIOL 499HV (GELO 6.1 assessed courses). No change in overall size of major as new requirements can fit withing 13 hours of BIOL electives.</p> <p>Update 8 semester plan to reflect new requirement and to clarify how GELOs and State Minimum Core are met. Also made corrections to how many BIOL electives were being required (the current 8 semester plan was requiring more BIOL 30000-40000 electives than the major requires.)</p> <p>Complete reformat to follow current ARSC standard (recommend using Hide Changes view to see new formatting. Have also attached document with reformatted information).</p>	<p>Updated major to require students to take BIOL 4987V or BIOL 499HV (GELO 6.1 assessed courses). No change in overall size of major as new requirements can fit withing 13 hours of BIOL electives.</p> <p>Update 8 semester plan to reflect new requirement and to clarify how GELOs and State Minimum Core are met. (the current 8 semester plan was requiring more BIOL 30000-40000 electives than the major requires.)</p> <p>Complete reformat to follow current ARSC standard (recommend using Hide Changes view to see new formatting. Have also attached document with reformatted information).</p>

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Reviewer
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