

Approval Chart for Curriculum Changes

A = Approve I= Information Item¹ R= Advise & Respond²

Course Number BIOL 476

State the requested change and reason. A memo may be attached if more space is necessary.

Molecular biology is a growing field and an area of growth in the ACU Department of Biology. **BIOL 476 Biotechnology Laboratory** is an essential course in the Cellular/Molecular Biology Track (BICM). However, as a 2 credit course, BIOL 476 has struggled to recruit enrollment of students pursuing other degree tracks. We intend to increase the lecture component of this class to better support the laboratory activities and to make BIOL 476 into a 3 credit course that fulfills degree requirements for most students in biology and related degree tracks.

Former hours: BIOL 476 Biotechnology Laboratory (0-6-2)

Proposed hours: BIOL 476 Biotechnology ~~Laboratory~~ (1-6-3)

We also seek to shorten the name of the course BIOL 476 Biotechnology Laboratory to **BIOL 476 Biotechnology**. BIOL 476 Biotechnology is not taken concurrently with a related lecture class and already functions like a lecture class because it requires preparation outside of contact hours. Therefore, the removal of the word 'Laboratory' from the title best describes this class that embodies characteristics of both lecture and lab courses.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

Change to a Course		COUNCIL ³								
		Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	President
1.	Title (description unchanged)	A	A	A		I			I	I
2.	Description (not affecting content)	A	A	A		I			I	I
3.	Course term(s)	A	I	A		I			I	I
4.	Content (substantive change)	A	A	A		I			A	A
5.	Number of hours (lecture, lab, contact)	A	A	A		A			A	A
6.	Course number within the hundred	A	A	I		I			I	I
7.	Course number beyond the hundred	A	A	A		A			A	A
8.	Prerequisites	A	A	A		I			I	I
9.	Course fee(s)	A	--	A		--			A	I
10.	From U to G or G to U	A	A	A		A			A	A
11.	Cross list with another department: U or G level	A	A	A		A			A	A
12.	Department of record	A	A	A		A			A	A
13.	Open or close a course	A	A	A		A			A	A
14.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A		A			A	A

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

Approval Chart for Curriculum Changes

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COUNCIL ³												
	Change to a Degree Plan	Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	Faculty	President	Board of Trustees
1.	University Requirements — Change in approved course content ⁶	A	A	A	A				A	--	A	--
2.	University Requirements — Add or drop a required course from the University Requirements chart ⁶	A	A	A	A				A	A	A	--
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A				A	--	A	--
4.	University Requirements — Change hours within a menu on the University Requirements chart ⁶	A	A	A	A				A	A	A	--
5.	Major — Revision of major ^{4,5}	A	A	A	A				A	--	A	--
6.	Major — Adopt or change admission requirements	A	A	A	A				A	--	A	--
7.	Major — Add ^{4,5}	A	A	A	A				A	A	A	I
8.	Major – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I
9.	Major – Discontinue (proposed by the Provost)	See below.										
10.	GPA — Revise major or cumulative requirement	A	A	A	A				A	A	A	--
11.	Minor — Revise course selection	A	A	A	I				I	--	I	--
12.	Minor — Add	A	A	A	A				A	--	A	--
13.	Minor – Discontinue (proposed by the department or college)	A	A	A	A				A	--	A	--
14.	Minor – Discontinue (proposed by the Provost)	See below.										
15.	Degree — Add	A	A	A	A				A	A	A	I
16.	Degree – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I
17.	Degree – Discontinue (proposed by the Provost)	See below.										
18.	Any change to a graduate degree program	A	A	A	A				A	--	A	--

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UUAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL ³										
	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	--	--	--		A		A	A	A
2.	Admission requirements	--	--	--		A		A	A	A
3.	Policies governing academic probation and suspension	--	--	--		A		A	A	A
4.	Requirements for graduating with honors	--	--	--		A		A	A	A
5.	Other academic policy changes	--	--	--		A		A	--	A

¹ Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

² The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

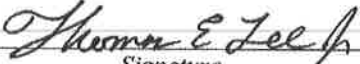
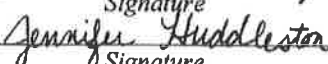
⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

⁶ Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

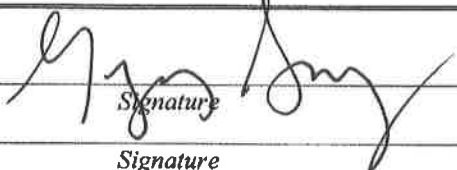
⁷ The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 3-8-17

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	5 Feb. 2018 Approval date
 Signature	2/5/18 Approval date

College Academic Council(s)	
 Signature	3.2.18 Approval date
 Signature	 Approval date

Dean(s)	
 Signature	3/6/18 Approval date
 Signature	 Approval date

Teacher Education Council	
 Chair's signature	 Approval date

General Education Council	
 Chair's signature	 Approval date

Undergraduate Academic Council	
 Chair's signature	 Approval date

Graduate Council	
 Chair's signature	 Approval date

Provost	
 Signature	 Approval date

Faculty	
 Chair of faculty senate	 Approval date

President	
 Signature	 Approval date

memo

To: UUAC
From: Jessica Smith
Date: March 26, 2018
Re: Collateral effect of changes to BIOL 476 on degree plans outside of Biology

A proposal by the Department of Biology would increase BIOL 476 to 3 credit hours and change its name to Biotechnology. This change would affect two degree plans that require ANSC 431 Animal Biotechnology, offered by the Department of Agricultural and Environmental Sciences. ANSC 431 is required in two degree plans:

- Animal Science, Biotechnology and Research, BS (ANSC-BR)
- Animal Science, Livestock Management, BS (ANSC-LM)

The A&E department chair, Jim Carpenter, is aware of the change in hours to BIOL 476 (email attached). BIOL 476 had been required for only one of the emphases of the ANSC-BR track but in reality was required by both because of the inclusion of ANSC 431 in the Biotechnology and Research Track core.

We have updated both degree plans to make this unstated requirement plain in the tracks. BIOL 475 is also a prerequisite of ANSC 431, and it likewise has been moved or added in the degree plans. Formally adding the Biology hours has been accounted for by reducing the number of elective hours in the degree plans.

Animal Science, Biotechnology and Research, BS (ANSC-BR) Major Requirements

Agricultural and Environmental Sciences Core

AENV 110 - Introduction to Agricultural and Environmental Systems and Technology Credit Hours: 3
ANSC 111 - General Animal Science Credit Hours: 3
ENVR 112 - Plant Science Credit Hours: 3
ENVR 233 - Soil Science Credit Hours: 3
Total: 12 Credit Hours

Animal Science Core

AGRB 261 - Principles of Agricultural and Applied Economics Credit Hours: 3 *
AGRB 382 - Agribusiness Management Credit Hours: 3
ANSC 336 - Animal Nutrition Credit Hours: 3
ANSC 343 - Animal Reproduction Credit Hours: 3
ANSC 392 - Animal Health Credit Hours: 3
ANSC 496 - Animal Breeding Credit Hours: 3
ANSC 497 - Special Problems in Animal Science Credit Hours: 3 (capstone and writing-intensive course)

*Hours may also fulfill university requirements and are not included in total major hours.

Total: 18 Credit Hours

Biotechnology and Research Track (BR)

AENV 371 - Experimental Designs and Data Analysis Credit Hours: 3
ANSC 337 - Animal Nutrition Lab Credit Hours: 1
ANSC 431 - Animal Biotechnology Credit Hours: 3
BIOL 475 - Molecular Genetics Credit Hours: 3
BIOL 476 - Biotechnology Credit Hours: 3

Moved (insertion) [1]

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Deleted: Laboratory

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Mathematics

MATH 124 - Precalculus II Credit Hours: 3 *

*Hours may also fulfill university requirements and are not included in total major hours

Science Requirements

BIOL 112 - General Biology I Credit Hours: 3 *
BIOL 114 - General Biology I Laboratory Credit Hours: 1
BIOL 113 - General Biology II Credit Hours: 3
BIOL 115 - General Biology II Laboratory Credit Hours: 1
BIOL 351 - Genetics Credit Hours: 3
CHEM 133 - General Chemistry I Credit Hours: 3 *

*Hours may also fulfill university requirements and are not included in total major hours

Recommended Emphases (choose 1):

Biotechnology Emphasis (3 hours)

Deleted: 8

BIOL 312 - Cell Biology Credit Hours: 3

Research Emphasis (7 hours)

Moved up [1]: BIOL 475 - Molecular Genetics Credit Hours: 3¶
BIOL 476 - Biotechnology Laboratory Credit Hours: 2¶

ANSC 345 - Techniques in Animal Production Credit Hours: 1

Choose 2 from the following:

ANSC 235 - Companion Animal Management Credit Hours: 3
ANSC 363 - Monogastric Livestock Production Credit Hours: 3
ANSC 483 - Ruminant Livestock Production Credit Hours: 3
ENVR 350 - Rangeland Ecology Credit Hours: 3

Total: ~~24-28~~ Credit Hours

Deleted: 1

Deleted: 15

Supplement for Major (BR Track)

CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
CHEM 132 - General Chemistry Laboratory I Credit Hours: 1
CHEM 134 - General Chemistry II Credit Hours: 3
CHEM 221 - Organic Chemistry Laboratory I Credit Hours: 1
CHEM 223 - Organic Chemistry I Credit Hours: 3
CHEM 322 - Organic Chemistry Laboratory II Credit Hours: 1
CHEM 324 - Organic Chemistry II Credit Hours: 3

Total: 13 Credit Hours

Electives

Minimum - ~~1-5~~ Credit Hours

Deleted: 6-7

Total Major Hours: 72

Other Graduation Requirements

Minimum GPA for graduation: 2.00

Minimum advanced hours: 33

Minimum total hours: 128

*Courses numbered 0** do not count in minimum hours required for degree.*

Animal Science, Livestock Management, BS (ANSC-LM)

Major Requirements

Agricultural and Environmental Sciences Core

AENV 110 - Introduction to Agricultural and Environmental Systems and Technology Credit Hours: 3
ANSC 111 - General Animal Science Credit Hours: 3
ENVR 112 - Plant Science Credit Hours: 3
ENVR 233 - Soil Science Credit Hours: 3
Total: 12 Credit Hours

Animal Science Core

AGRB 261 - Principles of Agricultural and Applied Economics Credit Hours: 3 *
AGRB 382 - Agribusiness Management Credit Hours: 3
ANSC 336 - Animal Nutrition Credit Hours: 3
ANSC 343 - Animal Reproduction Credit Hours: 3
ANSC 392 - Animal Health Credit Hours: 3
ANSC 496 - Animal Breeding Credit Hours: 3
ANSC 497 - Special Problems in Animal Science Credit Hours: 3 (capstone and writing-intensive course)

*Hours may also fulfill university requirements and are not included in total major hours.
Total: 18 Credit Hours

Livestock Management Track (LM)

ANSC 337 - Animal Nutrition Lab Credit Hours: 1
ANSC 345 - Techniques in Animal Production Credit Hours: 1
ANSC 483 - Ruminant Livestock Production Credit Hours: 3
ENVR 350 - Rangeland Ecology Credit Hours: 3

Kinesiology

ANSC 360 - Horses and Horsemanship Credit Hours: 3 * (for 1 hour of PEAC activity)

*Hours may also fulfill university requirements and are not included in total major hours

Mathematics

MATH 123 - Elementary Statistics Credit Hours: 3 *

*Hours may also fulfill university requirements and are not included in total major hours

Science Requirements

BIOL 112 - General Biology I Credit Hours: 3 *
BIOL 114 - General Biology I Laboratory Credit Hours: 1
BIOL 113 - General Biology II Credit Hours: 3
BIOL 115 - General Biology II Laboratory Credit Hours: 1
BIOL 351 - Genetics Credit Hours: 3
CHEM 113 - Introductory Chemistry Credit Hours: 3 *

*Hours may also fulfill university requirements and are not included in total major hours

Recommended Emphases (choose 1):

Animal Production Emphasis (20 hours)

Deleted: 14

AENV 371 - Experimental Designs and Data Analysis Credit Hours: 3
ANSC 235 - Companion Animal Management Credit Hours: 3
ANSC 360 - Horses and Horsemanship Credit Hours: 3 *
ANSC 363 - Monogastric Livestock Production Credit Hours: 3
ANSC 431 - Animal Biotechnology Credit Hours: 3
BIOL 475 - Molecular Genetics Credit Hours: 3
BIOL 476 – Biotechnology Credit Hours: 3

*(1 hour counts in Kinesiology section above, and 2 hours count for track requirements.)

Rangeland Ecology Emphasis (13 hours)

ENVR 345 - Range and Wildland Plants Credit Hours: 3
ENVR 354 - Range Science Credit Hours: 3
ENVR 455 - Wildlife Ecology Credit Hours: 4
Choose 1 from the following:

AENV 371 - Experimental Designs and Data Analysis Credit Hours: 3
ANSC 235 - Companion Animal Management Credit Hours: 3
ANSC 363 - Monogastric Livestock Production Credit Hours: 3
ENVR 341 - Water Resources Credit Hours: 3

Total: 21-28 Credit Hours

Deleted: 2

Supplement for Major (LM Track)

CHEM 111 - Introductory Chemistry Laboratory Credit Hours: 1
CHEM 112 - Introductory Organic and Biological Chemistry Laboratory Credit Hours: 1

CHEM 114 - Introductory Organic and Biological Chemistry Credit Hours: 3
Total: 5 Credit Hours

Electives

Minimum - 1-8 Credit Hours

Deleted: 7-8

Total Major Hours: 72

Other Graduation Requirements

Minimum GPA for graduation: 2.00

Minimum advanced hours: 33

Minimum total hours: 128

Courses numbered 0** do not count in minimum hours required for degree.

BIOL 476 Proposal

Jim Carpenter <jac16d@acu.edu>
To: Jessica Smith <jes98k@acu.edu>

Mon, Mar 12, 2018 at 1:24 PM

Jessica,

This brings up some of the problems I've been discovering with the curriculum. ANSC 431 (which we're currently not offering because of a lack of faculty) has both BIOL 475 and BIOL 476 as prerequisites. Which means that if all BR students need ANSC 431, then they all have to take BIOL 475 and 476. Thus Research emphasis students have to take 5 (soon to be 6) hours not shown. So they really have only 2 (soon to be 1) elective hours. The same is true of the LM track, Animal Production emphasis, as you mentioned with BIOL 476. I can't just move BIOL 475 and 476 to the Science Requirements, since the LM Rangeland Ecology emphasis doesn't require ANSC 431. The best we can do until I can restructure these degree plans is to

1. move BIOL 475 and BIOL 476 from the BR Biotechnology emphasis to the main track courses, increasing it from 7 to 13, and reducing the electives accordingly,
2. add BIOL 475 and BIOL 476 to the LM Animal Production emphasis, increasing it from 14 to 20, and reducing its electives accordingly.

Will this work for you?

In Him,

JimC

On Fri, Mar 9, 2018 at 3:17 PM, Jessica Smith <jes98k@acu.edu> wrote:

Hi, Jim —

The Biology Department is updating its curriculum, and as part of that, they are changing BIOL 476 from a 2-hour to a 3-hour course.

The registrar's office has identified two ways that this will affect some of your degree plans. Would you take a look at the suggestions that Karen made below?

This would reduce the number of elective hours in the Biotechnology and Research track to 5-6 hours from 6-7. To address the indirect effect she mentions for Livestock Management, it would probably be smart to put BIOL 476 (acknowledge that 3-hour prerequisite) in the Science Requirements menu and reduce the number of electives to 4-5 hours from 7-8. For that matter, you might want to go ahead and add BIOL 476 to the Science Requirements in ANSC-BR since the same situation exists there with the ANSC 431 prerequisite.

Will you please let me know what changes you would like to make to your degree plans in response to this? I'm available to visit if you need to. It would be helpful to hear by Monday, March 19, and no later than Monday, March 26. We would attach an email from you to the Biology proposal; you would not have to make a separate curriculum proposal yourself.

Thank you! -j

----- Forwarded message -----

From: **Karen Witemeyer** <kmw03d@acu.edu>

Date: Thu, Mar 8, 2018 at 11:35 AM

Subject: BIOL 476 Proposal

To: Jessica Smith <jes98k@acu.edu>

Hi, Jessica. This is my last issue with the new proposals. (I hope!)

The change in hours for BIOL 476 affects two degrees in Animal Science. I think we will need to get their approval as well as revisions of their degrees before we can move forward with changing the hours.

First is Animal Science, Biotechnology and Research. Students are told to pick one area of emphasis. Biotechnology is the first option. It currently has 8 required hours, with BIOL 476 being two of those hours. Changing that to a 3 hours course would increase those total hours to 9. Electives would have to be adjusted to allow for that change.

Second is an indirect influence. ANSC 431 - Animal Biotechnology is a required course for the Animal Science Biotechnology and Research track and is also part of one of the required emphasis options in the Animal Science Livestock Management degree (Animal Production Emphasis). BIOL 476 is a prerequisite for ANSC 431.

Let me know how you would like to handle this.

Thanks!

~Karen

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