

The Biology Department is requesting to swap the content of the majors General Biology lecture and lab courses. We currently teach the content of these courses in reverse order with respect to the textbook and other institutions. This has resulted in pedagogical problems as students are not learning foundational material in a logical way. Additionally, there is constant confusion for students transferring introductory biology courses into or out of ACU; it is often difficult to determine how our courses align with other institutions given our 'backward' ordering. As such, we would like to teach the content of 'General Biology I lecture and lab (BIOL 112/114)' during the second semester of introductory biology, and teach the content of 'General Biology II lecture and lab (BIOL 113/115)' during the first semester of introductory biology. These are the specific changes we are requesting:

- BIOL 121 (*old 113*): Introductory Biology I (*old General Biology II*)
- BIOL 122 (*old 115*): Introductory Biology I Lab (*old General Biology II lab*)
- BIOL 123 (*old 112*): Introductory Biology II (*old General Biology I*)
- BIOL 124 (*old 114*): Introductory Biology II Lab (*old General Biology I lab*)

memo

To: Rebecca Hunter
From: Jessica Smith
Date: February 12, 2020
Re: Effect of changes to introductory biology courses

Degree plans that include BIOL 112, 113, 114, and 115:

- AGRB (Ag & Env)
- AHPC (Ag & Env)
- ANSC (Ag & Env)
- ENVR (Ag & Env)
- BCHA (C&BC)
- BCH (C&BC)
- CPST (C&BC)
- HPCO-BCH (C&BC)
- BIOL BA, BS, minor (Biology)
- BIOT (Biology)
- HPCO-BIOL (Biology)
- ENGR (E&P)
- PHMT (E&P)
- PHYS (E&P)
- KINE (K & N)
- MATH (Math)
- MSED (Teacher Ed)

All chairs outside the Department of Biology were provided updated degree plans reflecting the renumbering and renaming of the courses and considered which courses would best continue to serve their students. The chairs of Chemistry and Biochemistry, Kinesiology & Nutrition, Mathematics, and Teacher Education affirmed the updates to their degree plans.

The Department of Agricultural and Environmental Sciences has submitted degree plan revisions separately, and the changes to the general biology courses will be addressed in those revisions. The Department of Engineering and Physics requested additional time to consider the changes.

The only courses outside the Department of Biology or Honors sections of Biology courses to use BIOL 112, 113, 114, or 115 as a prerequisite are ANSC 343, ANSC 392, and PSYC 233.

In addition, the Science menu of the University Requirements for associate's degrees and bachelor's degrees will reflect the renumbering and renaming.

I appreciate the collegial approach of the Department of Biology to ensure that we've considered all collateral effects.



Jessica Smith <jes98k@acu.edu>

general biology changes and C&BC

Autumn Sutherlin <als03c@acu.edu>

Fri, Jan 17, 2020 at 3:59 PM

To: Jessica Smith <jes98k@acu.edu>

I affirm.

Autumn Sutherlin, Ph.D.
Chair and Professor
Department of Chemistry and Biochemistry
Abilene Christian University

On Tue, Jan 7, 2020 at 2:57 PM Jessica Smith <jes98k@acu.edu> wrote:

Hi, Autumn —

I believe you heard from Rebecca Hunter late in the fall semester about a coming change to the general biology courses. The Department of Biology is proposing to reorder and renumber these courses.

Because these courses are so widely used in programs and prerequisites, we are planning to administratively update the affected degree plans and course prerequisites rather than ask each department to apply for its own curriculum changes.

I have attached the collateral changes to your 7 affected degree programs. The change was very straightforward for your department, and I don't believe there's anything you'll want to reconsider.

Would you please reply all to let me know by **Jan. 17** if you affirm the effect on your programs or if we need to discuss anything further? Thanks! -j

Jessica Smith, Ph.D.
Assistant Provost for Curriculum and Assessment
Abilene Christian University
325-674-2024

Hi Jessica,

Yes, for KNPT, the numbers just need to be changed since both BIOL I and II are required. What you have done on the degree plan looks great. For KGEN, we want BIOL 121/122 or above listed. Attached is the KGEN degree plan with changes. I will check with MSOT concerning what we need to do for the KNOT degree plan. I will get back to you.

Thanks!

Sheila

Sheila Jones, PhD, RD, LD
Chair, Department of Kinesiology and Nutrition
ACU Box 28084
Abilene, Texas 79699
(325) 674-2089

Romans 8:38-39

Major Requirements

Kinesiology

- [KINE 100 - Lifetime Wellness](#) Credit Hours: 1 *
- [KINE 206 - Strength Training](#) Credit Hours: 1 *
- [KINE 232 - Structural Kinesiology](#) Credit Hours: 3
- [PSYC 120 - Introduction to Psychology](#) Credit Hours: 3 *
-
- *Hours may also fulfill university requirements and are not included in total major hours

Total: 3 Credit Hours

Generalist (KGEN)

- ~~BIOL 112 - General Biology I~~ Credit Hours: 3 * (or higher)
- ~~BIOL 114 - General Biology I Laboratory~~ Credit Hours: 1 (or higher)
- ~~BIOL 1213 Introductory Biology I~~ ~~Introductory Biology II~~ Credit Hours: ~~13~~ (or higher)
- ~~BIOL 1223 Introductory Biology II Laboratory~~ Credit Hours: 1 (or higher)
- [CHEM 113 - Introductory Chemistry](#) Credit Hours: 3 * (or higher)
- [KINE 241 - First Aid/CPR](#) Credit Hours: 1
- [KINE 372 - Exercise Physiology](#) Credit Hours: 3
- [KINE 373 - Exercise Physiology Lab](#) Credit Hours: 1
- [KINE 399 - Research Methods in Kinesiology and Nutrition](#) Credit Hours: 3 (writing-intensive course)
- [KINE 420 - Exercise Science Internship](#) Credit Hours: 3 (capstone experience)
- [KINE 473 - Cardiovascular Physiology](#) Credit Hours: 3
- [KINE 485 - Clinical Exercise Physiology](#) Credit Hours: 3
- [KINE 498 - Biomechanics](#) Credit Hours: 3

Choose 1 course from:

-
- [PEAC 211 - Cross-Training](#) Credit Hours: 1
 - [PEAC 214 - Aerobics](#) Credit Hours: 1
 - [PEAC 215 - Jogging for Fitness](#) Credit Hours: 1
 - [PEAC 216 - Walking for Fitness](#) Credit Hours: 1
 - [PEAC 227 - Marathon Training](#) Credit Hours: 1
 - [PEAC 228 - Swimming for Fitness](#) Credit Hours: 1
 - [PEAC 229 - Lifeguard Training](#) Credit Hours: 1

Choose 33 hours from:

-
- KINE 200-499
 - HED 100-499
 - [NUTR 221 - Introductory Nutrition](#) Credit Hours: 3
 - [NUTR 224 - Nutrition for Exercise and Sport](#) Credit Hours: 3
 - Approved upper- level science

Total: 55 Credit Hours

Electives

Minimum - 14 Credit Hours

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.



Jessica Smith <jes98k@acu.edu>

general biology change and KINE

Sheila Jones <joness@acu.edu>

Thu, Jan 9, 2020 at 7:44 PM

To: Jessica Smith <jes98k@acu.edu>

Cc: Rebecca Hunter <rlb97a@acu.edu>

Hi Jessica,

We want to change the BIOL for KNOT to BIOL 121/122 Introductory Biology I. This will still meet the prerequisite requirements for OT schools. I have made the change on the degree plan, which is attached.

Please let me know if you need anything else.

Thanks!

Sheila

Sheila Jones, PhD, RD, LD
Chair, Department of Kinesiology and Nutrition
ACU Box 28084
Abilene, Texas 79699
(325) 674-2089

Romans 8:38-39

On Tue, Jan 7, 2020 at 3:00 PM Jessica Smith <jes98k@acu.edu> wrote:

Hi, Sheila —

I believe you heard from Rebecca Hunter late in the fall semester about a coming change to the general biology courses. The Department of Biology is proposing to reorder and renumber these courses.

Because these courses are so widely used in programs and prerequisites, we are planning to administratively update the affected degree plans and course prerequisites rather than ask each department to apply for its own curriculum changes.

I have attached the collateral changes to your 3 affected degree programs.

I'd like to note one specific issue for your department.

- Both the KINE generalist and pre-OT tracks currently include Gen Bio I. After the switch, this will be Intro Bio II. My expectation is that you will want the two tracks to require **BIOL 121 Introductory Biology I** rather than going with the one-for-one swap of BIOL 123. This would create a hidden prerequisite for your students.

The one-for-one exchange seems to work cleanly for pre-PT.

If you feel you have received sufficient information from Biology and have a clear picture of how you would like to proceed, would you please let me know by **Jan. 17** how you would like to handle the KGEN and KNOT tracks and affirm the KNPT program? If you'd like more information or we need to discuss anything further, please let me know as soon as possible so we can plan the appropriate conversations. Thanks! -j

Jessica Smith, Ph.D.
Assistant Provost for Curriculum and Assessment
Abilene Christian University
325-674-2024



KNOT Degree Plan Changes 1-7-20.docx

16K



Jessica Smith <jes98k@acu.edu>

general biology changes and Math

David Hendricks <hendricksd@acu.edu>

Wed, Jan 8, 2020 at 3:13 PM

To: Jessica Smith <jes98k@acu.edu>

Cc: Rebecca Hunter <rlb97a@acu.edu>

Our preference would be to have Introductory Biology I and lab (BIOL 121 and 122) as the selection on the Supplemental Menu just as General Chemistry I and lab (CHEM 133 and 131) are. It makes more sense to have the students select from the first semester courses (biology or chemistry).

We would want the Supplemental Menu to be the following:

Supplemental Menu

- BIOL 121 - Introductory Biology I Credit Hours: 3 *
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- or
- CHEM 133 - General Chemistry I Credit Hours: 3 *
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1

- PHYS 220 - Engineering Physics I Credit Hours: 3 *
- PHYS 221 - Engineering Physics I Laboratory Credit Hours: 1
- PHYS 222 - Engineering Physics II Credit Hours: 3
- PHYS 223 - Engineering Physics II Laboratory Credit Hours: 1

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

Choose 2 courses from the following:

- ACCT 210 - Financial Accounting Credit Hours: 3
- ACCT 211 - Managerial Accounting Credit Hours: 3
- BIOL 121 - Introductory Biology I Credit Hours: 3
- BIOL 122 - Introductory Biology I Laboratory Credit Hours: 1
- BIOL 123 - Introductory Biology II Credit Hours: 3
- BIOL 124 - Introductory Biology II Laboratory Credit Hours: 1
- CHEM 133 - General Chemistry I Credit Hours: 3
- CHEM 131 - General Chemistry Laboratory I Credit Hours: 1
- CHEM 134 - General Chemistry II Credit Hours: 3
- CHEM 132 - General Chemistry Laboratory II Credit Hours: 1
- CS 332 - Design and Analysis of Algorithms Credit Hours: 3
- CS 365 - Theory of Computation Credit Hours: 3
- CS 442 - Numerical Analysis Credit Hours: 3
- PHYS 330 - Modern Physics Credit Hours: 3
- PHYS 331 - Modern Physics Laboratory Credit Hours: 1
- Modern foreign language

Total: 18-20 Credit Hours

Hopefully, I've explained what we're thinking over here.

Please let me know if you have questions or concerns.

David

Dr. David Hendricks

Associate Professor and Chair

Department of Mathematics

Abilene Christian University

173 Onstead Science Center | ACU Box 28012 | Abilene, Texas 79699-8012

325-674-2007

On Tue, Jan 7, 2020 at 2:59 PM Jessica Smith <jes98k@acu.edu> wrote:

Hi, David —

I believe you heard from Rebecca Hunter late in the fall semester about a coming change to the general biology courses. The Department of Biology is proposing to reorder and renumber these courses.

Because these courses are so widely used in programs and prerequisites, we are planning to administratively update the affected degree plans and course prerequisites rather than ask each department to apply for its own curriculum changes.

I have attached the collateral changes to your 1 affected degree program. The change was very straightforward for your department, and I don't believe there's anything you'll want to reconsider.

Would you please reply all to let me know by **Jan. 17** if you affirm the effect on your programs or if we need to discuss anything further? Thanks! -j

Jessica Smith, Ph.D.

Assistant Provost for Curriculum and Assessment

Abilene Christian University

325-674-2024



Jessica Smith <jes98k@acu.edu>

general biology changes and Teacher Ed

Dana Pemberton <dlp94a@acu.edu>
To: Jessica Smith <jes98k@acu.edu>
Cc: Rebecca Hunter <rlb97a@acu.edu>

Tue, Jan 7, 2020 at 4:41 PM

I affirm the changes for our degree plan.

Dana

Dana Kennamer Pemberton, Ph.D.
Associate Dean, College of Education and Human Services
Professor and Chair of Teacher Education
Abilene Christian University
Abilene, TX 79699
(325) 674-2112

On Tue, Jan 7, 2020 at 2:59 PM Jessica Smith <jes98k@acu.edu> wrote:

Hi, Dana —

I believe you heard from Rebecca Hunter late in the fall semester about a coming change to the general biology courses. The Department of Biology is proposing to reorder and renumber these courses.

Because these courses are so widely used in programs and prerequisites, we are planning to administratively update the affected degree plans and course prerequisites rather than ask each department to apply for its own curriculum changes.

I have attached the collateral changes to your 1 affected degree programs. The change was very straightforward for the middle school education - science program, and I don't believe there's anything you'll want to reconsider.

Would you please reply all to let me know by **Jan. 17** if you affirm the effect on your program or if we need to discuss anything further? Thanks! -j

Jessica Smith, Ph.D.
Assistant Provost for Curriculum and Assessment
Abilene Christian University
325-674-2024

Key to changes

Removed sections

Added sections

BIOL 380 Mammalogy Catalog Changes:

- Class that has BIOL 380 as a prerequisite:

ENVR 458 - Wildlife Management Techniques

Lecture Hours: 2

Lab Hours: 3

Credit Hours: 3

Terms Offered: Spring

The purpose of this course is to describe major approaches to problem solving, suggest ways of implementing these approaches, and to improve the management of the wildlife resource through more rapid development and improved use of techniques. Laboratory graded and credited with course. Designed for environmental science majors pursuing the Wildlife and Natural Resource Management track, and biology majors. Prerequisite: ENVR 455 or BIOL 380 BIOL 408. Course fee.

- Tracks that have BIOL 380 listed:
 - Environmental Science, Outdoor Studies, BS (ENVR-ENVO)
 - Environmental Science, Wildlife and Natural Resource Management, BS (ENVR-ENVW)

BIOL 221, BIOL 222, BIOL 223, BIOL 224

- Tracks that have these above courses listed:
 - Biochemistry, Biomedical Science, BS (BCH-BCBS) I know that Chemistry & Biochemistry have just changed part of this track and are sending it through council.
 - Environmental Science, Wildlife and Natural Resource Management, BS (ENVR-ENVW)
- These courses should be removed from the catalog

BIOL 345

- ENVR 345 should also be split up. Can ENVR 346 be used for the lab?
- Tracks that have BIOL 345 (ENVR 345) listed and should have BIOL 346 (ENVR 346) listed as well
 - Animal Science, Livestock Management, BS (ANSC-LM)
 - Environmental Science, Field Technology, BS (ENVR-ENVF)

- Environmental Science, Outdoor Studies, BS (ENVR-ENVO)
 - Environmental Science, Politics and Public Policy, BS (ENVR-ENVP)
 - Environmental Science, Wildlife and Natural Resource Management, BS (ENVR-ENVW)
-