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## Curriculum Proposal

### BIOL 19-20 #9

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Note: There are no changes to BIOL 5260

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BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: Business, Mathematics and Science
Department: Biology
Proposer: Mark Wallert
Proposer’s position: Professor and Department Chair
Describe the modification(s) you propose, and how it (/they) will work to students’ advantage. (This description and explanation will be included in Curriculum Report packets forwarded to the Faculty Senate.):

Change the prerequisites for Biology 3260: Human Physiology to allow a greater range of students from outside the Biology Department to enroll in the course to complete a course required for graduate and professional programs.

Note: There are no changes to BIOL 5260

Modifications proposed (specify number of each):
_X_ Course Modification(s) (form 2)
_____New Course(s) (form 3)
_____Course Drop(s) (form 4)
_____Program Modification(s) (form 5)
_____New Program(s) (form 6)
_____Program Drop(s) (form 7)
The modifications affect (check):
____ Liberal Education
_X__Undergraduate Curriculum
_____Graduate Curriculum
_____Teacher Licensure Program(s)
BSU Curriculum Forms

Form 2
Updated 9.19.15

Course Modification Form

Current Course Number(s):
   Undergraduate: **BIOL 3260**
   Graduate: BIOL 5260
Proposed Course Number(s), if different:
   Undergraduate:
   Graduate:

Current Course Title: **Human Physiology**
Proposed Course Title, if different:

Current Course Description: **Physiological and pathophysiological principles and control mechanisms of organ systems within humans. Lecture and laboratory.**
Prerequisites: BIOL 1211, CHEM 3312.

Proposed Course Description, if different:
*Change to undergraduate prerequisites only:*
Physiological and pathophysiological principles and control mechanisms of organ systems within humans. Lecture and laboratory. Prerequisites: BIOL 1211 and (CHEM 1111 or CHEM 2211) or consent of instructor.

Current Credits: **4 credits**
Proposed Credits, if different:

Current Prerequisite(s):
   Undergraduate: **BIOL 1211, CHEM 3312.**
   Graduate: none
Proposed Prerequisite(s), if different:
   Undergraduate: **BIOL 1211 and CHEM 1111 or CHEM 2211; or consent of instructor**
   Graduate: none – there are no changes

1) Reason(s) for change(s):

**CHEM 3312 is not a common prerequisite for Human Physiology and having this prerequisite is limiting access for students to a course that is frequently required for graduate programs in the health professions. The change makes it easier for students from outside the Biology Department to register for BIOL 3260: Human Physiology.**
2) May this modified course replace the current course for students remaining in the old curriculum? **Yes** No **If not, please drop the current course and submit a new course form for the modification.**

3) Do these modifications change any of the following? **For all Yes answers, please provide updated information on the next page.**
   - Student Learning Outcomes: Yes ____ No ____ **X**
   - Major Content Areas: Yes ____ No ____ **X**
   - Projected Maximum Class Size (Cap): Yes ____ No ____ **X**

4) Current Course fee(s) per student: **$15 / credit**
   - for:
   - Proposed Course fee(s) per student, if different: $
   - for:

5) Service Areas:
   - This course is a requirement or an elective in the programs/areas listed below. To locate where this course appears please search the online catalog, as follows:
     - a) go to [http://www.bemidjistate.edu/academics/catalog/](http://www.bemidjistate.edu/academics/catalog/) and choose the most recent catalog(s),
     - b) click on “Areas of Study, and Course Descriptions,”
     - c) click on “PDF of Entire Catalog” in upper right,
     - d) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:
   - Biochemistry, Cellular and Molecular Biology, B.S. major Cellular and Molecular emphasis – (ok prereq’s in major)
   - Biochemistry, Cellular and Molecular Biology, B.S. major Biochemistry emphasis – (ok prereq’s in major)
   - Biology, B.A. major (CHEM not in program – ok with consent)
   - Biology, B.S. major Medical Science emphasis – (ok prereq’s in major)
   - Biology, B.S. major Cellular and Molecular emphasis – (ok prereq’s in major)
   - Medical Laboratory Science B.S. major (3+1 option) – (ok prereq’s in major)
   - Medical Laboratory Science, B.S. major (4+1 option) – (ok prereq’s in major)
   - Biology minor (CHEM not in program – ok with consent)

   Teacher Licensure programs: None

   Liberal Education: None

   Prerequisites for:
   - BIOL 4270
The above “service area” programs/departments were notified of this modification on 2.26.19 (date) by ____________________ (mail, email, or phone).

Please check one of the items below:

_____ No comments were received from other programs or departments within one week of the notification.

___X___ Comments were received within one week of the notification, and are attached.
BSU Curriculum Forms

Form 8
Updated: 09.18.15

Signatures

Mark Wallert / Professor / 6.28.19
Proposer / Title / Date

Mark Wallert / Biology / 6.28.19
Chair or Director / Department or Program / Date
Note: "All departmental recommendations [on curriculum] must be reviewed and approved by the department's faculty." -- IFO/MnSCU Master Agreement 2009-2011, 20.A.3 (p. 80).

At this point, packet goes to Records Office/Curriculum Coordinator to be logged in to the Curriculum Proposal Progress Grid.

Marilyn Yoder / Business, Mathematics and Sciences / 7.12.19
Dean / College / Date

Note: If proposal is sent back to the Proposer, please notify the Curriculum Coordinator. If approved, packet goes to Academic Affairs Office.
My apologies for not getting back to you sooner. The Biology Department support the curriculum changes outline below. You are correct about the conversation related to organic chemistry and BIOL 3260. I will put in a curriculum change to drop that requirement.

Thank you

Mark

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From: Kippenhan, Christel C
Sent: Friday, February 15, 2019 11:11 AM
To: Wallert, Mark A <Mark.Wallert@bemidjistate.edu>
Cc: White, Jim A <Jim.White@bemidjistate.edu>
Subject: Proposed changes to HPSH curriculum affecting Biology

Hi Mark –

I'm working on modifications to the major programs offered through the Department of Human Performance, Sport and Health. This process requires me to notify you, the chair of the Department of Biology, of the following planned modification. Should you no longer be the chair of the Department of Biology, please forward this email to the correct person.

(1) **PHED 3200 Introductions to Sports Biomechanics, and PHED 3300 Physiology of Exercise and Nutrition**
   a. removing BIOL 2100 as a prerequisite and adding BIOL 1111 (or BIOL 3250) as a prerequisite.

(2) **Community Health (major), Health Education (major), Physical Education (major)**
   a. Dropping BIOL 2110 Human Anatomy and Physiology from these majors and adding BIOL 1111 Anatomy and Physiology for Allied Health I

(3) **Community Health (major), Health Education (major)**
   a. Giving students the option to satisfy the Biology requirement by either taking BIOL 1110 Human Biology or
BIOL 1211 Introductory Biology
This change was introduced to mirror the introductory level Biology requirements for Physical Education. This would eliminate potential paperwork for students double majoring in Health and Physical Education, or Community Health and Exercise Science, and for students moving from Exercise Science to Community Health or Health Education.

(4) **Exercise Science (major)**
a. Dropping BIOL 2110 Human Anatomy and Physiology from the required courses for this major and adding BIOL 3250 Human Anatomy to the required courses.
b. Most of the graduate/professional programs our Exercise Science students apply to require a full sequence of Anatomy and Physiology, but only about 50% still require a Medical Terminology course. Therefore, we are planning on
   i. Moving BIOL 1300 Medical Terminology from the required courses for the Medical Fitness emphasis to the elective class offering.
   ii. Adding BIOL 3260 Human Physiology as a required course for the Medical Fitness emphasis. However, here we are running in some hidden prerequisite issues. See BIOL 3260 Problem below

**BIOL 3260 Problem**
The current catalog description of BIOL 3260 lists CHEM 3312 Organic Chemistry II as a prerequisite:

*BIOL 3260 Human Physiology (4 credits): Physiological and pathophysiological principles and control mechanisms of organ systems within humans. Lecture and laboratory. Prerequisites: BIOL 1211, CHEM 3312.*

If I remember correctly, in a conversation with Dr. Jim White and me, you mentioned that this was an oversight during the Anatomy and Physiology course modifications, and that CHEM 3312 is no longer required as a prerequisite. (Especially, because the BIOL 3250 and 3260 sequence was designed with the pre-professional students, like PT and OT, in mind and these programs generally do not require an Organic Chemistry sequence.) Do I remember this conversation correctly?

However, as the course description currently stands, we cannot add it to our curriculum without also requiring the Organic Chemistry sequence, which does not make any sense for the nature of our program.

We are therefore wondering if Biology is planning to make adjustments to BIOL 3260, by either dropping the CHEM 3312 from the prerequisite listing or by adding ‘consent of instructor’ to the prerequisite listing, in the near future.

Without this change, we will not be able to make use of the BIOL 3250 and BIOL 3260 sequence in our exercise science curriculum.
Please let me know what your thoughts are on this issue.
I attached the curriculum proposal to this email. All proposed changes affecting the Biology department are highlighted in blue.
Please provide any comments or concerns about these changes by 2/22/2019.
Best wishes,
Christel

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