## Curriculum Proposal

**BIOL 19-20 #4**

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BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: College of Business, Mathematics & Science
Department: Biology
Proposer: Andrew Arsham
Proposer’s position: Assistant Professor

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.):

This modification simplifies the Bachelor of Arts in Biology by eliminating the Required Biology Electives categories for Organismal and Suborganismal Biology.

Modifications proposed (specify number of each):

___ 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 5

Program Modification Form

Program to be modified: Bachelor of Arts in Biology

List all proposed change(s):

1. Elimination of “II REQUIRED BIOLOGY ELECTIVES” and associate subcategories “SUBORGANISMAL” and “ORGANISMAL”

Reason(s) for the change(s):
1. Simplification of required electives to support student completion

Note: In order to avoid hidden prerequisites, if a course is being dropped from this program (but not from the entire curriculum), please check for which remaining courses may include this dropped course as a prerequisite. Course prerequisites may be found in the online catalog (http://www.bemidjistate.edu/academics/catalog/). Remedies for hidden prerequisites may be found under Curriculum Forms at (http://www.bemidjistate.edu/faculty_staff/faculty_association/forms/).

Note: If a course from another department/program was either added to or dropped from this program, please notify the chair/coordinator of that course's department/program and indicate the following:
The course’s home department/program was notified of the addition or dropping of their course(s) on ________ (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.

______ Comments were received within one week of the notification, and are attached.

Note: If this is a joint program, the signatures of both department chairs (and both deans, if different colleges) must be provided.

Alert: Attach a copy of the current program showing the marked changes.
Please copy the current program from the online catalog (http://www.bemidjistate.edu/academics/catalog/) and paste it into Word. Then use either the Track Changes feature under Tools, or the underline and strikethrough Font feature under Format. (Please note that the
Track Changes feature may be easily switched on and off by holding down the Ctrl+Shift+E keys.)

Existing major with marked changes

**Biology, B.A. major**

Required Credits: 40
Required GPA: 2.25

I REQUIRED BIOLOGY CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL 1211 *Introductory Biology I* (4 credits)
- BIOL 1212 *Introductory Biology II* (4 credits)
- BIOL 2360 *Genetics* (4 credits)
- BIOL 2610 *General Ecology* (3 credits)

II REQUIRED BIOLOGY ELECTIVES

**SUBORGANISMAL**

SELECT 1 OF THE FOLLOWING COURSES:

- BIOL 2750 *Medical Microbiology* (3 credits)
- BIOL 3260 *Human Physiology* (4 credits)
- BIOL 3300 *Introduction to Hematology* (4 credits)
- BIOL 3380 *Molecular Genetics* (3 credits)
- BIOL 3580 *Immunology* (3 credits)
- BIOL 3590 *Cell Biology* (3 credits)
- BIOL 3720 *Plant Form and Function* (4 credits)
- BIOL 4270 *Histology* (4 credits)
- BIOL 4360 *Developmental and Tumor Biology* (3 credits)

**ORGANISMAL**

SELECT 1 OF THE FOLLOWING COURSES:

- BIOL 3110 *Human Anatomy and Physiology* (5 credits)
- BIOL 3250 *Human Anatomy* (4 credits)
- BIOL 3310 *Entomology* (4 credits)
- BIOL 3710 *Microbiology* (4 credits)
- BIOL 3730 *Plant Diversity* (4 credits)
- BIOL 3830 *Aquatic Plants and Algae* (4 credits)
- BIOL 4200 *Freshwater Invertebrates* (4 credits)
II REQUIRED BIOLOGY ELECTIVES

SELECT 16-19 25 SEMESTER CREDIT ELECTIVES FROM BIOLOGY COURSES (EXCEPT 1000-LEVEL BIOL CLASSES AND BIOL 2925) TO ACHIEVE A MINIMUM OF 40 SEMESTER CREDITS IN BIOL COURSES. THESE ELECTIVES CAN ALSO INCLUDE ONE OF THE FOLLOWING OPTIONS FROM OTHER DEPARTMENTS:

a. CHEM 4411 Biochemistry I (3 credits)
b. CHEM 4411 and CHEM 4471 Biochemistry Laboratory I (1 credit)
c. ENVR 4400 Environmental Microbiology (3 credits)
d. ENVR 4500 Environmental Toxicology (4 credits)

SUGGESTED SEMESTER SCHEDULE FOR BIOLOGY MAJOR, B.A.

The following is a list of required Biology Major, B.A. courses arranged by year. This schedule is intended to assist students in planning their courses. There is some flexibility in this schedule, but graduation within four years will require close adherence to the specified sequence of courses. Always consult your Biology academic advisor as to the proper courses and sequence of courses needed for graduation.

Freshman

- BIOL 1211 Introductory Biology I (4 credits)
- BIOL 1212 Introductory Biology II (4 credits)
- Liberal Education requirements
- Consult with your Biology academic advisor

Sophomore

- BIOL 2360 Genetics (4 credits)
- BIOL 2610 General Ecology (3 credits)
- Writing course
- Biology degree requirements
- Liberal Education requirements
- Consult with your Biology academic advisor

Junior

- Biology degree requirements
- Liberal Education requirements
- Consult with your Biology academic advisor
Senior

- Complete Biology degree requirements
- Complete Liberal Education requirements
- Consult with your Biology academic advisor

Proposed major

Biology, B.A. major

Required Credits: 40
Required GPA: 2.25

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COMPLETE THE FOLLOWING COURSES:

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- Writing course
- Biology degree requirements
- Liberal Education requirements
- Consult with your Biology academic advisor

Junior

- Biology degree requirements
- Liberal Education requirements
- Consult with your Biology academic advisor

Senior

- Complete Biology degree requirements
- Complete Liberal Education requirements
- Consult with your Biology academic advisor
BSU Curriculum Forms
Form 8
Updated: 09.18.15

Signatures

___ Andrew Arsham / Assistant Professor / 5.9.19 ____________________________
Proposer / Title / Date

___ Michael Hamann (for Mark Wallert) / Biology / 5.15.19 __________________
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

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

___ Bonnie Higgins / Business, Mathematics and Sciences / 6.3.19 ______________
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.