## Curriculum Proposal

**BIOL 19-20 #8**

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### Course Modification

1.2 BIOL 1211 Introductory Biology I (4 credits) to BIOL 1400 Cellular Principles (4 credits)

**Liberal Education Goal Area 3**

1.6 BIOL 1212 Introductory Biology II (4 credits) to BIOL 1500 Diversity of Life (4 credits); prerequisite change

**Liberal Education Goal Area 3**

1.10 Signatures
BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: Business, Mathematics, and Sciences
Department: Biology
Proposer: Andrew W. Hafs
Proposer’s position: Associate Professor of Biology
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 name of BIOL 1211 – Introductory Biology I to BIOL 1400 – Cellular Principles

Change the name of BIOL 1212 – Introductory Biology II to BIOL 1500 – Diversity of Life.

Remove the prerequisites from BIOL 1212.

The name changes are more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.

Modifications proposed (specify number of each):
- 2 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
- 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 1211
  Graduate:
Proposed Course Number(s), if different:
  Undergraduate: BIOL 1400
  Graduate:

Current Course Title: Introductory Biology I
Proposed Course Title, if different: Cellular Principles

Current Course Description:
An introduction to the structure and function of living systems, with an emphasis on basic mechanisms and concepts in biochemistry and in cellular and molecular biology. Intended for biology majors and minors, preprofessional students, and open to any student wishing to fulfill their Liberal Education requirement. Lecture and laboratory. BIOL 1211 and BIOL 1212 must be taken in sequence. Liberal Education Goal Area 3 (LC).

Proposed Course Description, if different:
An introduction to the structure and function of living systems, with an emphasis on basic mechanisms and concepts in biochemistry and in cellular and molecular biology. Intended for biology majors and minors, preprofessional students, and open to any student wishing to fulfill their Liberal Education requirement. Lecture and laboratory. Liberal Education Goal Area 3 (LC)

Current Credits: 4
Proposed Credits, if different:

Current Prerequisite(s): None
  Undergraduate:
  Graduate:
Proposed Prerequisite(s), if different:
  Undergraduate:
  Graduate:

1) Reason(s) for change(s): The name change is more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.
2) May this modified course replace the current course for students remaining in the old curriculum? Yes _X____ 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
   - Major Content Areas
   - Projected Maximum Class Size (Cap)

4) Current Course fee(s) per student: $ 15
   for: Differential tuition required for all BIOL courses
   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/ 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:
   Aquatic Biology, B.S. Wetlands Ecology emphasis
   Aquatic Biology, B.S. Fisheries Biology emphasis
   Aquatic Biology, B.S. Aquatic Systems emphasis
   Biochemistry, Cellular and Molecular Biology, B.S. Cellular and Molecular emphasis
   Biochemistry, Cellular and Molecular Biology, B.S. Biochemistry emphasis
   Biology, B.A.
   Biology, B.S. Medical Sciences emphasis
   Biology, B.S.
   Biology, B.S. Cellular and Molecular emphasis
   Chemistry, B.S. Criminalistics emphasis
   Chemistry, B.S. Biochemistry/Biotechnology emphasis
   Environmental Studies, B.S. Environmental Policy and Planning emphasis
   Environmental Studies, B.S. Geohydrology emphasis
   Environmental Studies, B.S. Industrial Ecology emphasis
   Environmental Studies, B.S. Environmental Health and Toxicology emphasis
   Environmental Studies, B.S. Ecosystem emphasis
   Environmental Studies minor
   Exercise Science, B.S. Fitness Leadership and Promotion emphasis
   Exercise Science, B.S. Medical Fitness emphasis
Human Performance minor
Medical Laboratory Science, B.S. (3+1 option)
Medical Laboratory Science, B.S. (4+1 option)
Science Education, B.S. Life Science Specialty (Teacher Licensure)
Wildlife Biology, B.S.
Biology minor
Wetlands Ecology minor
Pre-Chiropractic
Pre-Dentistry
Pre-Medicine
Pre-Optometry
Pre-Osteopathic Medicine
Pre-Physical Therapy
Pre-Pharmacy
Pre-Physician Assistant
Pre-Podiatric Medicine
Pre-Veterinary Medicine
Psychology, B.A.
Psychology, B.S.

Teacher Licensure programs:
Elementary Education B.S. Science Endorsement (Teacher Licensure)
Physical Education B.S. (Teacher Licensure)
Science Education B.S. Physics Specialty (Teacher Licensure)
Science Education B.S. Life Science Specialty (Teacher Licensure)
Science Education B.S. Earth and Space Science Specialty (Teacher Licensure)
Science Education B.S. Chemistry Specialty (Teacher Licensure)

Biology
Chemistry
Earth Science
Physical Education
Physics
Physical Education
Professional Education
Science Education

Liberal Education:
Goal areas 2 and 3

Prerequisite for:
BIOL 1212 Introductory Biology II (n/a; course will change/remove prereq)
BIOL 2110 Human Anatomy & Physiology
BIOL 3260 Genetics
BIOL 2610 General Ecology
BIOL 2750 Medical Microbiology
BIOL 3074 Molecular Techniques
BIOL 3120 Soils
BIOL 3150 Animal Behavior
BIOL 3170 Dendrology
BIOL 3250 Human Anatomy
BIOL 3260 Human Physiology
BIOL 3300 Introduction to Hematology
BIOL 3310 Entomology
BIOL 3361 Limnology
BIOL 3362 Streams and Rivers
BIOL 3380 Molecular Genetics
BIOL 3610 Principles of Wildlife Management
BIOL 3630 Conservation Biology
BIOL 3720 Plant Form and Function
BIOL 3730 Plant Diversity
BIOL 3830 Aquatic Plants and Algae
BIOL 3840 Wetlands Ecology
BIOL 3850 Marine Biology
BIOL 4030 Wetland Delineation and Classification
BIOL 4200 Freshwater Invertebrates
BIOL 4210 Parasitology
BIOL 4270 Histology
BIOL 4360 Developmental and Tumor Biology
BIOL 4510 Ornithology
BIOL 4520 Mammalogy
BIOL 4534 Ichthyology
BIOL 4545 Fisheries Management
BCMB 3074 Molecular Techniques
ENVR 3840 Wetland Ecology
GEOL 3120 Soils

The above “service area” programs/departments were notified of this modification on __19 Apr 2019_____ (date) by _____email_____________ (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 2
Updated 9.19.15

Course Modification Form

Current Course Number(s):
  Undergraduate: BIOL 1212
  Graduate:
Proposed Course Number(s), if different:
  Undergraduate: BIOL 1500
  Graduate:

Current Course Title: Introductory Biology II
Proposed Course Title, if different: Diversity of Life

Current Course Description:
An introduction to living organisms, with an emphasis on the basic mechanisms and concepts in organismal biology, ecology, and evolutionary biology. Topics include taxonomy and classification of the major groups of plants and animals, structure and function, development, and behavior. Intended for biology majors and minors, preprofessional students, and open to any student wishing to fulfill their Liberal Education requirement. Lecture and laboratory. Prerequisite: BIOL 1211 or consent of instructor. Liberal Education Goal Area 3 (LC).

Proposed Course Description, if different:
An introduction to living organisms, with an emphasis on the basic mechanisms and concepts in organismal biology, ecology, and evolutionary biology. Topics include taxonomy and classification of the major groups of plants and animals, structure and function, development, and behavior. Intended for biology majors and minors, preprofessional students, and open to any student wishing to fulfill their Liberal Education requirement. Liberal Education Goal Area 3 (LC).

Current Credits: 4
Proposed Credits, if different:

Current Prerequisite(s):
  Undergraduate: BIOL 1211 or consent of instructor
  Graduate:
Proposed Prerequisite(s), if different:
  Undergraduate: None
  Graduate:

1) Reason(s) for change(s): The name change is more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.
2) May this modified course replace the current course for students remaining in the old curriculum? Yes ___X___ 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 for: Differential tuition required for all BIOL courses
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/ 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:
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Aquatic Biology, B.S. Fisheries Biology emphasis
Aquatic Biology, B.S. Aquatic Systems emphasis
Biology, B.A.
Biology, B.S. Medical Sciences emphasis
Biology, B.S.
Biology, B.S. Cellular and Molecular emphasis
Medical Laboratory Science B.S. (3+1 option)
Medical Laboratory Science B.S. (4+1 option)
Wildlife Biology B.S.
Biology minor
Wetlands Ecology minor
Chemistry, B.S. Criminalistics emphasis
Chemistry, B.S. Biochemistry/Biotechnology emphasis
Environmental Studies, B.S. Environmental Health and Toxicology emphasis
Environmental Studies, B.S. Ecosystem emphasis
Environmental Studies minor
Exercise Science, B.S. Fitness Leadership and Promotion emphasis
Exercise Science, B.S. Medical Fitness emphasis
Teacher Licensure programs:
Science Education, B.S. Life Science Specialty (Teacher Licensure)
Science Education, B.S. Chemistry Specialty (Teacher Licensure)
Science Education, B.S. Earth and Space Science Specialty (Teacher Licensure)
Science Education, B.S. Physics Specialty (Teacher Licensure)
Elementary Education, B.S. Science Endorsement (Teacher Licensure)

Liberal Education:
Goal areas 2 and 3

Prerequisites for:
BIOL 1211 (will be N/A with proposal)
BIOL 3120 Soils
BIOL 3150 Animal Behavior
BIOL 3310 Entomology
BIOL 3361 Limnology
BIOL 3362 Streams and Rivers
BIOL 3610 Principles of Wildlife Management
BIOL 3630 Conservation Biology
BIOL 3730 Plant Diversity
BIOL 3830 Aquatic Plants and Algae
BIOL 4200 Freshwater Invertebrates
BIOL 4270 Histology
BIOL 4510 Ornithology
BIOL 4520 Mammalogy
BIOL 4534 Ichthyology
BIOL 4545 Fisheries Management
ENVR 3840 Wetlands Ecology
ENVR 4200 Wastewater Treatment
ENVR 4500 Environmental Toxicology
GEOG 3630 Conservation Biology
GEOL 3120 Soils

The above “service area” programs/departments were notified of this modification on ___19 Apr 2019____ (date) by ___email__________________ (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

Andrew Hafs / Associate Professor / 4.18.19
Proposer / Title / Date

Mark Wallert / Biology / 5.8.19
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.
From: Hafs, Andrew W
To: Marek, Keith A
Subject: RE: Proposed name changes to Introductory Biology I and Introductory Biology II
Date: Friday, April 19, 2019 10:41:00 AM
Great, thanks!

From: Marek, Keith A <KMarek@bemidjistate.edu>
Sent: Friday, April 19, 2019 9:57 AM
To: Hafs, Andrew W <Andrew.Hafs@bemidjistate.edu>
Subject: RE: Proposed name changes to Introductory Biology I and Introductory Biology II
Andy,
These changes are fine with me.
KAM

From: Hafs, Andrew W <Andrew.Hafs@bemidjistate.edu>
Sent: Friday, April 19, 2019 8:52 AM
To: Wallert, Mark A <Mark.Wallert@bemidjistate.edu>; Marek, Keith A <KMarek@bemidjistate.edu>; Ueland, Jeffrey S <Jeffrey.Ueland@bemidjistate.edu>; White, Jim A <Jim.White@bemidjistate.edu>; Truedson, John R <John.Truedson@bemidjistate.edu>; Wahl, Janine S <Janine.Wahl@bemidjistate.edu>
Subject: Proposed name changes to Introductory Biology I and Introductory Biology II
The Biology Department is proposing to make the following changes to our curriculum:
Change the name of BIOL 1211 – Introductory Biology I to BIOL 1400 – Cellular Principles
Change the name of BIOL 1212 – Introductory Biology II to BIOL 1500 – Diversity of Life.
Remove the prerequisites from BIOL 1212.

Justification:
The name changes are more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.
Please let me know if you have any concerns regarding the proposed changes within one week of receiving this email.
Thanks,
Andy
Andrew W. Hafs, Ph.D.
Associate Professor of Biology
Aquatic Biology Program
Sattgast 218A
Bemidji State University
Bemidji, MN 56601
ahafs@bemidjistate.edu
(218) 755-2789

From: Wahl, Janine S
To: Hafs, Andrew W
Thank you Andy for letting us know. We will make the changes in our state licensing system.
Thank you!
Janine S. Wahl, Ed.D.
Department Chair
Professional Education Department
Bemidji State University
phone: 218-755-3772

From: Hafs, Andrew W
Sent: Friday, April 19, 2019 8:52 AM
To: Wallert, Mark A; Marek, Keith A; Ueland, Jeffrey S; White, Jim A; Truedson, John R; Wahl, Janine S

Subject: Proposed name changes to Introductory Biology I and Introductory Biology II
The Biology Department is proposing to make the following changes to our curriculum:
Change the name of BIOL 1211 – Introductory Biology I to BIOL 1400 – Cellular Principles
Change the name of BIOL 1212 – Introductory Biology II to BIOL 1500 – Diversity of Life.
Remove the prerequisites from BIOL 1212.

Justification:
The name changes are more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.

Please let me know if you have any concerns regarding the proposed changes within one week of receiving this email.

Thanks,
Andy
Andrew W. Hafs, Ph.D.
Associate Professor of Biology
Aquatic Biology Program
Sattgast 218A
Bemidji State University
Bemidji, MN 56601
ahafs@bemidjistate.edu
(218) 755-2789
The Biology Department is proposing to make the following changes to our curriculum:

Change the name of BIOL 1211 – Introductory Biology I to BIOL 1400 – Cellular Principles

Change the name of BIOL 1212 – Introductory Biology II to BIOL 1500 – Diversity of Life.

Remove the prerequisites from BIOL 1212.

Justification:
The name changes are more descriptive. Additionally by changing the name and course number of both BIOL 1211 and BIOL 1212 they will no longer need to be taken in sequence which provides all of our students more flexibility.

Please let me know if you have any concerns regarding the proposed changes.

Thanks,

Andy