# Curriculum Proposal

**BIOL 15-16 #4**

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### Course Modification

1. **ENVR 6300 Advanced Project in Literature Review (2 credits)** to BIOL/ENVR 6300; prerequisite change
2. **ENVR 6400 Advanced Project in Methodology (2 credits)** to BIOL/ENVR 6400; prerequisite change
3. **ENVR 6890 Grants and Contracts (3 credits)** to BIOL/ENVR 6890; prerequisite change
4. **SCI 6350 Computer Applications in Statistics (3 credits)** to BIOL/ENVR 6350
5. **BIOL 6894 Advanced Graduate Laboratory Projects I (3 credits)** to Advanced Graduate Laboratory Projects (2 credits)
6. **BIOL 6896 Advanced Graduate Field Projects I (3 credits)** to Advanced Graduate Field Projects (2 credits)

### Course Drop

1. **BIOL 6020 Biotechnology for Teachers (2 credits)**
2. **BIOL 6030 Field Biology for Teachers (2 credits)**
3. **BIOL 6040 Anatomy for Teachers (2 credits)**
4. **BIOL 6050 Physiology for Teachers (2 credits)**
5. **BIOL 6070 Genetics for Teachers (2 credits)**
6. **BIOL 6080 Ecology for Teachers (2 credits)**
7. **BIOL 6090 Evolution for Teachers (2 credits)**
8. **BIOL 6895 Advanced Graduate Laboratory Projects II**
9. **BIOL 6897 Advanced Graduate Field Projects II**
BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: Arts and Sciences
Department: Biology
Proposer: Elizabeth Rave
Proposer’s position: Professor & 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.):

The Departments of Biology and Environmental Studies will have similar core requirements for our masters students, with faculty from both departments sharing the teaching load.

- Change ENVR 6300 to BIOL/ENVR 6300 and eliminate the prerequisites
- Change ENVR 6400 to BIOL/ENVR 6400 and eliminate the prerequisites
- Change ENVR 6890 to BIOL/ENVR 6890 and eliminate the prerequisites
- Change SCI 6350 to BIOL/ENVR 6350
- Modify the Biology M.S. degree to reflect these changes

Biology will modify two existing courses to better reflect the subject matter and drop nine courses that are no longer taught.

- Change the title and number of credits of BIOL 6894 and BIOL 6896
- Drop BIOL 6020, BIOL 6030, BIOL 6040, BIOL 6050, BIOL 6070, BIOL 6080, BIOL 6090, BIOL 6895, and BIOL 6897.
- Modify the Biology M.S. degree to reflect these changes

Modifications proposed (specify number of each):

- 6 Course Modification(s) (form 2)
- 0 New Course(s) (form 3)
- 9 Course Drop(s) (form 4)
- 1 Program Modification(s) (form 5)
- 0 New Program(s) (form 6)
- 0 Program Drop(s) (form 7)

The modifications affect (check):

- Liberal Education
- Undergraduate Curriculum
- [X] Graduate Curriculum
- Teacher Licensure Program(s)
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
   Undergraduate:  
   Graduate: **ENVR 6300**
Proposed Course Number(s), if different:
   Undergraduate:  
   Graduate: **BIOL/ENVR 6300**

Current Course Title: Advanced Project in Literature Review
Proposed Course Title, if different:

Current Course Description: A comprehensive literature search of a selected research project as
it applies to the natural sciences, including the trends in research perspectives over time, finding
the historical roots of current lines of research, and identifying obvious gaps in the research on
the selected project, and ending with specific research questions, purposes, or hypotheses.

Proposed Course Description, if different:

Current Credits: 2
Proposed Credits, if different:

Current Prerequisite(s): **ENVR 6010 or consent of instructor.**

Proposed Prerequisite(s), if different: **None**

1) Reason(s) for change(s): **Biology and Environmental Studies are collaborating on the required core for our graduate students. Faculty from both departments will be teaching this course, so we are cross listing it as well as eliminating the prerequisites.**

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: $ 0

for:
Proposed Course fee(s) per student, if different: $15
for: Students taking this as a BIOL course will be charged the Biology department’s standard $15 per credit differential tuition fee.

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: Environmental Studies, M.S.

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/9/15__ (date) by _phone and email________________ (mail, email, or phone).

Please check one of the items below:

__X___ 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.
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
Undergraduate:  
Graduate: **ENVR 6400**

Proposed Course Number(s), if different:
Undergraduate:  
Graduate: **BIOL/ENVR 6400**

Current Course Title: Advanced Project in Methodology
Proposed Course Title, if different:

Current Course Description: Advanced learning in research methodology as it applies to qualitative and quantitative research, sampling and data collection methods, experimental vs. non-experimental procedures, and various statistical methods for data analysis.

Proposed Course Description, if different:

Current Credits: 2
Proposed Credits, if different:

Current Prerequisite(s): **ENVR 6010 or consent of instructor.**

Proposed Prerequisite(s), if different: **None**

1) Reason(s) for change(s): **Biology and Environmental Studies are collaborating on the required core for our graduate students. Faculty from both departments will be teaching this course, so we are cross listing it as well as eliminating the prerequisites.**

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: $ 0 for:
Proposed Course fee(s) per student, if different: $15
for: **Students taking this as a BIOL course will be charged the Biology department’s standard $15 per credit differential tuition fee.**

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: Environmental Studies, M.S.

   Teacher Licensure programs:

   Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/9/15_ (date) by _phone and email_ (mail, email, or phone).

Please check one of the items below:

__X__ 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.
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
  Undergraduate:
  Graduate: **ENVR 6890**
Proposed Course Number(s), if different:
  Undergraduate:
  Graduate: **BIOL/ENVR 6890**

Current Course Title: Grants and Contracts
Proposed Course Title, if different:

Current Course Description: A practical investigation of grantsmanship with emphases on funding sources, creative writing, effective conduct of project and reporting results. Gives students first-hand practice in all phases of grantsmanship. Review and critique both qualitative and quantitative model proposals.

Proposed Course Description, if different:

Current Credits: 3
Proposed Credits, if different:

Current Prerequisite(s): **ENVR 6010 or consent of instructor.**
Proposed Prerequisite(s), if different: **None**

1) Reason(s) for change(s): Biology and Environmental Studies are collaborating on the required core for our graduate students. Faculty from both departments will be teaching this course, so we are cross listing it as well as eliminating the prerequisites.

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: $ 0
   for:
Proposed Course fee(s) per student, if different: $15
for: Students taking this as a BIOL course will be charged the Biology department’s standard $15 per credit differential tuition fee.

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: Environmental Studies, M.S.

   Teacher Licensure programs:

   Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/9/15__ (date) by _phone and email_____________ (mail, email, or phone).

Please check one of the items below:

__X__ 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.
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
   Undergraduate:
   Graduate: **SCI 6350**
Proposed Course Number(s), if different:
   Undergraduate:
   Graduate: **BIOL/ENVR 6350**

Current Course Title: Computer Applications in Statistics
Proposed Course Title, if different:

Current Course Description: An examination of several computer-based packages for statistical analysis, focusing on selection of appropriate statistical procedures, processing by computer, and interpretation of results.
Proposed Course Description, if different:

Current Credits: 3
Proposed Credits, if different:

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

1) Reason(s) for change(s): Biology and Environmental Studies are collaborating on the required core for our graduate students. Faculty from both departments will be teaching this course (no one from Science will be), so we are cross listing it. This change has been agreed upon by John Truedson, Chair of Physics/Science (via an in-person discussion in October 2014 and via email on 11/14/13 and 4/16/15).

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: $ 0
   for:
Proposed Course fee(s) per student, if different: $15
for: Students taking this as a BIOL course will be charged the Biology department’s standard $15 per credit differential tuition fee.

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: Environmental Studies, M.S. and Science, M.S.

   Teacher Licensure programs:

   Liberal Education:

The above “service area” programs/departments were notified of this modification on 11/14/13 and 4/16/15 (date) by phone and email (mail, email, or phone).

Please check one of the items below:

_X__ 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.
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
  Undergraduate: 
  Graduate: BIOL 6894
Proposed Course Number(s), if different:
  Undergraduate: 
  Graduate: 

Current Course Title: Advanced Graduate Laboratory Projects I
Proposed Course Title, if different: Advanced Graduate Laboratory Projects

Current Course Description: Students learn laboratory techniques and carry out laboratory research under the supervision of a faculty advisor.
Proposed Course Description, if different:

Current Credits: 3
Proposed Credits, if different: 2

Current Prerequisite(s):
Proposed Prerequisite(s), if different:

1) Reason(s) for change(s): We are dropping the companion to this course (Advanced Graduate Laboratory Projects II), so the "I" can be removed from the name. We are also changing the number of credits to better reflect the number of hours the class meets per week.

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 per credit differential tuition for:
Proposed Course fee(s) per student, if different: $

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:

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification 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.
BSU Curriculum Forms

Form 2

Course Modification Form

Current Course Number(s):
   Undergraduate:  
   Graduate: **BIOL 6896**
Proposed Course Number(s), if different: 
   Undergraduate:  
   Graduate:  

Current Course Title: **Advanced Graduate Field Projects I**
Proposed Course Title, if different: **Advanced Graduate Field Projects**

Current Course Description: Students learn field techniques and carry out field research under the supervision of a faculty advisor.
Proposed Course Description, if different:

Current Credits: **3**
Proposed Credits, if different: **2**

Current Prerequisite(s):
Proposed Prerequisite(s), if different:

1) Reason(s) for change(s): **We are dropping the companion to this course (Advanced Graduate Field Projects II), so the "I" can be removed from the name. We are also changing the number of credits to better reflect the number of hours the class meets per week.**

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 per credit differential tuition** 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/ 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:

       Teacher Licensure programs:

       Liberal Education:

The above “service area” programs/departments were notified of this modification 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.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file. To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
Undergraduate:
Graduate: BIOL 6020

Course Title: Biotechnology for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
2) click on “Areas of Study, and Course Descriptions,”
3) click on “PDF of Entire Catalog” in upper right,
4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

Non-licensure programs: Master of Science - Science

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/16/15___ (date) by ___email__________ (mail, email, or phone).

Please check one of the items below:

__X___ 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.

Reason(s) for dropping this course: Biology faculty have not taught the course in >5 years.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file.
To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
  Undergraduate:
  Graduate: BIOL 6030

Course Title: Field Biology for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
  1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
  2) click on “Areas of Study, and Course Descriptions,”
  3) click on “PDF of Entire Catalog” in upper right,
  4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

  Non-licensure programs: Master of Science - Science

  Teacher Licensure programs:

  Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/16/15___ (date) by __email_________ (mail, email, or phone).

Please check one of the items below:

__X__ 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.

Reason(s) for dropping this course: Biology faculty have not taught the course in >5 years.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file.
To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
Undergraduate:
Graduate: BIOL 6040

Course Title: Anatomy for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
2) click on “Areas of Study, and Course Descriptions,”
3) click on “PDF of Entire Catalog” in upper right,
4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

Non-licensure programs: Master of Science - Science

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/16/15___ (date) by ___email_________ (mail, email, or phone).

Please check one of the items below:

__X___ 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.

**Reason(s) for dropping this course:** Biology faculty have not taught the course in >5 years.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file. To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
  Undergraduate:
  Graduate: BIOL 6050

Course Title: Physiology for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
  1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
  2) click on “Areas of Study, and Course Descriptions,”
  3) click on “PDF of Entire Catalog” in upper right,
  4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

  Non-licensure programs: Master of Science - Science

  Teacher Licensure programs:

  Liberal Education:

The above “service area” programs/departments were notified of this modification on _11/14/13 and 4/16/15___ (date) by __email_________ (mail, email, or phone).

Please check one of the items below:

__X___ 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.

**Reason(s) for dropping this course:** Biology faculty have not taught the course in >5 years.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file. To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
  Undergraduate:
  Graduate: BIOL 6070

Course Title: Genetics for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
  1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
  2) click on “Areas of Study, and Course Descriptions,”
  3) click on “PDF of Entire Catalog” in upper right,
  4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

Non-licensure programs:

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification 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.

Reason(s) for dropping this course: Biology faculty have not taught the course in >5 years.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file.
To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
   Undergraduate:
   Graduate: BIOL 6080

Course Title: Ecology for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
   1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
   2) click on “Areas of Study, and Course Descriptions,”
   3) click on “PDF of Entire Catalog” in upper right,
   4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:

   Teacher Licensure programs:

   Liberal Education:

The above “service area” programs/departments were notified of this modification 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.

Reason(s) for dropping this course: There is no longer a demand for this course.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file.
To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
  Undergraduate:
  Graduate: BIOL 6090

Course Title: Evolution for Teachers

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
  1) go to http://www.bemidji-state.edu/academics/catalog/ and choose the most recent catalog(s),
  2) click on “Areas of Study, and Course Descriptions,”
  3) click on “PDF of Entire Catalog” in upper right,
  4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

Non-licensure programs:

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification 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.

Reason(s) for dropping this course: There is no longer a demand for this course.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file.
To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
   Undergraduate:
   Graduate: BIOL 6895

Course Title: Advanced Graduate Laboratory Projects II

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
   1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
   2) click on “Areas of Study, and Course Descriptions,”
   3) click on “PDF of Entire Catalog” in upper right,
   4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

   Non-licensure programs:
   
   Teacher Licensure programs:
   
   Liberal Education:

The above “service area” programs/departments were notified of this modification 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.

Reason(s) for dropping this course: This course will no longer be required or offered as part of the Biology, M.S. degree program.
BSU Curriculum Forms

Form 4

Course Drop Form
(Use this form to drop a course from the university curriculum file. To drop a course from a program only, use Form 5 Program Modification Form)

Course Number:
Undergraduate:  
Graduate: BIOL 6897

Course Title: Advanced Graduate Field Projects II

New or current courses that will universally replace this dropped course for students remaining in the old curriculum:

This dropped 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:
1) go to http://www.bemidjistate.edu/academics/catalog/ and choose the most recent catalog(s),
2) click on “Areas of Study, and Course Descriptions,”
3) click on “PDF of Entire Catalog” in upper right,
4) press Ctrl F, and enter the prefix and number of the course(s) from this form.

Non-licensure programs:

Teacher Licensure programs:

Liberal Education:

The above “service area” programs/departments were notified of this modification 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.

Reason(s) for dropping this course: This course will no longer be required or offered as part of the Biology, M.S. degree program.
BSU Curriculum Forms

Form 5

Program Modification Form

Program to be modified: Biology M.S.

List all proposed change(s):

1. Delete all courses in “I. Required Core” and replace with the following:
   - BIOL/ENVR 6300 Advanced Project in Literature Review (2 credits)
   - BIOL/ENVR 6400 Advanced Project in Methodology (2 credits)
   - BIOL/ENVR 6890 Grants and Contracts (3 credits)
   - BIOL 6894 Advanced Graduate Laboratory Projects (2 credits) or BIOL 6896 Advanced Graduate Field Projects (2 credits)
   - BIOL/ENVR 6350 Computer Applications in Statistics (3 credits)

2. Eliminate the Research Paper Option.

Reason(s) for the change(s):

1. The Departments of Biology and Environmental Studies plan to have similar core requirements for our master’s students, with faculty from both departments sharing the teaching load. To this end, ENVR 6300, ENVR 6400, and ENVR 6890 will be cross listed with BIOL. Also, SCI 6350 will be changed to BIOL/ENVR 6350.

2. The Research Paper Option has not been used by our graduate students in ~10 years.

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 __11/14/13, 4/9/15, and 4/16/15 ____ (date) by _phone and email_________ (mail, email, or phone).

Please check one of the items below:
__X__ 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.)
Master Of Science - Biology

Course Work Requirements

In completing the M.S. degree in Biology, please note that at least 50 percent of the course credits, outside of Thesis (BIOL 6990) and Graduate Research Paper (BIOL 6980), must be at the 6000 level.

Students may be required by the advisor to take additional courses to offset weaknesses in subject areas.

I. Required Core

- **BIOL 6010** Advanced Topics in Biology (1 credit)
- **BIOL 6894** Advanced Graduate Laboratory Projects I (3 credits)
  or **BIOL 6896** Advanced Graduate Field Projects I (3 credits)
- **BIOL 6895** Advanced Graduate Laboratory Projects II (3 credits)
  or **BIOL 6897** Advanced Graduate Field Projects II (3 credits)
- **BIOL 6920** Directed Group Study (Seminar) (1,1) (2 credits)
- **SCI 6350** Computer Applications in Statistics (3 credits)
- **BIOL/ENVR 6300** Advanced Project in Literature Review (2 credits)
- **BIOL/ENVR 6400** Advanced Project in Methodology (2 credits)
- **BIOL/ENVR 6890** Grants and Contracts (3 credits)
- **BIOL 6894** Advanced Graduate Laboratory Projects (2 credits)
  or **BIOL 6896** Advanced Graduate Field Projects (2 credits)
- **BIOL/ENVR 6350** Computer Applications in Statistics (3 credits)

Subtotal 12 Credits

II. Required Electives

A. Select with the consent of the advisor a minimum of 12 semester credits of graduate level course work in Biology or related field, of which a minimum of 6 semester credits must be in Biology.

Subtotal 12 Credits

III. Required Research

Select one of the following:

A. Thesis Option

- **BIOL 6990** Thesis (6 credits)
B. Research Paper Option

**BIOL 6980 Graduate Research Paper (2 credits)**
Select with the consent of the advisor an additional 4 semester credits of graduate-level coursework in Biology, with at least 2 credits at the 6000 level. (4 credits)

Subtotal 6 Credits

Total Semester Credits Required for Degree 30 Credits

Competency Requirement

Statistics: A working knowledge of applied statistics. This requirement may be satisfied by successfully completing **SCI 6350 BIOL/ENVR 6350 Advanced Computer Applications in Statistics**.

Written Examination

All major programs require satisfactory completion of a final written examination, which needs to be successfully completed prior to scheduling the oral examination. Please consult with your academic advisor for requirements specific to your area of study.
BSU Curriculum Forms

Form 8

Signatures

Elizabeth Rave / Professor / 4/16/15 ________________________________
Proposer / Title / Date

Elizabeth Rave / Biology / 04/16/15 ________________________________
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).

Colleen Greer / Arts and Sciences / 5/13/15 __________________________
Dean / College / Date

[Note: at this point, packet goes to Academic Affairs Office.]