Minnesota State University, Mankato

Curriculum Proposal

Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU’s curricular process for recommendations and decisions.

<table>
<thead>
<tr>
<th>College: Science, Engineering and Technology</th>
<th>Undergraduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department: Biological Sciences</td>
<td>Graduate</td>
</tr>
<tr>
<td>Program: Environmental Sciences</td>
<td>CIP #</td>
</tr>
<tr>
<td>Type of Change: PROGRAM PROPOSALS</td>
<td></td>
</tr>
<tr>
<td>Proposed: Change in Requirements-Course(s) Added</td>
<td></td>
</tr>
<tr>
<td>Title Current:</td>
<td></td>
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<tr>
<td>Title Proposed:</td>
<td></td>
</tr>
<tr>
<td>24-Char. Abbrev:</td>
<td></td>
</tr>
</tbody>
</table>

Course Designator and Number
Number of Credits
(if applicable)

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):

Rationale or Justification for change:

With the expected addition of ENVR 470 to the curriculum, we need to revise the minor to incorporate the new course.

***For General Education or Cultural Diversity Courses Only***

<table>
<thead>
<tr>
<th>GE Category #</th>
<th>GE Category Name (Maximum of 3 Categories)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
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<tr>
<td>N/A</td>
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<td>N/A</td>
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</table>

† For Writing Intensive Courses, attach a description of the kind and quantity of writing.
‡ For Upper Division Courses include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.

Attach paper copies of the following:

a. Syllabus or course outline.

b. Course's student learning outcomes associated with each GE competency or CD designation.

c. List of strategies to be used to assess students' achievement of each GE competency or CD designation.

***For New Courses***

<table>
<thead>
<tr>
<th>Instructional Type: Lecture</th>
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<tbody>
<tr>
<td>Grade</td>
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</tbody>
</table>

Course will be offered:

☐ Fall Semester

☐ Spring Semester

☐ Summer Session

☐ Course content or title is similar to courses in other departments. (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)

Attach paper copies of the following:

a. Syllabus or course outline.

b. Course's student learning outcomes.

c. A list of resources required to offer and support this course.

d. A description of how teaching this course will affect department staffing.

e. If 400/500 level course, an explanation of added expectations of graduate students.

Revised September 2002
### Minnesota State University, Mankato

#### Curriculum Proposal

**Signature Page**

<table>
<thead>
<tr>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td><strong>Not Recommended</strong></td>
</tr>
</tbody>
</table>

Comments:

**College Curriculum Committee**

| **Recommended** |
| **Not Recommended** |

Comments:

**College Dean**

| **Recommended** |
| **Not Recommended** |

Comments:

**General Education Subcommittee**

| **Recommended** |
| **Not Recommended** |

Comments:

**Undergraduate Curriculum and Academic Policy Committee**

| **Recommended** |
| **Not Recommended** |

Comments:

**Faculty Association Graduate Committee**

| **Recommended** |
| **Not Recommended** |

Comments:

**Graduate Dean**

| **Recommended** |
| **Not Recommended** |

Comments:

**Academic Affairs Council**

| **Recommended** |
| **Not Recommended** |

Comments:

**Senior Vice President and Vice President for Academic Affairs**

| **Approved** |
| **Not Approved** |

Comments:

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Revised September 2002
ENVIRONMENTAL SCIENCES MINOR

REQUIRED CORE (14-20)

ENVR 101 Perspectives in Environmental Science (4)
ENVR 440 Environmental Regulations (3)
ENVR 470 Environmental Assessment (3)

Select one (1) of the following:

ENVR 450 Pollution and Control (3)*
ENVR 460 Analysis of Pollutants (4)

*Requires 1 year of chemistry which can be satisfied with
CHEM 106 and CHEM 111
OR CHEM 201 and CHEM 202

ENVIRONMENTAL SCIENCE MINOR

Required for Minor (Core, 21 credits):
BIOL 215 General Ecology (4)
ENVR 101 Perspectives in Environmental Science (4)
ENVR 440 Environmental Regulations (3)
ENVR 450 Environmental Pollution & Control (3)

OPTION A: SCIENCE MAJOR
ENVR 460 Analysis of Pollutants (4)
BIOL 410 Human Ecology (3)

OPTION B: NON-SCIENCE MAJOR
Choose one set of CHEMISTRY courses from the following:
CHEM 104 and CHEM 111 OR
CHEM 201 and CHEM 202
Department of Biological Sciences  
Department Meeting Minutes  
October 20, 2006, 12:03 PM

Present: Lois Anderson, Mike Bentley, Bill Bessler, Brad Cook, Shannon Fisher, Geoff Goellner, Penny Knoblich, Beth Lavoie, Gregg Marg, Beth Proctor, Karen Radermacher, Christopher Ruhland, Robert Sorensen, Dan Toma, Ned Williams,

Absent: Chris Conlin, Margaret Durkee, Dave Grams, Marilyn Hart, John Krenz, Alison Mahoney (sabbatical), Brock McMillan (sabbatical), Steven Mercurio, Donovan Nielsen, Brent Pearson, Becky Pierce, Tim Secott, Dorothy Wrigley

The minutes of the October 13, 2006 meeting were approved as written.

[Unrelated portion deleted]

CURRICULUM:

Several curriculum proposals were presented. Motions were made to approve the following changes:

1) Proposal to add Biology 211 Genetics as a prerequisite to Biology 301 Evolution.


3) Proposal to change the title and description of Biology 402/502. The current title is Stream Limnology and the proposed title is Stream Ecology. The title needs to be changed and the course description added to the Undergraduate Bulletin and the title and course description need to be revised in the Graduate Bulletin.

There was no discussion on the above proposals. All three motions carried.

4) Proposal to change two requirements in the Ecology option. STAT 154 Statistics would be dropped (HLTH 475 Biostatistics would still be required) and ENG 271 would be changed from “recommended support” to “required support”.

After much discussion on the pros and cons of dropping STAT 154, the motion carried.

5) Proposal to drop ENVR 410 and add ENVR 470 to Environmental Sciences Minor.

6) Proposal to change ENVR 600 to ENVR 570 for the Graduate Program in Environmental Sciences.

7) Proposal to add CHEM 106 Introduction to Chemistry or CHEM 201 General Chemistry to the “required general education courses”, add STAT 154 to the “required support courses” and add BIOL 106 General Biology II and ENVR 470 Environmental Assessment to the “required for major” (core) courses for the Undergraduate Program in Environmental Sciences.

Discussion followed each of these proposals. All three motions to approve these proposals carried.

[Unrelated portion deleted.]

The meeting was adjourned at 12:55 PM.