TO: Dr. John R. Halstead, College President

FROM: The College Senate: April 6, 2009

RE: I. Formal Resolution (Act of Determination)
   II. Recommendation (Urging the Fitness of)
   III. Other, For Your Information (Notice, Request, Report, etc.)

SUBJ: Revision of the MS Program in Environmental Science and Biology
(routing #20 08-09 GC)

Signed: ____________________________ Date: 4/9/09
(Thamburshalli M. Rao, 2008-09 College Senate President)

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO: T.M. Rao, The College Senate President

FROM: John R. Halstead, College President

RE: I. Decision and Action Taken on Formal Resolution (circle choice)
   a) Accepted - Implementation Effective Date: ________________
   b) Deferred for discussion with the Faculty Senate on _____________
   c) Unacceptable for the reasons contained in the attached explanation

II, III. Response to Recommendation or Other/FYI
   a) Received and acknowledged ____________
   b) Comment: _______________________________________________________

Signed: ____________________________ Date: 4/24/09
(Dr. John R. Halstead, President, SUNY College at Brockport)

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College Senate Office, 4/8/2009
2008-2009-18_res.doc
**Revision of the MS Program in Environmental Science and Biology**

**PROPOSAL TITLE:** Please be somewhat descriptive, i.e., Graduate Probation/Dismissal Proposal rather than Graduate Proposal.

**BRIEF DESCRIPTION OF PROPOSAL:**
Change the number of credits required for ENV 705, Research Seminar, from 4 to 2. Change the number of credits required for ENV 704, Research Thesis, from 6 to 1-6. Change the number of required 600/700 credits from 17 to 15.

**HOW WILL THIS EFFECT TRANSFER STUDENTS:**

**ANTICIPATED EFFECTIVE DATE:** Fall 2009

<table>
<thead>
<tr>
<th>First Submission</th>
<th>Updated on</th>
<th>Updated on</th>
<th>Updated on</th>
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<tr>
<td>November 19, 2008</td>
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<td></td>
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**SUBMITTED BY:** (contact person)

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>James M. Haynes</td>
<td>Env. Sci. &amp; Biology</td>
<td>x-5783</td>
<td><a href="mailto:jhaynes@brockport.edu">jhaynes@brockport.edu</a></td>
</tr>
</tbody>
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**COMMITTEES TO COPY:** (Senate office use only)

<table>
<thead>
<tr>
<th>Standing Committee</th>
<th>Forwarded For Approval To</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Enrollment Planning &amp; Policies</td>
<td>Committee for approval</td>
<td>11/19/08, 3/2/09</td>
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<tr>
<td>Faculty &amp; Professional Staff Policies</td>
<td>Executive Committee</td>
<td>2/23/09, 3/9/09</td>
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<tr>
<td>General Education &amp; Curriculum Policies *</td>
<td>GED to Vice Provost</td>
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<tr>
<td><strong>Graduate Curriculum &amp; Policies</strong></td>
<td>Senate</td>
<td>3/2/09 – returned to committee 3/23/09 back to Senate</td>
</tr>
<tr>
<td>Student Policies</td>
<td>College President</td>
<td>4/9/09</td>
</tr>
<tr>
<td>Undergraduate Curriculum &amp; Policies</td>
<td>OTHER</td>
<td></td>
</tr>
</tbody>
</table>

* follow special Gen Ed procedures for submission of General Education proposals at “How to Submit Proposals” on our Website.

**NOTES:** 3/2/09 returned to committee with the recommendation for J. M. Haynes to confer with the UC chair.
2. Side by side comparison of the old and new 600/700-level course and credit requirements in the MS program in Environmental Science and Biology.

<table>
<thead>
<tr>
<th>Change</th>
<th>Old Program Course</th>
<th>Credits</th>
<th>New Program Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>No</td>
<td>ENV 614, Exprmntl. Design</td>
<td>3</td>
<td>ENV 614, Exprmntl. Design</td>
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<tr>
<td>Yes</td>
<td>ENV 704, Research Thesis</td>
<td>6</td>
<td>ENV 704, Research Thesis</td>
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<tr>
<td>Yes</td>
<td>ENV 705, Research Seminar</td>
<td>4</td>
<td>ENV 705, Research Seminar</td>
<td>2</td>
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<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>13</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>600/700-level courses</td>
<td>17</td>
<td>600/700-level courses</td>
<td>15</td>
</tr>
</tbody>
</table>

3. Brief rationale for changes.

The MS program in Environmental Science and Biology began in the fall of 2008 and requires a minimum of 30 graduate credits with a minimum of 17 credits at the 600- or 700-level, including four credits of Research Seminar (ENV 704: one credit in each of the first four semesters after matriculation) and six credits of Research Thesis (ENV 705: two credits in each of the second, third and fourth semesters after matriculation). Now that nine students have developed Programs of Study, it is apparent to students and faculty that requiring so many credits of Thesis and Seminar leaves too few credits for 500- and 600-level content courses needed by students to prepare for their thesis research. Most students believe they need to take about 40 credits to adequately prepare for their research and professional goals. This is very expensive for the students and is too many credits for a MS degree; consequently, necessary or desired content courses cannot be taken.

After three semesters of operating the MS in ESB program, the faculty and graduate students have determined that we are achieving all of the objectives for ENV 705, Research Seminar, in the first two semesters after matriculation. These objectives include: how to do science, how to critically evaluate journal articles and research proposals, and technical scientific writing. Requiring two more semesters of ENV 704 is redundant for students, so we are proposing to change the ENV 705 requirement from four to two credits.

The MS program in ESB was modeled on the MS program in Biological Sciences which requires 1-6 thesis credits. We cannot remember if we intended to require six thesis credits in our program or if an error was introduced into our original proposal. In any event, to give students more flexibility re: course selection (depending on their backgrounds, some need more content courses than others), we are proposing to go back to the original model of a variable 1-6 thesis credits vs. a fixed six thesis credits in our students’ Programs of Study.

Finally, with fewer required 700-level credits, it will be harder for students to reach the current requirement of 17 600- or 700-level credits in their 30 credit MS program. Therefore, we are proposing to change this requirement to the standard SUNY requirement of 15 credits.

We believe the proposed changes are minor and that they will greatly improve student success in our program and beyond.

4. Description of new courses. (None)

5. Staffing Issues. (None)

6. Resources and facilities that may be needed to implement the program. (None)
7. Academic administration commentary.

a. Letter of recommendation from the chair—on behalf of the ESB Department, the chairman of ESB drafted this document. Therefore, he approves its contents, and a separate letter is not needed.

b. See approval from Dean Appelle, School of Letters and Sciences.

I approve the attached proposed changes to the M.S. in ENV.

Stuart Appelle, Dean
School of Letters and Sciences