4. Change in Curriculum

**College of Agriculture and Life Sciences**
Department of Plant Pathology and Microbiology
B.S. in Bioenvironmental Sciences
MEMORANDUM

TO:       Ms. Linda Lacey, Director
          Academic Support Services

THROUGH:  Dr. Martyn Gunn, Chair, COALS Undergraduate Programs Council
          Dr. Karen Kubena, Associate Dean, COALS

FROM:     Dr. David Appel, Associate Department Head
          Dept. of Plant Pathology and Microbiology

October 12, 2006

On behalf of the Faculty of the Department of Plant Pathology and Microbiology, I am submitting the attached proposal for reducing the number of required credit hours in the Bioenvironmental Sciences Curriculum (BESC) from 132 hrs. to 120 hrs. In addition, we are re-formatting some of our Departmental requirements by creating disciplinary categories for some of our required courses. The proposed changes include:

1. Removing the technical writing requirement while specifying COMM 203 as a requirement.
2. Removing PHYS 201 as a requirement and adding it to our list of technical elective options.
3. Changing the GENE 301 requirement to either GENE 310 or GENE 315.
4. Drop 9 hours from the technical electives (23 to 14).
5. Drop 3 hours from the free electives (11 to 8).
6. Move BESC 401, AGRO 405, and PLPA 301/303 to a new elective category, the BIO Group.
7. Move BESC 402, 314, and 403 to a new elective category, the ENV Group.

xc:    Dr. Dennis Gross, Head, PLPA
       Mr. Larry Perez, Undergraduate Advisor, PLPA
# Curriculum in Bioenvironmental Sciences

**Required Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>(Th-Pr)</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGEC 105 Introduction to Agricultural Economics</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>AGLS 101 Modern Agricultural Systems</td>
<td>(1-0)</td>
<td>1</td>
</tr>
<tr>
<td>AGRO 301 Soil Science</td>
<td>(3-2)</td>
<td>4</td>
</tr>
<tr>
<td>BESC 201 Introduction to Bioenvironmental Sciences</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>BESC 484 Field Experience</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BOTN 101 Botany and ZOOL 107 Zoology</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>or BIOL 111 and BIOL 112 Introductory Biology</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>CHEM 101 Fundamentals of Chemistry I</td>
<td>(3-3)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102 Fundamentals of Chemistry II</td>
<td>(3-3)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 227 and 237 Organic Chemistry and Lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>ENGL 104 Composition and Rhetoric</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>GENE 310 Principles of Heredity</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>or GENE 315 Genetics of Plants</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HIST 105 and 106 or American history elective</td>
<td>(3-0)</td>
<td>6</td>
</tr>
<tr>
<td>MATH 131 Mathematical Concepts – Calculus</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 240 Introduction to Logic.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or MATH 166 Topics in Contemporary Mathematics II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or MATH 141 Business Mathematics I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>POLS 206 and 207 American National and State and Local Government</td>
<td>(3-0)</td>
<td>6</td>
</tr>
<tr>
<td>RENR 205 and 215 Fundamentals of Ecology and Lab</td>
<td>(3-0)</td>
<td>4</td>
</tr>
<tr>
<td>COMM 203 Public Speaking</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 302 Statistical Methods</td>
<td>(3-0)</td>
<td>3</td>
</tr>
<tr>
<td>* KINE 198 Health and Fitness Activity</td>
<td>(0-2)</td>
<td>1</td>
</tr>
<tr>
<td>* KINE 199 Health and Fitness Activity</td>
<td>(0-2)</td>
<td>1</td>
</tr>
<tr>
<td>BIO Group electives</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>ENV Group electives</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Humanities elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Technical electives</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Visual and performing arts electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td><strong>total hours</strong></td>
<td></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>
NOTES:  
1. A minimum of 120 semester hours will be required for a B.S. degree.  
2. During the sophomore year, a degree plan will be developed in consultation with the departmental advisor.  
3. **BIO Group** selections consist of: BESC 401 Bioenvironmental Microbiology, AGRO 405 Soil Microbiology, PLPA 301/303 Introductory Plant Pathology and Lab, and other course selections as approved by advisor. **ENV Group** selections consist of BESC 402 Microbial Processes in Bioremediation, BESC 403 Environmental Sampling, BESC 314 Pathogens, the Environment, and Society, and other course selections as approved by advisor. Exact numbers of hours from these groups will vary, to achieve a minimum of 120 hrs.  
4. Courses may be selected from categories designed to reflect the professional aspirations of the student. Exact number of technical electives will depend on choice selections from other categories to achieve a minimum of 120 hrs.  
5. To be selected from the University Core Curriculum. The University Core Curriculum includes a requirement of 6 hours of international and cultural diversity courses. Refer to page 19 in Catalogue 129 for a list of acceptable courses. A course satisfying another Core category, a college/department requirement, or as a free elective can be used to satisfy these requirements. See academic advisor.

* See page 20.
MEMORANDUM

TO: Dr. Paul Parrish, Head
    English Department

FROM: Dr. David N. Appel, Associate Dept. Head
    Department of Plant Pathology and Microbiology

SUBJECT: Curriculum Change Proposal

In accordance with the impending legislative mandate, the Department of Plant Pathology and Microbiology is making plans to change the number of required credit hours in the Bioenvironmental Sciences Curriculum from 132 hrs. to 120 hrs. One change being proposed is to drop ENGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing from our list of required courses. We will still allow these courses as technical electives in our Curriculum. This change is part of a number of measures approved by the PLPA Faculty to comply with the overall reduction in the BESC curriculum. If you approve of this change, please indicate so by signing this memo below and returning to me (MS 2132) for inclusion in our curriculum change proposal. Please contact me if you need more information.

Thank you for your consideration.

APPROVED:

[Signature]
Dr. Paul Parrish

xc: Dr. Dennis Gross, Head, PLPA
MEMORANDUM

TO: Dr. Edward S. Fry, Head
   Physics Department

FROM: Dr. David N. Appel, Associate Dept. Head
       Department of Plant Pathology and Microbiology

SUBJECT: Curriculum Change Proposal

In accordance with the impending legislative mandate, the Department of Plant Pathology and Microbiology is making plans to change the number of required credit hours in the Bioenvironmental Sciences Curriculum from 132 hrs. to 120 hrs. One change being proposed is to move PHYS 201 Physics from the list of required courses and add it to our list of recommended technical electives. This change is part of a number of measures approved by the PLPA Faculty to comply with the overall reduction in the BESC curriculum. If you approve of this change, please indicate so by signing this memo below and returning to me for inclusion in our curriculum change proposal. Please contact me if you need more information.

Thank you for your consideration.

APPROVED:

Dr. Edward S. Fry

xc: Dr. Dennis Gross, Head, PLPA
MEMORANDUM

TO: Dr. J. Martyn Gunn, Head
    Dept. Biochemistry

FROM: Dr. David N. Appel, Associate Dept. Head
      Department of Plant Pathology and Microbiology

SUBJECT: Curriculum Change Proposal

In accordance with the impending legislative mandate, the Department of Plant Pathology and Microbiology is making plans to change the number of required credit hours in the Bioenvironmental Sciences Curriculum from 132 hrs. to 120 hrs. One change being proposed is to replace the GENE 301 requirement with an option of taking GENE 310 or GENE 315. This change is part of a number of measures approved by the PLPA Faculty to comply with the overall reduction in the BESC curriculum. If you approve of this change, please indicate so by signing this memo below and returning to me (MS 2132) for inclusion in our curriculum change proposal. Please contact me if you need more information.

Thank you for your consideration.

APPROVED:

[Signature]

Dr. J. Martyn Gunn  10/3/06

xc: Dr. Dennis Gross, Head, PLPA
MEMORANDUM

TO:        Dr. C. Wayne Smith, Interim Head
            Dept. of Soil and Crop Sciences

FROM:      Dr. David N. Appel, Associate Dept. Head
            Department of Plant Pathology and Microbiology

SUBJECT:   Curriculum Change Proposal

In accordance with the impending legislative mandate, the Department of Plant Pathology and Microbiology is making plans to change the number of required credit hours in the Bioenvironmental Sciences Curriculum from 132 hrs. to 120 hrs. One change being proposed is to move AGRO 405 from the list of required courses and add it to a new disciplinary category (BIO Group) of recommended electives. This change is part of a number of measures approved by the PLPA Faculty to comply with the overall reduction in the BESC curriculum. If you approve of this change, please indicate so by signing this memo below and returning to me (MS 2132) for inclusion in our curriculum change proposal. Please contact me if you need more information.

Thank you for your consideration.

APPROVED:

[Signature]
Dr. C. Wayne Smith

xc: Dr. Dennis Gross, Head, PLPA