REVISED COURSE PROPOSAL
BIO 5366 – BIOGEOGRAPHY – Formerly Plant Geography

1. Catalog description
   a) BIO 5366
   b) Biogeography
   c) 3-0-3
   d) F, alternate years
   e) Biogeography
   f) The study of the geographical distribution of organisms, their habitats, and the historical and biological factors that produced them.
   g) Prerequisite: 16 semester hours of biological sciences or permission of the instructor.
   h) Fall 2003

2. Objectives and Evaluation of the Course
   a) Objectives of the course:
      Students will learn basic biogeographic principles and be able to apply them
      Students will become familiar with biogeographic literature
      Students will develop skills at leading and participating in scientific discussions
      Students will develop analytical skills used in assessing biogeographic patterns
   b) Student assessment:
      (1) Leading discussions and participation 25%
      (2) Class presentation 25%
      (3) Term paper 25%
      (4) Exams (2) 25%
   c) Not technology delivered
   d) Not applicable
   e) Not applicable

3. Outline of the Course
   a) Specify units of time (e.g., for a 3-0-3 course, 45 fifty-minute class periods over 15 weeks) for each major topic in the outline. Provide clear and sufficient details about content and procedures so that possible questions of overlap with other courses can be addressed.

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction – Scale of study and the questions asked</td>
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<td>2</td>
<td>The history of biogeography – Early biogeographers and their contributions to the field</td>
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<td>3</td>
<td>Species distributions – The controls on species ranges and their role in evolutionary processes</td>
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<td>4</td>
<td>Continental drift – Continental movements and their influence on current and historical distributions of organisms</td>
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<td>5</td>
<td>Glaciation – Glaciation events and their influence on regional flora and fauna including the impacts of glacial retreat</td>
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<td>6</td>
<td>Species-area relationships - The theoretical and practical implications plus modern explanations</td>
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<td>7</td>
<td>Speciation and extinction – Historical rates, factors that affect the rates of, geographic patterns</td>
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<td>8</td>
<td>Dispersal – Role of dispersal in shaping regional flora/fauna; evolutionary implications</td>
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<td>9</td>
<td>Species ranges - Limitations to and significance of in</td>
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5. Implementation
   a) Faculty member responsible for the class: Scott J. Meiners.
   b) Additional costs to students: None
   c) Text and supplementary materials to be used:

6. Community College Transfer
   Not applicable

7. Date approved by the department or school: April 10, 2003

8. Date approved by the college curriculum committee: April 18, 2003

9. Date approved by CGS: April 29, 2003