NEW COURSE PROPOSAL

1. Catalog Description of the Course. Include the course prefix, number, full title, and units. Provide a course narrative including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be repeated to a maximum of ___ units); time distribution (Lecture ___ hours, laboratory ___ hours); non-traditional grading system (Graded CR/NC, ABC/NC). Follow accepted catalog format.

BIOL 303 EVOLUTIONARY BIOLOGY (3)
Three hours of lecture per week.
Prerequisites: BIOL 200 and BIOL 201
This course will examine principles of biological evolution. Topics include evolutionary genetics, adaptation and natural selection, the fossil record, speciation and macroevolution.

2. Mode of Instruction.

<table>
<thead>
<tr>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Seminar</td>
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<td>Laboratory</td>
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<td>Activity</td>
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3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) Use as much space as necessary.

Evolutionary Biology is a required course for students earning a Bachelor of Science in Biology and a Bachelor of Science in Biology with an emphasis in Cell and molecular Biology. Evolution is a central unifying theme in biology and is thus essential for a well-rounded education in biology.

Students who successfully complete this course will be able to:
- Describe the theory of natural selection
- Explain how new species arise
- Construct a phylogenetic tree
- Explain the mechanisms which underlie evolution at the molecular level

4. Is this a General Education Course YES NO

If Yes, indicate GE category:

<table>
<thead>
<tr>
<th>A (English Language, Communication, Critical Thinking)</th>
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<tbody>
<tr>
<td>B (Life Sciences)</td>
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<tr>
<td>C (Fine Arts, Literature, Languages &amp; Cultures)</td>
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<tr>
<td>D (Social Perspectives)</td>
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<tr>
<td>E (Human Psychological and Physiological Perspectives)</td>
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5. Course Content in Outline Form. Be as brief as possible, but use as much space as necessary.

Evidence For Evolution
Population Genetics
Molecular Evolution
Quantitative Genetics
Adaptation and natural selection
Speciation
The Reconstruction Of Phylogeny

NEWCRSFR 9/30/02
Classification And Evolution
Evolutionary Biogeography
The History Of Life
Evolutionary Genomics
Evolutionary Developmental Biology
Rates Of Evolution
Coevolution
Extinction And Radiation

6. References. [Provide 3 - 5 references on which this course is based and/or support it.]


7. List Faculty Qualified to Teach This Course.

Dr. Amy Denton

8. Frequency.
   a. Projected semesters to be offered: Fall _____ Spring ___x____ Summer _____

9. New Resources Required.
   a. Computer (data processing), audio visual, broadcasting needs, other equipment
   b. Library needs
   c. Facility/space needs

10. Consultation.
    Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

__Nancy Mozingo and Amy Denton______________5 Dec 03___________________________________
Proposer of Course    Date