Eastern Illinois University
Revised Course Proposal
BIO 1200G, General Botany

1. Catalog Description
   a. Course level: BIO 1200G
   b. Title: General Botany
   c. Credit: 3-3-4
   d. Term to be offered: (F,S,Su)
   e. Short title: Gen. Botany
   f. Course description: An introduction to the study of bacteria, fungi, algae, bryophytes, and vascular plants for students majoring in the biological sciences.
   g. Prerequisite: BIO 1100

2. Student Learning Objectives
   Students will:
   - participate in class lectures and laboratory exercises. (critical thinking)
   - complete weekly written laboratory exercises. (critical thinking)
   - identify botanical structures and describe their functions. (critical thinking)
   - effectively communicate, in written form, the information presented in both lecture and laboratory formats. (effective writing)

3. Course Outline
   I. Introduction
      0.5 week
   II. Cell structure and Function
       0.5 week
   III. Life History
        1.0 week
       A. The Cell Cycle
       B. Asexual and Sexual Reproduction
       C. Life History Patterns
   IV. Evolution and Systematics
        1.5 weeks
       A. Mechanisms of Speciation
       B. Systems of Classification
   V. The prokaryotes
      2.0 weeks
       A. Bacteria
       B. Cyanobacteria
   VI. Fungi
       2.0 weeks
       A. Zygomycota
       B. Ascomycota
       C. Basidiomycota
       D. Deuteromycota
   VII. Algae
        2.0 weeks
       A. Chlorophyta
       B. Rhodophyta
       C. Phaeophyta
   VIII. Plantae
         3.5 weeks
       A. Bryophytes
       B. Seedless Vascular Plants
       C. Gymnosperms

Effective Fall 2001
Effective Spring 2004, with revisions
D. Angiosperms
   1. Monocotyledonae
   2. Dicotyledonae

IX. Summary and Conclusion 0.5 weeks
X. Examinations 1.5 weeks

Laboratory exercises for sections III, V-VII will use representative organisms to address morphological, physiological and ecological and characteristics specific to each of the taxonomic groups with emphasis placed on hypothetical phylogenetic relationships.

4. Evaluation of Student Learning
   a. Grades will be assigned based upon points earned on lecture examinations (four) and laboratory exercises (weekly). Lecture examinations and laboratory exercises will account for 75% and 25% of the student’s final grade, respectively.
   b. Students will complete weekly written laboratory exercises to meet the requirements of a writing active course. General Botany is an introductory-level course intended for freshman and sophomore students who have completed BIO 1100 (General Biology).

5. Rationale
   a. General Botany will be placed in the Biological Sciences component of the Scientific Awareness segment of the General Education core.
   b. This is an introductory biology course, so it is appropriate at the 1000 level. Students are exposed to many general biological concepts for the first time. BIO 1100 (General Biology) is a necessary prerequisite so that students have the necessary background in general biological principles to understand the concepts they will be exposed to in this course.
   c. This is a revision of BIO 1200C and should maintain the same curriculum ID as BIO 1200C. No other similar courses exist within the Biological Sciences curriculum.
   d. The course is required of all students majoring or minoring in the Biological Sciences.

6. Implementation
   a. Faculty members to whom the course will be assigned initially: Any qualified Biological Sciences faculty
   c. Specify additional costs to students: lab fee - $10 – previously approved by the President’s Council
   d. First term to be offered: Spring 2001

7. Community College Transfer
   A community college course may be judged equivalent to this course.

8. Date approved by the department: March 24, 2000
9. Date approved by the COSCC: April 14, 2000
10. Date approved by the CAA: October 19, 2000
Departmental contact person: Dr. Henry Owen

Campus phone: 217-581-6238