BIOLOGY 102 – General Biology II
Spring 2003

Course Info:
Credit Hours - 4
Lecture - T, Th 1800 – 1915 hrs, CS 128
Laboratory – T, Th 1930 – 2210 hrs, CS 109

Instructor:
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Office:
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Office Hours: by appointment only

Course Description:
This course explores the fundamental characteristics of living matter from the molecular level to
the ecological ecosystem level with emphasis on general biological principles, introducing the
diversity of living organisms, their structure, function, and evolution, and ecology.

Course Purpose:
This course is to provide students with the opportunity to acquire fundamental knowledge of the
principles of living systems and their applications to everyday life. The course is designed for
both science and non-science majors. The course may serve as a prerequisite for advanced
biology courses, a laboratory science graduation requirement, or as transfer credit for a four-year
institution.

Course Prerequisites: BIOL 101 – General Biology I, but may be taken without BIOL 101
with departmental approval only. (Note – Entry Level Competencies required - the student
should be able to read and express him/herself both orally and in writing on a college freshman
level as measured by a college English competency examination).

Course Texts:
Menlo Park, CA (REQUIRED)

Hunt Publishing Co., Dubuque, IA (REQUIRED)
Other Course Materials Needed:
(1) scantron exam forms, fetal pig (Note – very important – see me before purchasing)

Grading: The final grade for this course will be based on a combination of lecture and laboratory grades as follows:

Lecture (75%) – 3 exams of equal value (90 points each) plus a comprehensive final (180 points) for a total of 450 points; exams will be theoretical and will include objective-type questions (multiple choice, matching, true-false, fill-in-the-blanks) and possibly a few short answer writing questions.
Laboratory (25%) – 2 exams of equal value (30 points each) for a total of 60 points; exams will be mainly lab practical in nature; laboratory reports and participation worth 9 points for each lab session for a total of 90 points (150 total points).

Grades will be assigned on or near a 90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, 50-59 = F scale.

Makeup exams: All exams are to be taken when scheduled. If an emergency arises and you have to miss an exam, please let me know ahead of time if at all possible. The makeup exam must be taken within one week of exam date. No exams will be returned until all exams are taken.

Academic Integrity: Students are expected to follow the Information Technology Student/Patrol Ethics Agreement as posted in computer areas and academic integrity standards as outlined in the Student Handbook.

Note: Attendance, participation, punctuality, courtesy, and attitude will be used to determine borderline grades in both lecture and lab.

Attendance Policy: Students are expected to attend classes and laboratories, and are responsible for any information missed due to absence from class. Failure to attend classes and laboratories is likely to result in lower grades for the course. If for some reason you have to miss a laboratory, plan on making it up by attending the other one that week.

Class Rules: Although I realize that traffic generally is bad in this area and other factors arise from time to time, please plan to arrive a few minutes early for class - punctuality to class and laboratories is expected. Further, I take a dim view of disturbances in class such as pagers or cell phones, so plan accordingly. Finally, food and drink are not allowed in class because we are meeting in a newly renovated room.

Evacuation: In case of emergency, please follow the emergency procedures as discussed on the 1st day of class and as posted in the classroom.
# BIOLOGY 102 – General Biology II

## Class Schedule (Tentative)

<table>
<thead>
<tr>
<th>Class Dates</th>
<th>Campbell and Reece (2002) chapter</th>
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<tr>
<td><strong>Jan</strong></td>
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<tr>
<td>14, 16 – Multicellularity, Animal Evolution</td>
<td>28, 32</td>
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<tr>
<td>21, 23 – Overview of the Animal Kingdom</td>
<td>33, 34</td>
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<tr>
<td>28, 30 – Animal Structure and Function (digestion, nutrition)</td>
<td>41</td>
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<td><strong>Feb</strong></td>
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<tr>
<td>4, 6 – Animal Structure and Function (circulation, gas exchange), EXAM #1 (6th)</td>
<td>42</td>
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<tr>
<td>11, 13 – Animal Structure and Function (immunology, physiology, excretion)</td>
<td>43, 44</td>
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<tr>
<td>18, 20 – Animal Structure and Function (endocrine, reproduction)</td>
<td>45, 46</td>
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<tr>
<td>25, 27 – Animal Structure and Function (development, nervous)</td>
<td>47, 48</td>
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<tr>
<td><strong>Mar</strong></td>
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<tr>
<td>4, 6 – Overview of Plant Kingdom, EXAM #2 (6th)</td>
<td>29, 30</td>
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<td>11, 13 – SPRING BREAK (no classes)</td>
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<tr>
<td>18, 20 – Plant Structure and Function (primary and secondary tissues/growth, plant transport mechanisms)</td>
<td>35, 36</td>
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<tr>
<td>25, 27 – Plant Structure and Function (nutrition, reproduction, hormones)</td>
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<td><strong>Apr</strong></td>
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<tr>
<td>1, 3 – Ecology (introduction, behavioral)</td>
<td>50, 51</td>
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<td>8, 10 – Ecology (populations)</td>
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15, 17 – Ecology (communities), EXAM #3 (17th) 53
22, 24 – Ecology (ecosystems) 54
29 – Conservation Biology 55

May

1 – Review

6 – FINAL EXAM

Note: Optional topics, such as research projects, field trips, research papers, and seminars may be available for interested students or for students who require these elements for a particular purpose. The optional elements may be offered at the instructor’s discretion.