Principles of Biology (Biol 101)
Summer Session II - 2009
Jim Fiordalisi, Ph.D.
M-F 11:30AM – 1:00PM
201 Coker

INSTRUCTOR: Jim Fiordalisi, Ph.D.
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Office phone: TBA
Office hours: TBA
Office: G11 Wilson Hall

SUPPLEMENTAL INSTRUCTION TA:
SI sessions will be organized and run by Hunter Story, a Junior Biology major (BS) from Lake Gaston, NC. Feel free to contact him with questions via his email SImitochondria@gmail.com. Times and locations for SI will be announced ASAP.

TEXT:
Biology, Concepts and Applications, 7th Edition by Cecie Starr
Required reading includes only those chapters listed in the course syllabus, below. However, you may feel free to read other related chapters which may help you understand the required material. Google is also a useful tool for quickly finding answers to specific questions you may have.

Publishers put useful audio study tools, animations, and tutorials on the internet. These "premium" services for our Biol 101 textbook are all located at the CengageNOW website. These services will come free with the purchase of an ebook or a new textbook. I highly recommend that you use all of these tools

COURSE WEBSITE: http://blackboard.unc.edu/. You will need your onyen username and password to log on. This site will contain all course materials, including the syllabus, homework assignments, powerpoint lectures, old exams, announcements, etc. It is YOUR responsibility to check this site DAILY.

EXAMS:
There will be TWO exams and one NON-CUMULATIVE FINAL (Three tests total). Each test will be worth 30% of your final grade (See below for details). There will be NO MAKE-UP EXAMS and NO EARLY EXAMS. Because there is time for only three exams, NO GRADES will be dropped. Every test you take will count towards your grade.

The format will be multiple choice, so bring two #2 pencils to the exam. These are not cumulative exams and will only cover the material specified in the course syllabus. To see exam scores, log into student central and follow link for “results of machine scored exams”. For all exams, you will need your PID number as identification on your exam sheet. Additionally, you may be asked to verify your identity, so it is required that you bring your one-card to each exam. Failure to produce a one-card if asked may result in a zero on that exam.

Test material to study: Questions will come from both the reading and the lecture, including powerpoint slides. Therefore, to succeed in this class, you should come to ALL lectures and READ the required chapters. Your book has a great website with many practice questions. Use it!

HOMEWORK:
There will be THREE homework assignments. Cumulatively the homeworks will count for 10% of your grade (See below for details). The homeworks have two purposes. First they will test you on SOME of the required material so you can determine whether your study techniques are working well for you. Second, they will show you what to expect on the tests. As on the tests, homework assignments will consist of a set of multiple choice questions. You will answer them on-line via the course website accessed through Blackboard. I trust each of you to complete these assignments ALONE and WITHOUT HELP FROM ANYONE ELSE. You may do better on the homework if you have someone else do the assignments for you, but you will almost certainly do worse on the exams...and they are far more important to your grade. If your homework is not received on time by the due date you will receive a zero on that assignment. The homeworks should only help your grade, so please do them and learn from them.

YOUR FINAL GRADE WILL BE DETERMINED AS FOLLOWS:
If you take all THREE exams:
(0.3xExam #1)+(0.3xExam #2)+(0.3xExam #3)+(0.03xHomework #1)+(0.03xHomework 2)+(0.04xHomework 3)

If you take only TWO exams:
(0.45xExam #1)+(0.45xExam #2)+(0.03xHomework #1)+(0.03xHomework 2)+(0.04xHomework 3)

If you take only ONE exam (This is an EXTREMELY dangerous situation, and rarely results in a passing grade. Please come to all THREE exams):
(0.90xEExam #1)+(0.03xHomework #1)+(0.03xHomework 2)+(0.04xHomework 3)

THE FOLLOWING TABLE SHOWS THE LETTER GRADE CORRESPONDING TO EACH NUMERICAL GRADE. I RESERVE THE RIGHT TO MODIFY THIS TABLE. BUT I WILL INFORM YOU OF ANY CHANGES AS SOON AS THEY ARE MADE.
A  >=92
A- >=88
B+ >=84
B  >=80
B- >=76
C+ >=70
C  >=64
C- >=56
D  >=50
F  <50
## Spring 2009: Biology 101

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>6/18 Introduction to class &amp; Invitation to Biology</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>F</td>
<td>6/19 Molecules of Life</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>M</td>
<td>6/22 Cell Structure and Function</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>T</td>
<td>6/23 Ground Rules of Metabolism</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>W</td>
<td>6/24 Photosynthesis</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>R</td>
<td>6/25 How Cells Release Chemical Energy</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>F</td>
<td>6/26 How Cells Reproduce &amp; Meiosis</td>
<td>Chapters 8&amp;9</td>
</tr>
<tr>
<td></td>
<td>First online homework due at 2PM.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>6/29 Observing Patterns in Inherited Traits</td>
<td>Chapter 10</td>
</tr>
<tr>
<td>T</td>
<td>6/30 Chromosomes and Human Inheritance</td>
<td>Chapter 11</td>
</tr>
<tr>
<td>W</td>
<td>7/1 FIRST EXAM – Chapters 1,3-11. Material in the chapters AND the lectures is fair game.</td>
<td>Chapter 11</td>
</tr>
<tr>
<td>R</td>
<td>7/2 DNA Structure and Function</td>
<td>Chapter 12</td>
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<td>F</td>
<td>7/3 HOLIDAY</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>7/6 From DNA to Protein</td>
<td>Chapter 13</td>
</tr>
<tr>
<td>T</td>
<td>7/7 Evidence of Evol/Proc of Evol/Life’s Origin &amp; Early Evolution</td>
<td>Chapter 16,17&amp;18</td>
</tr>
<tr>
<td>W</td>
<td>7/8 Animal Evolution – Vertebrate &amp; Invertebrate</td>
<td>Chapters 23&amp;24</td>
</tr>
<tr>
<td>R</td>
<td>7/9 Plant Tissues/Plant Nutrition &amp; Transport</td>
<td>Chapters 26&amp;27</td>
</tr>
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<td></td>
<td>Second online homework due at 2PM.</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>7/10 SECOND EXAM – Chapters 10-13,16-18,23,24,26,27. Material in chapters and lectures is fair game.</td>
<td>Chapter 11</td>
</tr>
<tr>
<td>M</td>
<td>7/13 Animal Tissues and Organ Systems</td>
<td>Chapter 29</td>
</tr>
<tr>
<td>T</td>
<td>7/14 Circulation</td>
<td>Chapter 34</td>
</tr>
<tr>
<td>W</td>
<td>7/15 Immunity</td>
<td>Chapter 35</td>
</tr>
<tr>
<td>R</td>
<td>7/16 Respiration</td>
<td>Chapter 36</td>
</tr>
<tr>
<td>F</td>
<td>7/17 Digestion and Human Nutrition</td>
<td>Chapter 37</td>
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<td></td>
<td>Third online homework due at 2PM.</td>
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<tr>
<td>M</td>
<td>7/20 Animal Reproduction and Development</td>
<td>Chapter 39</td>
</tr>
<tr>
<td>T</td>
<td>7/21 Ecosystems/Biosphere</td>
<td>Chapters 42&amp;43</td>
</tr>
<tr>
<td>R/F</td>
<td>7/23 FINAL EXAM – Final exam is NOT cumulative, and covers only</td>
<td>Chapters 29,34,37,39,41,42,43. Material in chapters and lectures is fair game.</td>
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Helpful hints:

- This will be an INTENSE course! With hour-and-a-half classes every day it will be very easy to fall behind. It is CRUCIAL that you keep up with the readings and lectures. Take every opportunity to read ahead in the textbook. For most of you this is the only course you’re taking. But don’t assume that you have a lot of free time. Read and study EVERY night, and use the weekends to read ahead.

- Read the textbook chapter for each lecture BEFORE coming to class. We will not have time during the lecture to cover every detail in the book. Therefore it will be very important for you to come to the lectures as prepared as possible. EACH night you should turn off the TV, unplugged the iPod, turn off the cell phone, and read for at least an hour.

- Take good notes DURING class. Before each lecture I will post a list of questions relating to the material to be covered on the course website. You should be able to answer all of the questions based on the lecture and your reading of the text. These questions can be the basis for more detailed note taking during class. I urge you write/type the answers rather than simply read the questions and think about them. Writing things down really helps you learn and retain the material.

- Review the text, your notes, and the Powerpoint lectures AFTER class. The Powerpoint files will be available at the course website in the afternoon following each lecture. The more ways you go over the material the better you will remember it. Because we have class EVERY DAY, it is very important that you review you notes EVERY DAY as well. Much of the material in class relates to the material in the previous class, so it’s important that you learn one lecture before the next day’s lecture.

- However, simply reading over your notes is NOT studying. You need to QUIZ yourself to see what you are retaining from your reading. Here’s some suggestions: Write down the material in your own words, explain the material out loud to someone (or to yourself), have someone else ask you questions, answer relevant practice questions at the end of each chapter in your book and on the book’s website.

- Do the homeworhs WITHOUT HELP. These assignments are meant not only to show you what the tests will be like, but to quiz you on some of the material to see if you remeber what you learn.

- Attend ALL lectures. Looking over the Powerpoints and notes that I will provide to you is NOT the same as listening to me explain things in person. Hearing me explain a concept stimulates a different part of your brain than reading about it does. And this helps you remember it better.

- ASK questions in class. I know it can be intimidating and potentially embarassing to ask a question in a room full of strangers, but it’s also the most direct way to get the answers! And I guarantee that if you have a question, lots of other people have the same question. So be brave!

- Find a classmate to study with. Talking about material will significantly enhance your learning, and it is a good way to be sure you took comprehensive notes. Also, if you know someone who needs extra help learning the material, offer to explain it to them in person or via email, etc. This will benefit you AT LEAST as much as it helps them. The best way to learn anything is to teach it to others. Trust me!

- Discuss material and concerns with me (Dr. Jim Fiordalisi) during office hours, after class, or by email. I want to help, but I can’t unless I know you need some.
• Uphold the honor code. Observing the Honor Code means that during exams, you may not look at another person’s exam; talk to anyone, either in person or by cell phone or email; or use the Internet, another person’s calculator, or any other text or notes. Please report any violations that you observe.