BISC300
Introduction to Microbiology
Fall, 2006

1. Dr. Carlton R. Cooper
   Room: 100 Kirkby Hall
   Time: 10:10-11am on Mondays, Wednesdays, and Fridays
   Office: 324 Wolf Hall
   Phone: 831-6062
   e-mail: crcooper@udel.edu
   Office Hours: Monday 3:30-4:30 and Weds 11:10-12:10 are open office hours, but scheduling is ahead strongly advised. For other days, appointments should be made by email. Appointments will not be scheduled for Tuesdays.
   NOTE: Open office hours are subjected to change and you will be notified via email of such changes.


3. The attached outline of proposed lectures is provided as a guideline, but is subject to variation. In addition, the assigned readings may change. Any changes will be announced as far in advance as possible. Examination dates will not change.

   There is one topic for which students are responsible, although it will be covered in a detailed classroom lecture. The topic is microbial energy metabolism, primarily fermentation and respiration. This information is covered in Chapters 8 and 9, parts of which are assigned, but there will also be required supplementary material. This supplement consists of videotaped lectures which will be available in three ways:

   a) video tape available in reserve in the library;
   b) presentation on UDTV at times to be announced;
   c) through the course webCT, if possible, details to be provided.

   In addition, there will be a detailed study guide on the WebCT.

   Note that these presentations on energy metabolism are not optional. Students are responsible for the materials as if there were lectures presented in the regular class time slot.

4. Grades: BISC 300 is a 4-credit course. Laboratory performance will comprise 25% of the total course grade (laboratory requirements are detailed separately). The remaining 70% of the grade will be determined
by four examinations (two hourlys, a written lab final and a lecture final), and class participation using the computerized PRS system. Each hourly covers one third of the course. The final exam is comprehensive with heavier weight given to the last third of the course, and is 28% of the final grade, with the two hourly exams being 20% each. For an example of how your final grade will be calculated see below:

<table>
<thead>
<tr>
<th></th>
<th>Jeff grades</th>
<th>Sheila’s grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>70 x 0.2 = 14</td>
<td>85 x 0.2 = 17</td>
</tr>
<tr>
<td>Exam 2</td>
<td>85 x 0.2 = 17</td>
<td>80 x 0.2 = 16</td>
</tr>
<tr>
<td>Final Exam</td>
<td>78 x 0.28 = 21.84</td>
<td>95 x 0.28 = 26.6</td>
</tr>
<tr>
<td>Lab Grade</td>
<td>75 x 0.3 = 22.5</td>
<td>95 x 0.3 = 28.5</td>
</tr>
<tr>
<td>Lab Final</td>
<td>80 x 0.05 = 4</td>
<td>85 x 0.05 = 4.25</td>
</tr>
<tr>
<td>PRS</td>
<td>0/20 x 2 = 0</td>
<td>18/20 x 2 = 1.8</td>
</tr>
<tr>
<td>Final Grade for Jeff is 79.34 (C+)</td>
<td>For Sheila is 94.15 (A)</td>
<td></td>
</tr>
</tbody>
</table>

The contribution of exams will be based on accumulation of points, not letter grades of individual exams. All exams will consist of multiple choice questions and may be short answer questions.

**Make-up examinations.** If you are unable to attend a scheduled examination, you must contact the instructor before the exam by email. If the excuse is acceptable, a make-up will be given within a week of the scheduled exam. All makeup exams will be of the short-answer essay type. No additional make-ups will be given. There will be no make-up for the final. Note that simply calling and leaving a message that you cannot attend the exam does not constitute an excused absence. If the exam is not made up, the student will receive a ZERO for that exam.

**Class Participations with Clickers.** Interwrite Personal Response System (PRSRF) will be used in this course. This is the system adopted by the University so you may be using your clicker in a number of different classes. We will use it in class as well as for homework assignments. You are required to have your PRS remote (clicker) in class at all times to receive credit for class participation because in-class activities using the PRS system will rarely, if ever, be announced in advance. Each class period is considered a “session” which may include homework and/or in-class questions. Homework will usually involve reading material on microbiology presented in an official government website, e.g., CDC or on the CNN or NY times health or science pages. I will send you the questions by email and you will come to class with the answers already in your clickers. After your responses are picked up by the PRS receiver, we will discuss the article. To get credit for a PRS session, you must respond to all questions. Credit for each session is all or none, and no credit will be given to those students who do not
respond to all questions. For example, if a student leaves class early, he/she will not get ANY credit for that PRS session. Also, if a student forgets his/her clicker or his/her clicker does not function because the battery is low, he/she will not get credit for the PRS session. You are allowed to miss 4 PRS sessions before points are deducted from your overall class participation grade. Missed session might result from the following situations: sickness, forgetting your clicker, inoperable clicker, leaving class early (you get no credit for a PRS session), fieldtrips, athletic commitments, and job interview. Students exceeding four absences due to illness, personal tragedy or university business must be documented to be considered separately. There may be times when I ask an opinion question and to keep the answers anonymous, ask you to switch clickers. Therefore, unless instructed, using another student’s clicker is considered an act of academic dishonesty and will be reported to the office of Judicial Affairs. For assistance outside of class with your PRS remote and other useful information about the PRS system, please refer to the following websites:

http://www.udel.edu/topics/clickers/students/

http://www.udel.edu/present/tools/clickers/index.html

Course grading will be on a strict percentage basis, combining lecture performance, laboratory performance, and class participation.

The grade divisions for this course will be:

A  93-100
A-  90-92

B+  88- 89
B   83-87
B-  80-82

C+  78- 79
C   73-77
C-  70-72

D+  68- 69
D   60-67
F   0- 59

Academic Honesty: Students are responsible for understanding the appropriate sections of the Student Guide to Policies. Every effort will
be taken to enforce these policies and all suspected cases of academic dishonesty will be prosecuted through the Student Judicial System. Standards of academic honesty apply not only to lecture examinations, but also to laboratory quizzes and laboratory reports. See Laboratory handout for further details. For example, unless otherwise indicated, although you worked in a group on a laboratory experiment, the report should be individually written. Note, the final laboratory grade will consist of weekly lab quizzes, lab reports, lab practices and lab final exam.

Point Distribution:

<table>
<thead>
<tr>
<th></th>
<th>Percentage of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hourly #1</td>
<td>20</td>
</tr>
<tr>
<td>Hourly #2</td>
<td>20</td>
</tr>
<tr>
<td>Final Exam</td>
<td>28</td>
</tr>
<tr>
<td>Class participation</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory</td>
<td>25</td>
</tr>
<tr>
<td>Lab written final</td>
<td>5</td>
</tr>
</tbody>
</table>

SORRY, THIS IS NOT A BANK!! REQUEST FOR EXTRA CREDIT WILL BE DENIED!!

Behavior: The Student Guide to University Policies: 
http://www.udel.edu/stuguide/04-05/code.html details the behavior expected of U/D students. As a student in BISC 300, you are expected to conform to these guidelines. This means that you should not be talking during the lecture unless you are asking or answering a question and you **should have your cell phone off.**

**Email Policy**
- I will not reply to specific questions regarding the lecture and/or reading assignments via email. You are to answer in class or come to my office. I will not reply to emails over the weekend, fall break, when out of town on business, and thanksgiving holiday. Lastly, give me 24 hours to reply to your email provided it was not sent one of the restricted times above (weekends, fall break, out of town on business, and thanksgiving holiday).