Your Instructor:
Brian Buehler
Science office 657-2031
E-mail: bbuehler@billingsclinic.org
Office Hours: by appointment

Your Texts:
Human Anatomy & Physiology by Marieb (8th edition).

Your Grade/Outcomes Assessment:
Tests:
Your primary learning objective for this course is to obtain a good working knowledge of
the anatomy of the muscular, skeletal, and nervous systems. To assess this, you will be given
two examinations: a midterm and a final. These exams will include written and practical
components (mostly practical), and except under unusual circumstances will encompass material
assigned in the laboratory only.

In addition, there will be a short quiz covering the previous week’s material given at the
beginning of each laboratory session. There will also be some lab exercises that will require a
lab review sheet to be turned in for proper credit.

PhysioEx Labs:
Due to both time and budgetary constraints, you will perform two “virtual labs” on your
own time. These labs are computer simulations of physiology experiments contained on the
PhysioEx 7.0 CD-ROM, which was included in your lab-manual. While performing the lab
procedures, you will complete the appropriate review sheets from your lab manual and turn them
in for credit. These should be turned in sometime before the Final Exam. This is a very easy
assignment, and it is purely for your benefit. These labs are extremely helpful in illustrating
many of the difficult concepts covered in the lecture portion of the class. It is to your advantage
to do them thoroughly and correctly.

Assigned labs:
Exercise 16B: Skeletal Muscle Physiology
(Review sheet 16B questions 1-9; pp. PEx33-PEx 34)
Activities 1-5 (pp. PEx-23 thru PEx-28)

Exercise 18B: Neurophysiology and Nerve Impulses
(Review sheet 18B questions 1-12; pp. PEx 47-PEx 48)
Activities 1-7 (PEx-37 thru PEx-43)

The outcome assessment of this course can be summarized as:
Midterm Exam 25%
Final Exam 25%
Quizzes 20%
Lab Reports 15%
PhysioEx Lab Reports 15%

Final letter grades will be assigned as follows:
A = 90-100
B = 80-89
C = 70-79
D = 60-69
F ≤ 59

In addition, I reserve the right to assign “minus grades” for so-called “borderline” grades. For
example, a grade of 79 may be assigned as a B- instead of a C based on your overall
contributions to the class, which may include such things as attendance and participation.

Lab Schedule
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic(s)</th>
<th>Chapter(s)*</th>
<th>Noteworthy Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Language of Anatomy/Organization/Microscopes</td>
<td>1, 2, 3 (L); 1 (M)</td>
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<tr>
<td>2</td>
<td>Skeleton: Overview/Upper Extremity</td>
<td>9 (1-9), 11 (L); 6, 7 (M)</td>
<td>Quiz 1</td>
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<tr>
<td>3</td>
<td>Skull</td>
<td>10, 12 (L); 7 (M)</td>
<td>Quiz 2</td>
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<tr>
<td>4</td>
<td>Skeleton: Lower Extremity/Axial</td>
<td>10, 11, (L); 7 (M)</td>
<td>Quiz 3</td>
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<tr>
<td>5</td>
<td>Articulations/ Primary Tissues I</td>
<td>13 (1-9), 6 (L); 4, 8 (M)</td>
<td>Quiz 4</td>
</tr>
<tr>
<td>6</td>
<td>Primary Tissues II/ Skin</td>
<td>6, 7 (L); 4, 5 (M)</td>
<td>Quiz 5</td>
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<tr>
<td>7</td>
<td>Midterm Exam</td>
<td></td>
<td></td>
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<tr>
<td>8</td>
<td>Muscles: Intro/Upper Extremity/Trunk</td>
<td>13 (10-14), 14, 15; 9, 10 (M)</td>
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<tr>
<td>9</td>
<td>Muscles: Lower Extremity/Trunk</td>
<td>15 (L); 10 (M)</td>
<td>Quiz 6</td>
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<td>10</td>
<td>No Lab</td>
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<td>Veteran’s Day</td>
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<td>11</td>
<td>Nervous System: Brain and Cranial Nerves</td>
<td>17, 19 (1-7, 13-16)(L); 11, 12 (M)</td>
<td>Quiz 7</td>
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<tr>
<td>12</td>
<td>No Lab</td>
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<td>Thanksgiving</td>
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<tr>
<td>13</td>
<td>Spinal Cord and Nerves</td>
<td>20, 21 (1-18) (L); 12, 13 (M)</td>
<td>Quiz 8</td>
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<tr>
<td>14</td>
<td>Final Exam</td>
<td></td>
<td>12/9 or 12/10</td>
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<tr>
<td>15</td>
<td>Pick up final exam and grades</td>
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* L denotes Lab Manual  
M denotes Marieb text

Students will be expected to have read the assigned section in the lab manual before coming to the lab. The chapters in the Marieb text are listed simply for your reference.

Underlined lab book chapters indicate those for which the review sheets for the appropriate chapter will be completed and turned in for credit by the end of the next lab meeting. You may turn in photocopies so as not to have to tear pages out of your book.

**While all lab sections will cover the same material, lab-hopping is not an option. If for good reason you need to attend a section other than the one for which you are registered (a rare occurrence which will not be abused), you need to obtain prior clearance from me.

The Material Safety Data Sheets (MSDS) for any chemical used in this laboratory can be obtained from Science Technical Services in Sci 241. These sheets contain information on the hazards associated with the chemical, as well as information on its proper handling and storage.