# THIS WEEK IN BI 103

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<td><strong>Muscular System</strong>&lt;br&gt;Muscle structure, interactions with the skeletal system, and exercise.</td>
<td><strong>Skeletal Structures</strong>&lt;br&gt;Basic bone anatomy and the most likely human skeletal disorders.</td>
<td><strong>Muscles and Organ Systems</strong>&lt;br&gt;An overview of organ systems and focus on muscles.</td>
<td>p. 60 - 95 &amp; 316-329&lt;br&gt;Basic anatomy and physiology, followed by disorders.</td>
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## Work Ahead Systems Overview

Read p. 60-95 in the *Human Body* and answer the following questions.

- The circular shaped units that make up bones are called _____ (p. 73)

- The growth area of a bone is called the ____________________ (p. 74)

- Briefly summarize the steps of bone repair (p. 75).

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## Work Ahead System Disorders

Read p. 316-329 in the *Human Body* and answer the following questions.

- How does osteoporotic bone differ from “normal” bone? (p. 318)

- Why would a prolapsed disc cause pain? (p. 321)

- How does rheumatoid arthritis differ from osteoarthritis? (p. 323-325).

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Which structures link muscle to bone? ___________ (p. 90-91)

In carpal tunnel syndrome, pressure is placed on the ___________ (p. 327)
Work Ahead for Recitation

Read over “Skeletal Structures” (this is posted on the bottom of the main page of the BI 103 website) and answer the following questions.

Using your Human Body book, try labeling the photo in question #1, p. 29.

Last week in lab, you had microscope slides of fat, loose, and dense connective tissues, this week we are adding on two more connective tissues, __________ and ___________ (question #3, p. 31)

Using your Human Body book, label the arm and hand photo in question #1, p. 33.

Read over the portfolio assignment for this recitation (p. 35). You can start these five brief paragraphs now, using information in the Human Body book readings for the week and be ahead on your portfolio which is due next Monday.

Work Ahead for Laboratory

Read over “Muscles and Organ Systems” (this is also posted on the bottom of the main page of the BI 103 website).

The three types of muscle tissues are __________, __________, and __________

Tendons and ligaments, like those found in the knee, are made up of dense connective tissue, which is largely collagen fibers. From the skin lecture last Thursday, which cells produce collagen? __________

Portfolio #1 is due next Monday, April 11. You can check your four portfolio assignments to make sure they are complete by reviewing the requirements (Activity Manual, Appendix B, p. 175)