

**Vertebrate Histology – BIOL 4400 (CRN 81780 – Sec. A, CRN 81781 – Sec. B)  
Fall Semester, 2014**

**Instructor** - Dr. J. Mitchell Lockhart

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**Office Hours:** As posted or by appointment

**Course hours:** Lecture – Monday, Wednesday, Friday - **9:00-9:50** AM BC 2022

Laboratory – Sec. A – Monday and Wednesday – 10:00-11:50 AM BC 2070

Sec. B – Monday and Wednesday – 12:00-1:50 PM BC 2070

Lecture/Laboratory – 9:00-12:15 Tuesday/Thursday, Biology Building Rooy0atory

**Cheating:** Refer to the Student Code of Ethics in the Valdosta State University Student Handbook. A student caught cheating will be penalized ranging from receiving a zero for that assignment or test to failing the class.

**Important Dates:** Midterm – October 2; Final Exam – Thursday, December 11, 8:00-10:00 AM

\* The Instructor reserves the right to modify the above contents with proper notification.

### **Laboratory Portfolio (300 points)**

In laboratory, you will be preparing an exhaustive series of original drawings of your observations of tissues through the microscope. Each lab unit has a series of designated drawings you are to do. **These are to be drawings of your observations through a microscope, not of your ability to copy an image at home from a picture.** Should it become necessary that I check every notebook at the end of each lab I will. I will spot check notebooks during lab to see that you are making satisfactory progress. Each drawing should fill one page of paper and should be labeled to include identification of the image and magnification. Any significant features of your drawing should be labeled. You will be graded on effort (which isn't hard to determine) NOT on artistic ability. Keep these drawings in a notebook and PROTECT IT CAREFULLY! You will also scan each of these images and at the end of the semester you will turn in an original AND electronic portfolio.

**Due Date: One day after the final laboratory period.**

### **Pathology Powerpoint (100 points)**

For this assignment, you will do a "research powerpoint" on a pathologic topic of your choosing (for example, skin cancer, breast cancer, etc...I will provide a list). Select a topic (confirm it with me to avoid duplication) and prepare a powerpoint on your topic. Include word slides with a description of your topic and, MOST IMPORTANTLY, histologic images of both NORMAL and PATHOLOGIC tissues. If you can't find histologic/pathologic images – SWITCH TOPICS! Do not worry about citing references. I am interested in good topics and good images. The number of slides is not important, but be thorough (5 is too few, 500 is too many, 30-40 should be sufficient).

**Due Date: To be determined**



4. Students will express themselves clearly, logically, and precisely in writing and in speaking, and they will demonstrate competence in reading and listening. They will display the ability to write coherently in standard English; to speak well; to read, to understand, and to interpret the content of written materials in various disciplines; and to listen effectively and to understand different modes of communication.

**BIOL 4400 Tentative Lecture Schedule  
FALL 2014**

This is the order which we will go through topics:

1. Histology and Its Methods of Study
2. The Cytoplasm
3. The Cell Nucleus
4. Epithelial Tissue
5. Connective Tissue
6. Adipose Tissue
7. Cartilage
8. Bone
9. Nerve Tissue and The Nervous System
10. Muscle Tissue
11. The Circulatory System
12. Blood
13. Hemopoiesis
14. The Immune System and Lymphoid Organs
15. Digestive Tract
16. Organs Associated with the Digestive Tract
17. The Respiratory System
18. Skin
19. The Urinary System
20. Endocrine Glands
21. The Male Reproductive System
22. The Female Reproductive System
23. The Eye and Ear: Special Sense Organs

Probable Exam Dates:

Exam 1 – September 15

Exam 2 – October 8

Exam 3 – November 3

Exam 4 – December 3

Final Exam – Thursday, December 11 - 8:00-10:00 AM

