

BIOL530-J Histology: Essential Course Information

Course Description: This 500 level 4 credit hour human histology course is fully on-line. It is designed to guide and facilitate learning microscopic architecture and function of cells, tissues and organs of the human body. All lectures, labs, quizzes, and exams are on-line. There is an on-line discussion board for students to post questions to the instructor, as well as their classmates, and these questions and responses can be viewed by all students on the course web site. There are 32 lectures, 18 labs, 5 module quizzes, a cumulative midterm and a final comprehensive exam. The course requires a minimum of 12 hours of focused time each week (summer course is more intense so as much as 20 hours per week may be required to keep up with the course work). It is different from a face-face traditional course in that there is flexibility as to when lectures and the lab assignments are completed. The course content is organized and delivered in five modules (6 -10 days duration summer semester, 2 – 3 weeks fall / spring semesters). The course is both synchronous (5 graded module quizzes) and asynchronous (freedom as to when lecture viewing and lab assignments are completed within each module period). Follow this link to watch a six minute video that will illustrate and explain the essence of this course <https://webconnect.sc.edu/pzzlx11bovbr/>

Required text is the Lab Manual, an eBook: “Histology Laboratory Exercises: A Guide for Study of WebMic Specimens” by Robert W. Ogilvie, Ph.D., Van-Griner Learning, 2020, 9th Edition. This e-text includes interactive study questions, note taking, flash card tool, and video tours of WebMic specimens assigned for the virtual microscopy labs in the course. To purchase the book [Click Here](#) . Purchase includes permanent access after downloading to your computer and phone. Internet access and updates for one year after date of purchase. Watch this video to learn how the e-text lab manual you will purchase will facilitate your study of WebMic specimens: <https://youtu.be/KgTDWmQ3o6w>
More information and URL to access WebMic on the course website.

See page 2 for reports by former students about the importance of using this lab manual.

Technology requirements

- Intel i3 or AMD Athlon II (minimum) PC (Windows 10, 32 bit, 64 bit) or Mac Computer (Mac OSX 10.6 or later), **not a mini, netbook, tablet, mobile phone or Ipad.**
 - 4GB RAM minimum and 500 Mb of free hard disc space
- Up-to-date version of Java installed on your computer
- Internet connection with absolute minimum 5 Mbs download and 1 Mbps upload speeds. **Download speed of between 6 – 10 Mbs is recommended.** Equal to and greater than 10 Mbs is better.
 - Test your speed at: both <https://fast.com> & <http://www.speedtest.net/>
 - [Click Here](#) for Internet Speeds and what you can do at different download speeds.
- Up to date versions of Mozilla Firefox, Google Chrome, Microsoft Edge, and Safari (Necessary due to constant changing of java security by browsers).
- Setting up access to two virtual microscopy programs
 - WebMic, an Internet accessible virtual microscopy program containing the primary lab specimens. This lab resource is free with registration for the course.
 - Biolucida Viewer, a light weight client side viewer for virtual slides that are dynamic providing a simulated microscopy experience. This lab resource is also included at no additional cost when registered to take the course.

Grade Determination: Grades are based on a syllabus quiz, 5 module quizzes, 5 graded practice quizzes, a cumulative midterm and comprehensive final examination. Graduate Students enrolled in the course are required to submit a special requirement of either lab work or a paper.. Final grades are determined by the percent of points earned; A (89.5-100), B+ (84.5 – 89.4), B (79.5 – 84.4), C+ (74.5 – 79.4), C (69.5 – 74.4), D (59.5 – 69.4), F (59.4 or less).

See next page for reports of how useful the required lab manual was for success in the course!!

What former students say about the required eBook Lab Manual

“Histology Laboratory Exercises: A Guide for the Study of WebMic Specimens”

- The best thing about the E-manual was how interactive it was. As I read, watched videos, and flipped back and forth between the text, webmic, and lecture, I was able to digest the concepts more thoroughly than if I had only been using one resource. Being able to study on multiple platforms increased my retention of the important information. The questions in the E-manual were great for clarifying concepts and were helpful practice for the quizzes.
- I think the lab manual is a fantastic companion to the WebMic study aid. The questions in particular are great self-assessments of your understanding of the material.
- The lab manual is awesome. It helps me to look at something and then to understand the function all at the same time. I always run into problems when I have to do them separate.
- The lab manual has helped me by providing more detail than just the tab labels in the specimens, reinforcing lecture material, and structuring my studying by outlining an order to the labs. The study questions included also help me understand how well I grasp the material.
- The lab manual helped me learn because of the study questions at the end. After viewing the specimens the questions truly made me think about what I had just viewed. My ability to answer these questions helped me realize if I were studying efficiently or not.
- It helped me learn because it really gives you that guidance that you lack from just going through WebMic on your own. It shows you important things to look at from multiple views, in different stains, and through multiple examples.
- I used the lab manual alongside WebMic, and I do not understand how an individual could succeed without the lab manual. I would start by reading the overview before every lab unit. This helps me understand what I am about to learn, and what I am supposed to get out of the lab. Then I go through each specimen carefully, looking at every magnification and noting every characteristic that comes with each slide. After I have finished the specimen, I would answer the questions in the lab manual. I find this to be the most crucial step. It not only double checks my understanding, but it also shows me if I missed an important part of the lab slides. So much detail is presented for each specimen, and the questions help make sure you noticed it all.
- I used the lab manual for every single unit. The overview was useful to get my mind prepared about what it was about to learn. I looked at every specimen noted in the lab manual, and as I went through the slides, I would take notes on anything I noticed and wrote down the definitions that were provided from WebMic. Once I went through all the specimens, I read the paragraphs to see if I missed any detail from WebMic itself, and many times I found the lab manual had useful details that came in handy when taking the quizzes. I would highlight important things from the manual as I read along.