

### Web-based Laboratory Assignment

Please access the web site for the **Sierra College Department of Biological Sciences** to answer the following questions: You may be required to **scroll to the bottom** of some pages to access **links**, and will be required to return to the Microbiology “Announcements” page between questions.

1. The **Mission Statement** for the Biological Sciences Department is multifaceted; what aspect of this statement best describes how the department will serve you? \_\_\_\_\_  
\_\_\_\_\_.
2. Assignments, class resources and instructional materials can be found under which **heading** on the **introductory page**? \_\_\_\_\_ What **Special Student Link** becomes visible at the page bottom when you click on this heading? \_\_\_\_\_
3. According to the information provided within the **Recommended Study Techniques** section: Learning involves \_\_\_\_\_. Being a successful student may require a change in attitude or \_\_\_\_\_. It will be easier if you enjoy studying, think positive thoughts and recognize the value of learning the material being presented. Your role as a student is analogous to a \_\_\_\_\_ and you will do better with practice.
4. This course, **Bio. Sci. 4** is the major's course in \_\_\_\_\_, so if you click on this word you will access an introductory page designed specifically for you. Harriet Wilson is your instructor, so click on her name.
5. Scroll down and click on **Study Guide (Questions and Answers)** to find a list of topics covered in this course. In the first section, \_\_\_\_\_ (pg 2), you can see a number of terms defined, but there are no questions written, only the \_\_\_\_\_. Practice questions are available in the Microbiology study guide. What is the last “**bulleted**” item listed on the study guide answers page? \_\_\_\_\_  
**The information included here is important!** Notice you are provided with another link.
6. Now take a look at some of the **Laboratory Visuals**. The fifth **photomicrograph** in the “S” section shows several larval or immature forms (cercariae) made by organisms identified as \_\_\_\_\_ in a whole mount (w.m.). What distinctive feature of the tails is unlike those of *Fasciola hepatica*? \_\_\_\_\_. There are 61 photomicrographs here, providing you with visual representations of many of the microorganisms you will be studying. Many students find that making flash cards for these is a good way to learn them. Specific information about taxonomy (needed for Lab. Exam #1) is provided in the laboratory syllabus. Organisms identified as *Trichinella spiralis* are found within what type of tissue? \_\_\_\_\_ Notice that one of these photomicrographs shows organisms in a cross section (c.s.), rather than a w.m.
7. When you click on **Current Quiz and Exam Keys** you will see that the keys for quizzes and exams are arranged according to the order in which they were taken. During the Spring semester of 2016, how many lecture quiz keys were posted? \_\_\_\_\_ Notice that this section is missing the keys to laboratory exams #1 and #2. If you see the acronym “SK” on any of your quizzes or exams, it means you should “see the key”. This section of the Webpage will be a good place to check your answers and make sure you know correct versions for the final exam.

8. In the **Illustrations/Paintings** section under **Illustrations and Diagnostic Tests** you can observe some computer-generated illustrations. Most of these are representations of different types of \_\_\_\_\_ that have been stained in various ways, but there are also five different illustrations of human \_\_\_\_\_ cells. The last section, **Diagnostic Tests**, shows a variety of biochemical (enzymatic) tests that are used in this lab. What do you see (listed by number) under the pictures? \_\_\_\_\_ Keep this section in mind when studying for laboratory exam #2.
9. Look at the information posted under **Bio. 4 Lecture Notes**. Students enrolled in this Microbiology class have the option of reading or printing lecture notes posted as PDF versions; however, students are still responsible for information provided during class time. What lecture topic is divided into two sections (Part 1 and Part 2)? \_\_\_\_\_ Auditory versions of lectures (most beneficial for those with an aural or auditory learning style) are not currently available, but students are allowed to use recording devices in the classroom.
10. Now click on **Web-based laboratory assignments**. During this introductory lab, you are expected to view the Microbiology web page, see what kinds of resources are available to you, and think about how you can use them. Click on **VARK Inventory** to find a guide to learning styles. Which of the learning styles listed do you think will fit you best (may be more than one)? \_\_\_\_\_ If you have never taken this test before, complete the questionnaire. Determine which learning strategies will work best for you. Do you think this information will be helpful to you in this class? \_\_\_\_\_
11. Click on the **American Society for Microbiology** link and notice the topics listed in the dark gray menu bar (near top of page). Click on “Publications”, and scroll down to “Reports”. When the new page opens, select “Reports/Guidelines” in the blue menu bar, then under “American Academy of Microbiology” select “FAQ Series”. Click on “FAQ: Human Microbiome”, select “Supplemental Materials” and then click on the “Microbiomeinfographic.pdf” to learn more about the microbes living in and on your body. What is the name of the community of microbes living in “**intimate association**” with our bodies, and the genes they contain? \_\_\_\_\_ According to the information provided, the human body is only about \_\_\_\_\_% human cells, and the rest of the cells present are mostly \_\_\_\_\_.
12. Are you interested in joining the Northern California branch of the American Society for Microbiology (NCASM), and attending their conference this semester? \_\_\_\_\_ The Fall meeting is scheduled for Saturday, October 22nd (most of the day). Would you be interested in joining the Sierra College student chapter of ASM? \_\_\_\_\_ If so, please check out our website ([http://biosci.sierracollege.edu/asm\\_sierra/index.html](http://biosci.sierracollege.edu/asm_sierra/index.html)), and try to attend our first meeting, TBA.