SUR110 Microbiology Syllabus

Course Information

Credits 2
Campus Washburn Institute of Technology
Address 5724 SW Huntoon
City/State/Zip Topeka, Kansas 66604
Office Fax 785-273-7080

Description
The student will learn about basic micro-organisms and how they relate to the operating room and sterile technique.

Textbooks
ISBN: 978-1-305-95641-4
ISBN: 978-1-30-595643-8
Microbiology for the Surgical Technologist, 2nd Ed. (2017) Delmar Cengage Learning

Student Learning Outcomes:
A. Communicate effectively
B. Integrate technology
C. Learn effectively
D. Demonstrate cooperative teamwork skills
E. Apply safety in the workplace
F. Think critically and creatively
G. Demonstrate responsible work ethics

Competencies
1. Identify historical figures and their contributions to microbiology.
2. Describe how a microscope works.
3. Identify structures of a cell and understand their function.
4. Understand basic fluid movements within the cells.
5. List the characteristics to classify and identify bacteria.
7. Discuss the disease process.
8. Describe cell pathology.
9. Describe characteristics of viruses and list several important viral diseases.
10. Describe Rickettsia and Helminths.
11. Understand the body's immunologic defense mechanisms.
12. List factors that affect the pathogenicity of bacteria.
13. Discuss the process of infection.
14. List the characteristics of the inflammatory response of the body.
15. Discuss the process of hyper-sensitivity in the body.
16. Demonstrate proper specimen collection and handling in the Simulation Lab (RSC).

**Guidelines for Success**

**Assessment Plan**
Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution's technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

**Grading Rationale and Grading Scale**
Grades will be issued at the completion of each 9 weeks. A student may not continue in the program with a final grade less than a “C”. The following is the grading scale:

- **A** 94% - 100%  
  Excellent work
- **B** 87% - 93%  
  Above average work
- **C** 80% - 86%  
  Minimum acceptable level, average
- **D** 75% - 79%  
  Below average and unacceptable to continue in class
- **F** 74.5% or below  
  Fail

**Daily Grades**
Five points will be given daily for class participation and Ten points will be given daily for attendance.

Unit tests and Pop quizzes will be given. Test material may come from any of your books on that particular subject or from lecture and videos. Take notes. Chapter Tests and a Final Exam will be administered at the end of the course.

**Attendance**
Attendance is crucial. If a student is absent 5 hours or more zero points will be awarded for that day. If a student is absent 3 hours a day a minimum of 5 points can be earned. If a student is tardy more than 5 minutes he/she will lose 2 points. You will be given 2 “free tardies” that will not count against your attendance.

**Disability**
The Americans with Disabilities Act (ADA) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST self-identify by completing an application. In addition students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date the accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.
The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you will need accommodations, it is your responsibility to contact: ADA Coordinator, 785.670.3365 or Gloria.christian@washburn.edu.

Washburn University prohibits discrimination on the basis of race, color, religion, age, national origin, ancestry, disability, sex, sexual orientation, gender identity, genetic information, veteran status, or marital or parental status. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pamela Foster, Equal Opportunity Director/Title IX Coordinator, Washburn University, 1700 SW College Ave, Topeka, Kansas 66621, 785.670.1509, eodirector@washburn.edu.