Course Title: Surgical Microbiology

Catalog Description:
This course will enable you to recognize how you can prevent the spread of disease and promote wound healing. You will study the structure and function of microorganisms, pathogenic microorganisms and their diseases along with the methods of transmission. The concept of standard precautions will be explored. Various methods of sterilization and disinfection will be discussed. You will study the wound healing process and classifications in conjunction of the body’s defenses against disease.

Prerequisites or Necessary Entry Skills/Knowledge:

Topics to be Covered (General)
1. Introduction to Microbiology
2. Cell Structure
3. Functions of Microorganisms
4. Process of Infections
5. Defense Mechanisms
6. Wound Healing

Student Learning Outcomes
1. Discuss the historical background of microbiology and be able to identify basic equipment used to identify microorganisms.
2. Differentiate among various basic microorganisms based on characteristics such as cellular structures, life cycle, mode of transmission, and diseases caused by those microorganisms.

3. Describe the conditions that affect the life and death of microorganisms.

4. Discuss the relationship between humans and pathogenic and non-pathogenic bacteria.

5. Identify and describe how tissues react and are restored to normal function following trauma.

6. Demonstrate knowledge of the stages of wound healing, complications of wound healing, and classification of wounds.

Is this course part of a transfer pathway: Yes ☐ No ☒
*If yes, please list the competencies below

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