



**Surgical Basic Principles Syllabus**  
**SURG-6200**  
**3 credit hour**  
**Surgical Skillz**  
**502-802-7360**  
**(info@surgicalskillstraining.com)**

**I. Short Description of Course**

This course is designed to introduce the student to basic principles on surgical assisting. The course incorporates history of surgery, ethics in surgery, molecular and cell biology, the role of cytokines as mediators of inflammatory response, shock, electrolytes, fluid, hematologic principles in surgery, metabolism in surgical patients, wound healing and critical assessment of surgical outcomes.

**II. Reference Materials and Texts**

20<sup>th</sup> Edition Sabiston Textbook of Surgery, Elsevier Saunders

**III. Course Objectives and Competencies**

After completing this course, the student will develop a functional knowledge of the basic surgical principles.

**IV. Course Competencies for: Surgical Basic Principles (SURG-6200)**

The student will accomplish the following competencies upon successful completion of the course in Surgical Basic Principles (SURG-6200). Successful completion is defined as receiving a pass or fail grade in SURG-6200. These competencies should be attainable by receiving a pass grade for each exam in SURG-6200.

1. The student will develop a functional knowledge of basic principles of surgery.
2. The student will examine the history of surgery.
3. The student will establish a functional set of ethics that are to be used in surgery.
4. The student will be able to identify the molecular and cellular components of the human anatomy.
5. The student will analyze the role of cytokines as mediators of inflammatory response.
6. The student will identify shock, electrolytes, fluids and their importance during the surgical procedure.
7. The student will examine the hematological principles in surgery.

8. The student will be able to recognize metabolism on surgical patients.
9. The student will be able to perform wound healing procedures.
10. The student will identify and be able to conduct critical assessments of surgical outcomes.

V. **Teaching Methods**

Lecture material will be conveyed by using computer on-line communications.

VI. **Student Evaluation**

A series of multiple choice and true or false answer examinations over lecture material will make up total course grade.

Attendance- this is an on-line course and the pace is set by each individual student.

**Grading: Pass or Fail**

VII. **Special Policies**

Special Needs

If you have special needs as addressed by the Americans with Disabilities Act and need any test or course materials provided in an alternative format, notify your instructor immediately. Reasonable efforts will be made to accommodate your special needs.

VIII. **Course Content**

**SECTION 1 SURGICAL BASIC PRINCIPLES**

Assignment 1 Chapter 1 "The Rise of Modern Surgery"

Assignment 2 Chapter 2 "Ethics and Professionalism in Surgery"

Assignment 3 Chapter 3 "The Inflammatory Response"

Exam 1

Assignment 4 Chapter 4 "Shock, Electrolytes, and Fluid"

Assignment 5 Chapter 5 "Metabolism in Surgical Patients"

Assignment 6 Chapter 6 "Wound Healing"

Exam 2

Assignment 7 Chapter 7 "Regenerative Medicine"

Assignment 8 Chapter 8 "Critically Assessing Surgical Literature"

Assignment 9 Chapter 9 "Safety in the Surgical Environment"

Exam 3