

COURSE PREFIX NO: SUR 103
COURSE TITLE: Surgical Procedures I
LECTURE HRS/WK: 2.0
LAB HRS/WK: 6.0
CREDIT HRS/SEMESTER: 4.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course is a study of a system-to-system approach to surgical procedures and relates regional anatomy, pathology, specialty equipment, and team responsibility. Patient safety, medical/legal aspects, and drugs used in surgery are emphasized. Surgical procedures discussed in this course are general, peripheral vascular, orthopedic and neurosurgery.

COURSE COMPETENCIES

MODULE 1: General Surgery

1. Define the abdominal regions
2. Describe the tissue layers of the anterior abdominal wall
3. Recognize and name specific abdominal incisions
4. Associate specific incisions with exposure to abdominal organs
5. Differentiate between types of hernias
6. Describe the operative principles of hernia repair
7. Describe the surgical anatomy of the gastrointestinal (GI) system
8. Use appropriate terminology to describe GI surgical techniques
9. Identify common open and endoscopic procedures of the GI system
10. Describe basic resection and anastomosis of the GI system
11. Identify common open and endoscopic procedures of the GI system
12. Describe basic resection and anastomosis of the GI system
13. Describe the structures of the biliary system, the liver, the pancreas, and the spleen
14. Describe the relationship between the liver and the portal vein in liver cirrhosis
15. Recognize instruments required for biliary, hepatic, pancreatic, and splenic surgery
16. Identify the need for insertion of a T-tube (biliary system)
17. Identify and describe priorities for an emergency procedure (splenectomy)
18. Describe methods of hemostasis used during liver and spleen surgery
19. Describe the structure of the breast
20. List and compare diagnostic tests for breast cancer
21. Discuss supportive communication to the patient undergoing breast surgery
22. Recognize and identify instruments and supplies required for breast surgery
23. Describe techniques used in breast surgery to remove a tissue mass
24. Describe techniques used in tissue-conserving breast surgery

MODULE 2: Orthopedic Surgical Procedures

1. Identify the major skeletal structures including bones and joints
2. Describe safety concerns when transporting and positioning the orthopedic patient

3. Describe specific patient positions used in orthopedic surgery
4. Identify common fracture types
5. Discuss the principles of open and closed fixation
6. Discuss the safe use of hand and power orthopedic equipment
7. Identify common hardware used in fracture fixation and joint replacement.
8. Describe techniques used in arthroscopic surgery
9. Identify the surgical goals of common orthopedic procedures

MODULE 3: Neuro Surgical Procedures

1. Identify important anatomical and physiological features of the central and the peripheral nervous system
2. Identify important neurological diseases and diagnostic procedures, especially those correctable by surgery
3. Discuss equipment and supplies used during neurosurgery
4. List the instrument sets used for cranial, spinal, and peripheral nerve surgery
5. Discuss the safety precautions used in preparation of the neurosurgical patient
6. Discuss positioning, skin prep, and draping used in different types of neurosurgery
7. Identify surgical techniques used during a craniotomy
8. Discuss the surgical goals of common neurosurgical procedures
9. Identify basic surgical techniques used during spinal surgery

MODULE 4: Peripheral Vascular Surgical Procedures

1. Define peripheral vascular surgery
2. Define the anatomy and the pathology of the peripheral vascular system.
3. Explain the principles of grafting in vascular surgery
4. Describe drugs used for hemostasis and coagulation during surgery
5. Discuss techniques used in peripheral vascular surgery
6. Discuss the surgical treatment of atherosclerosis

MINIMAL STANDARDS

Students must have a final average of 80% or better in lecture and a final average of 80% or better in the laboratory component of this course. If either the lecture or the lab average is below 80%, the student will **not successfully complete** this course. The student must **earn a satisfactory final grade (80% or higher)** in this course to continue in the Surgical Technology Program.

COURSE REQUIREMENTS

In order to successfully complete SUR 103, the student is required to fulfill the following requirements:

1. Complete all reading assignments prior to class sessions.
2. Successfully complete all competency-based exams, quizzes, projects and assignments with a minimum average grade of 80%.

EVALUATION STRATEGIES

Written Exams:

Each module will have a minimum of one (1) exam. All tests will be announced one (1) week prior to the exam date. The exam can be constructed with multiple choice questions, matching, fill-in-the-blank, essay (short essays) or class presentations/projects. ***If a student will be absent on the day of the exam she/he is to contact the instructor prior to class.*** If a student is not present on the day of the assigned exam, the grade for the exam will be dropped one letter grade. The student must make an appointment with the Assessment Center (981-7176) to schedule a time to complete the exam. The exam must be taken prior to the next class meeting. If a student fails to make up the exam, the student

will receive a grade of zero (0) on the exam. No exams will be returned to the student until all students have taken the exam.

Lab Competencies:

All competency skills assessments will be announced a minimum of one (1) week prior to the check-off. If a student is not present on “check-off” day, each missed competency will be dropped one letter grade. She/he must make up the missed competency(s) on a designated date set by the instructor. In the event the student fails to attend the make-up day, a grade of zero “0” will be **earned** and the student may be dismissed from the Surgical Technology Program.

GRADING PROCEDURES

Grades will be based on performance on written competency based tests, class work, projects and quizzes. Exam material will come from text book, lecture material, handouts and class discussion.

Evaluation of performance:

- Module Exams: 50%
- Class work/Homework: 20%
- Projects: 30%

College Grading Scale:

93-100	A
85-92	B
80-84	C
75-79	D
Below 75	F

- There will be an exam for each module (4). Each exam will count as 12.5% of your final grade.
- Homework for each module will count as 5% of your final grade.
- Two class projects will each count as 15% of your final grade.

ATTENDANCE

Attendance Policy:

Students are expected to attend all lecture and lab sessions of SUR 103. If an absence is unavoidable, the student must contact the instructor prior to the class and/or lab session. Failure to attend class will result in an absence. **If a student is absent more than two (2) consecutive days, a doctor's statement is required.** SUR students are responsible for explaining EACH absence.

It is the judgment and experience of the program administrators that more than **two** absences make successful satisfactory completion of course requirements very difficult. Therefore, students with more than two absences may be withdrawn from the program at the discretion of the instructor.

The student may apply to be considered for re-admission if all other grades and lab performance are satisfactory according to York Tech policy. Refer to the York Technical College Student Handbook. Students should realize the direct relationship that exists between good grades and class attendance.

Late arrivals / Early departures:

Attendance in a class meeting requires being in the classroom and prepared for class at the time the class is scheduled to begin **and** remaining in the classroom until the instructor concludes the class session. Students are expected to arrive to class meetings at or before the scheduled start time and stay for the entire class session. Three (3) late arrivals and/or early departures will equal one (1) absence.

Students are required to phone the instructor for all absences and late arrivals.

Lab attendance:

The student must attend lab as scheduled. Any time missed must be made up as soon as possible, by scheduling it with the lab instructor. If a student must be absent, the lab instructor is to be notified as

soon as possible. Students must attend lab regularly, as scheduled, as an employee would be responsible to the workplace.

ACADEMIC INTEGRITY

The policies stated in the *York Technical College Catalog & Handbook* and the *Surgical Technology handbook* will be enforced.

ENTRY LEVEL SKILLS

A student entering SUR 103 should have appropriate entrance scores for the Surgical Technology Program and the willingness to read, comprehend, and communicate effectively.

PREREQUISITES

SUR 101, SUR 102

CO-REQUISITES

SUR 104, SUR 111

SUR 130 is a co-requisite for the Surgical Technology Diploma and is not a requirement for the Central Service Certificate.

DISABILITIES STATEMENT

Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Revised Date: 01/11