

**NEOSHO COUNTY COMMUNITY COLLEGE
MASTER COURSE SYLLABUS**

COURSE IDENTIFICATION

Course Code/Number: SURG 202

Course Title: Surgical Procedures I

Division: Applied Science (AS) Liberal Arts (LA) Workforce Development (WD)
 Health Care (HC) Lifetime Learning (LL) Nursing Developmental

Credit Hour(s): 4

Effective Date: Fall 2017

Assessment Goal Per Outcome: 80%

COURSE DESCRIPTION

This is a four credit hour theory course designed to introduce the student to surgical procedures and the anatomy involved in general surgery, gynecological and obstetrical surgery, genitourinary surgery, surgery of the ear, nose, pharynx and larynx, orthopedic surgery as well as minimally invasive surgical techniques including but not limited to endoscopy and robotic surgery. Incorporating theory, laboratory and clinical practice, the student will learn to analyze, select and prepare instrumentation, equipment, and other supplies, for specific procedures within those specialties. Upon completion of this course the student will demonstrate understanding in the cognitive, psychomotor and affective learning domains related to principles and practice of surgical technology as outlined in the Core Curriculum for Surgical Technology, 6th Ed., as indicated by course exams, final exam and competency scores.

MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES

Surgical Technology Program admission, as defined by admission policy. Successful completion of SURG 101 Introduction to Surgical Technology Lab, SURG 102 Principles and Practices of Surgical Technology, and BIOL 257 & 258 Human Anatomy and Physiology Lecture and Lab. Must be enrolled in SURG 103 Principles and Practices of the Surgical Technologist Lab and SURG 106 Surgical Technology Clinical I.

TEXTS

The official list of textbooks and materials for this course is found on [myNeosho](http://www.neosho.edu/ProspectiveStudents/Registration/CourseSyllabi.aspx).

<http://www.neosho.edu/ProspectiveStudents/Registration/CourseSyllabi.aspx>

GENERAL EDUCATION OUTCOMES

- 1) Practice Responsible Citizenship through:
 - a) identifying rights and responsibilities of citizenship,
 - b) identifying how human values and perceptions affect and are affected by social diversity,
 - c) identifying and interpreting artistic expression.
- 2) Live a healthy lifestyle (physical, intellectual, social) through:
 - a) listing factors associated with a healthy lifestyle and lifetime fitness,
 - b) identifying the importance of lifetime learning,
 - c) demonstrating self-discipline, respect for others, and the ability to work collaboratively as a team.
- 3) Communicate effectively through:
 - a) developing effective written communication skills,
 - b) developing effective oral communication and listening skills.
- 4) Think analytically through:
 - a) utilizing quantitative information in problem solving,
 - b) utilizing the principles of systematic inquiry,
 - c) utilizing various information resources including technology for research and data collection.

COURSE OUTCOMES/COMPETENCIES (as Required)

1. Upon completion of this course, the student will be able to identify and discuss how the body is organized, and apply their knowledge of anatomy and physiology toward the surgical specialties studied.
2. Upon completion of this course the student will demonstrate an understanding of minimally invasive and robotics surgery as it applies to the surgical technologist's role.
3. Upon completion of this course the student will demonstrate an understanding of general surgery as it applies to the surgical technologist's role including surgical incisions.
4. Upon completion of this course the student will demonstrate an understanding of gynecological and obstetrical surgery as it applies to the surgical technologist's role.
5. Upon completion of this course the student will demonstrate an understanding of genitourinary surgery as it applies to the surgical technologist's role.
6. Upon completion of this course the student will demonstrate an understanding of ear, nose and throat surgery as it applies to the surgical technologist's role.
7. Upon completion of this course the student will demonstrate an understanding of orthopedic surgery as it applies to the surgical technologist's role.

MINIMUM COURSE CONTENT

The following topics must be included in this course. Additional topics may also be included.

1. Organization of the Human Body
 - a. Identify basic body planes and regions
 - b. Discuss the organization of the human body including directional terms, quadrants, regions, cavities and systems.
 - c. Identify systems of the body
 - i. Integumentary
 - ii. Skeletal
 - iii. Muscular
 - iv. Nervous
 - v. Endocrine
 - vi. Immune
 - vii. Sensory
 - viii. Circulatory
 - ix. Lymphatic
 - x. Respiratory
 - xi. Digestive
 - xii. Genitourinary
 - xiii. Reproductive
 - xiv. Cardiovascular
 - d. Identify anatomy involved in surgical specialties
 - e. Demonstrate knowledge of the physiology related to surgical specialties
 - f. Discuss pathophysiology as it relates to patient care by addressing disease, hemodynamic disorders, inflammation and infection and how that pertains to the patient in surgery
 - g. Discuss surgically treatable diseases and disorders
 - h. Directional Terms
 - i. Surgical Anatomic Points of Reference
 - j. Homeostasis
2. Minimally Invasive Endoscopic and Robotic-Assisted Surgery
 - a. Minimally invasive surgery
 - b. Robotic-assisted surgery
 - c. Body systems and anatomical structures affected
3. General surgery
 - a. Abdominal wall surgery
 - i. Introduction to General Surgery
 - ii. Introduction to the Abdomen
 - iii. Surgical Incisions
 - iv. Surgical Anatomy
 - v. Pathology of the abdominal wall
 - vi. Muscular system as it pertains to the abdominal wall
 - a. Medical terminology

- vii. Diagnostic procedures
 - viii. Perioperative Considerations
 - ix. Instruments and Supplies
 - x. Surgical Procedures
 - xi. Positioning, skin preparation and draping
 - b. Gastrointestinal surgery
 - i. Surgical Anatomy and Physiology of the Digestive system
 - a. Medical terminology
 - ii. Diagnostic procedures
 - iii. Techniques in Gastrointestinal surgery
 - iv. Surgical Procedures
 - v. Instrumentation and supplies
 - vi. Perioperative considerations
 - vii. Positioning, skin preparation and draping
 - c. Surgery of the Biliary System, Liver, Pancreas, and Spleen
 - i. Surgical Anatomy and Physiology
 - ii. Pathology of the Liver, Biliary System, Pancreas, and Spleen
 - iii. Diagnostic Procedures
 - iv. Perioperative Considerations
 - v. Surgical Procedures
 - vi. Instrumentation and supplies
 - vii. Positioning, skin preparation and draping
 - d. Breast Surgery
 - i. Surgical Anatomy
 - ii. Muscular system as it pertains to chest wall
 - 1. Medical terminology
 - iii. Pathology of the breast
 - 1. Tumors
 - iv. Diagnostic Procedures
 - v. Perioperative Considerations
 - vi. Surgical Procedures
 - vii. Positioning, skin preparation and draping
4. Gynecological and Obstetrical Surgery
- a. Gynecological and Reproductive Surgery
 - i. Surgical Anatomy and Physiology
 - ii. Reproductive system of females
 - 1. Medical terminology
 - iii. Endocrine system as it pertains to the appropriate anatomy
 - 1. Medical terminology
 - iv. Ovarian Cycle
 - v. Pathology of the Female Reproductive System
 - vi. Diagnostic Procedures
 - vii. Psychosocial Considerations
 - viii. Positioning, Skin Prep and Draping
 - ix. Instruments, Equipment and Supplies

- x. Perioperative considerations
 - xi. Surgical Techniques in Gynecological and Reproductive surgery
 - 1. Abdominal Procedures
 - 2. Transcervical Procedures
 - 3. Transvaginal and Vulvar Procedures
 - b. Operative Obstetrical Procedures
 - i. Stages of Pregnancy
 - ii. Complications of Pregnancy
 - iii. Diagnostic Tests
 - iv. Normal Vaginal Delivery
 - v. Obstetrical procedures
- 5. Genitourinary Surgery
 - a. Surgical Anatomy and Physiology
 - 1. Genitourinary system
 - 2. Endocrine system and the male reproductive system
 - a. Medical terminology
 - b. Pathology of the genitourinary system
 - c. Psychosocial considerations
 - d. Kidney Dialysis
 - e. Diagnostic Tests
 - f. Positioning, skin preparation and draping
 - g. Instruments and supplies for open and endoscopic procedures
 - h. Urinary Catheters
 - i. Equipment
 - j. Surgical procedures
 - 1. Abdominal procedures
 - a. Kidney, bladder, ureters, prostate, adrenal gland
 - 2. Transurethral procedures
 - a. Urethra, prostate, bladder, ureters and kidney
 - 3. External male genitalia
 - a. Penis, scrotum, testes
- 6. Surgery of the Ear, Nose, Pharynx, and Larynx (throat)
 - a. Surgical anatomy and physiology
 - a. Respiratory system
 - b. Endocrine system
 - i. Medical terminology
 - b. Pathology of the ear, nasal cavity, pharynx, larynx and the salivary and thyroid glands
 - c. Sound transmission in the Ear
 - d. Perioperative considerations
 - e. Surgical Procedures
 - f. Positioning, skin preparation and draping
- 7. Orthopedic Surgery
 - a. Surgical Anatomy and physiology
 - 1. Skeletal system
 - 2. Muscular system

3. Nervous system
- b. Joints and their types
- c. Soft connective tissue
 1. Medical terminology
- d. Pathology of the skeletal, muscular and nervous systems
 1. Fractures
- e. Diagnostic Procedures
- f. Patient Transport and Transfer
- g. Positioning, skin preparation and draping
- h. Hemostasis
- i. Infection control
- j. Orthopedic Technology
- k. Instrumentation and Supplies
- l. Surgical procedures
 1. Shoulder and Arm
 - a. Surgical approaches to the shoulder
 2. Surgical Approaches to the Shoulder
 3. Wrist and Hand
 4. Hip and Pelvis
 5. Knee and Lower Leg

STUDENT REQUIREMENTS AND METHOD OF EVALUATION

STUDENT REQUIREMENTS

- A. Grade weighting, if present, will be found on the syllabus supplement.
- B. Concurrent Policy--Lab (SURG 103), theory (SURG 202) and clinical (SURG 106) are concurrent and must all be passed to progress in the program. If any of the concurrent courses are failed, the student cannot progress in the program. The lab and clinical components are graded as pass/not pass, the theory with a letter grade of C or higher.

GRADING SCALE

On objective materials, the following scale is used:

- A = 91 - 100% Superior
- B = 83 - 90% Good
- C = 76 - 82% Average
- F = 0 - 75% Failure
- I = Incomplete
- XF = Failure due to academic dishonesty
- W = Withdrawal

Please see syllabus supplement for detailed breakdown of assignments and their weights.

ASSESSMENT OF STUDENT GAIN

The purpose of assessing student learning at Neosho County Community College is to ensure the educational purposes of the institution are met and appropriate changes are made in program development and classroom instruction to allow for student success. The instructor(s) of this course will determine the methods of assessment most appropriate and complete an assessment report at the end of the course. Post assessment to determine gain in competency will be measured at the end of each unit of study. Evaluation of student performance is determined primarily from results of examinations, skills tests, homework, and lab work. Student attendance, participation and professional growth are also considered.

Attendance Policy

- 1) NCCC values interactive learning which promotes student engagement in the learning process. To be actively engaged, the student must be present in the learning environment.
- 2) Unless students are participating in a school activity or are excused by the instructor, they are expected to attend class. If a student's absences exceed one-eighth of the total course duration, (which equates to one hundred (100) minutes per credit hour in a face-to-face class) the instructor has the right, but is not required, to withdraw a student from the course. Once the student has been dropped for excessive absences, the registrar's office will send a letter to the student, stating that he or she has been dropped. A student may petition the chief academic officer for reinstatement by submitting a letter stating valid reasons for the absences within one week of the registrar's notification. If the student is reinstated into the class, the instructor and the registrar will be notified. Please refer to the Student Handbook/Academic Policies for more information
- 3) Absences that occur due to students participating in official college activities are excused except in those cases where outside bodies, such as the State Board of Nursing, have requirements for minimum class minutes for each student. Students who are excused will be given reasonable opportunity to make up any missed work or receive substitute assignments from the instructor and should not be penalized for the absence. Proper procedure should be followed in notifying faculty in advance of the student's planned participation in the event. Ultimately it is the student's responsibility to notify the instructor in advance of the planned absence.
- 4) As per the Surgical Technology handbook: Students have one week from absence to turn in required assignments and complete missed tests. A 5% deduction will be automatically made for late assignments and tests. After one week the student may not make up assignments or tests and will be given a "0" for those assignments.

ACADEMIC INTEGRITY

NCCC expects every student to demonstrate ethical behavior with regard to academic pursuits.

Academic integrity in coursework is a specific requirement. Definitions, examples, and possible consequences for violations of Academic Integrity, as well as the appeals process, can be found in the College Catalog, Student Handbook, and/or Code of Student Conduct and Discipline.

ELECTRONIC DEVICE POLICY

Student cell phones and other personal electronic devices not being used for class activities must not be accessed during class times unless the instructor chooses to waive this policy.

NOTE

Information and statements in this document are subject to change at the discretion of NCCC. Students will be notified of changes and where to find the most current approved documents.

ACCOMMODATIONS

If you are a student with a disability who may need accommodation(s), in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, please notify the Dean of Student Services in the Student Services Office, Sanders Hall, 620-432-0304, on the Chanute Campus, or the Dean for the Ottawa and Online Campuses, 785-248-2798, on the Ottawa Campus as soon as possible. You will need to bring your documentation for review in order to determine reasonable accommodations, and then we can assist you in arranging any necessary accommodations.

NON-DISCRIMINATION POLICY

The following link provides information related to the non-discrimination policy of NCCC, including persons with disabilities. Students are urged to review this policy.

<http://www.neosho.edu/Departments/NonDiscrimination.aspx>

SEXUAL MISCONDUCT POLICY (TITLE IX)

At NCCC, it is the responsibility of an instructor to help create a safe learning environment in the classroom, including both physical and virtual classrooms. All instructors are considered mandatory reporters at NCCC, therefore any information regarding sexual misconduct that is shared by a student in one-on-one meetings with the instructor must be reported to appropriate personnel at the College. Instructors will keep the information private to the greatest extent possible, but it is not confidential. Generally, climate surveys, classroom writing assignments or discussions, human

subjects research, or events such as Take Back the Night events do not provide notice that must be reported to the Coordinator by employees, unless the reporting party clearly indicates that they wish a report to be made.

The following link provides information related to the sexual misconduct policy of NCCC, including resources, reporting options, and student rights. Students are urged to review this policy.

<http://www.neosho.edu/TitleIX.aspx>