

**NEOSHO COUNTY COMMUNITY COLLEGE  
MASTER COURSE SYLLABUS**

**COURSE IDENTIFICATION**

Course Code/Number:       SURG 103

Course Title:               Principles and Practices of Surgical Technology Lab

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

Credit Hour(s):   Three (3)

Effective Date:   Fall 2017

Assessment Goal Per Outcome: 80%

**COURSE DESCRIPTION**

This is a three credit hour laboratory course designed to expand the student's previously gained knowledge using the hands-on instruction necessary to learn the perioperative skills required to enter the clinical setting and to function as a beginning surgical technologist. This course includes supervised practice and instruction on the basic concepts necessary to establish, maintain, and coordinate tasks required for good patient care in the perioperative setting in a 9:1 or 9:2 student per instructor ratio. Students will apply aseptic technique, surgical principles and surgical conscience in learning and demonstrating the skills specific to those of the first scrub, second scrub and assistant circulator roles. 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, 6<sup>th</sup> Ed., as indicated by their final exam and competency scores.

**MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES**

Surgical Technology Program admission, as defined by admission policies. Successful completion of SURG 102 Principles and Practice of Surgical Technology and SURG 101 Introduction to Surgical Technology Lab. Must be taken concurrently with SURG 202 Principles and Practice of Surgical Technology.

**TEXTS**

The official list of textbooks and materials for this course is found on [myNeosho](#).

## **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) Pre-operative – Demonstrate ability to prepare the operating room, supplies and instrumentation, equipment and furniture, self and staff, and the patient for a surgical case.
- 2) Intraoperative- Demonstrate ability to successfully complete the tasks required for intraoperative case management.
- 3) Postoperative – Demonstrate ability to perform appropriate postoperative case management duties in an organized manner.
- 4) Assistant Circulator Role – Demonstrate ability to perform duties required as the surgical technologist in the assistant circulator role.
- 5) Disinfection and Sterilization – Perform decontamination of the OR environment and processes required for sterilization of instruments.

## **MINIMUM COURSE CONTENT**

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

1. Pre-operative – Demonstrate ability to prepare the operating room, supplies and instrumentation, equipment and furniture, self and staff, and the patient for a surgical case.
  - a. Donning OR attire
  - b. Basic hand wash
  - c. Body Mechanics
  - d. Back table
    - i. Open sterile pack

- ii. Arrange supplies and instruments
    - iii. Assemble a Balfour abdominal retractor
  - e. Open a sterile basin on ring stand
  - f. Instrument set
    - i. Open wrapped set
    - ii. Open container system
    - iii. Remove instrument set from container system
  - g. Open sterile supplies
    - i. Small wrapped package placed onto sterile field
    - ii. Small wrapped package secured by ST
    - iii. Peel pack
  - h. Pour sterile solution
  - i. Surgical scrub
  - j. Gown and glove self
  - k. Mayo stand set-up
    - i. Drape
    - ii. Arrange instruments and supplies
    - iii. Construct a sponge stick
  - l. Load and unload scalpel blade on scalpel handle
  - m. Suture and ties
    - i. Transfer suture packets to the sterile back table
    - ii. Straighten sutures
    - iii. Cut ties in  $\frac{1}{4}$ ,  $\frac{1}{3}$  and  $\frac{1}{2}$  lengths
  - n. Fill bulb syringe
  - o. Draw up medications
    - i. Vial held by circulator
    - ii. Receive medication(s) onto sterile field
    - iii. Label medications
  - p. Gown and glove another person
  - q. Demonstrate the preparation of the operating room prior to setting up a sterile field including gathering instruments, supplies, and equipment needed for a surgical procedure
  - r. Identify the use of various supplies and equipment in the perioperative environment
  - s. Drape furniture, equipment and the patient
    - i. Laparotomy
    - ii. Lithotomy
    - iii. Extremity – leg
- 2. Intraoperative- Demonstrate ability to successfully complete the tasks required for intraoperative case management.
  - a. Recognize, prepare and pass instruments

- b. Perform a sponge, sharp and instrument count
- c. Demonstrate Time Out
- d. Discuss appropriate response(s) for emergency patient situations
- e. Hemostasis - Suture, coagulation, instrumentation, drugs
  - i. Wound closure including Suture and Ties
  - ii. Load and pass needle holder swaged needle: right and left handed surgeon
  - iii. Load free needle onto needle holder; thread suture; pass and reload
  - iv. Tag and cut sutures
  - v. Pass ties: free hand; instrument
- f. Proper preparation and handling of the various tissue replacement materials and approximation devices
- g. Second scrub – suctioning, retraction, cutting suture, sponging
- h. Different abdominal incisions
- i. Preparation of supplies, equipment and instrumentation for mock surgeries of different specialties
- j. Specimen care
- k. Contaminated sterile attire
  - i. Re-glove
  - ii. Re-gown

**3. Postoperative – Demonstrate postoperative case management duties in an organized manner.**

- a. Dressings
  - i. Assemble and apply abdominal dressings
  - ii. Assemble and apply a Montgomery strap dressing
  - iii. Connect ostomy bag to stoma site
- b. Drains
  - i. Connect Hemovac
  - ii. Connect Jackson-Pratt
  - iii. Connect chest tube to chest drainage system
- c. Remove sterile gown and gloves
- d. Disinfecting OR
  - i. End of case
- e. Terminal

**4. Assistant Circulator Role – Demonstrate duties required in the assistant circulator role.**

- a. Turn and tie sterile gown
- b. Transporting patient
  - i. Prepare patient stretcher
  - ii. Transport patient from ward room to pre-op holding or OR
  - iii. Review of chart
  - iv. Patient identification
- c. Discuss wound classifications and intraoperative tasks that may be associated with each class.
- d. Transferring patient
  - i. Stretcher to OR table
  - ii. OR table to stretcher
- e. Taking vital signs
  - i. Temperature

- ii. Pulse
- iii. Respirations
- iv. Blood pressure
- f. Electrosurgery
  - i. Position grounding pad
  - ii. Connect Bovie pencil cord to ESU
  - iii. Complete ESU checklist
- g. Sellick's Maneuver – cricoid pressure
- h. Positioning patient
  - i. Supine
  - ii. Lateral
  - iii. Prone
- i. Urinary catheterization
  - i. Straight catheter - male and female
  - ii. Foley urinary catheterization – male and female
- j. Position a pneumatic tourniquet cuff – arm and leg
- k. Patient skin prep
  - i. Abdomen
  - ii. Vagina
  - iii. Extremity
- l. Connect suction
- m. Documentation
  - i. Lab requisition
  - ii. Pathology – specimen

**5. Disinfection and Sterilization – Perform decontamination of the OR environment and processes required for sterilization of instruments.**

- a. Hand wash instruments
- b. Disinfect an endoscope
- c. Assemble an instrument set
- d. Operate Sterrad Steris System
- e. Operate steam sterilizer
  - i. Flash
  - ii. Routine
- f. Packaging items for sterilization
  - i. Peel pack
  - ii. Container system
  - iii. Envelope fold wrap
  - iv. Square fold wrap

**STUDENT REQUIREMENTS AND METHOD OF EVALUATION**

**INSTRUCTIONAL METHODS**

- 1. Lectures
- 2. Discussion
- 3. Essays
- 4. Workbook Assignments

5. Handouts
6. Group Oral Presentations
7. Audio-Visual
8. Guest speakers
9. Examples and demonstration
10. Surgical Technology Review Questions - discussed
11. Unannounced requirements, including unannounced tests, possible

#### OTHER POSSIBLE INSTRUCTIONAL MEDIA

Internet, handouts, audiovisual media, textbooks, current periodicals, computer lab, on-site surgical technology lab.

#### STUDENT REQUIREMENTS

1. Clinical Readiness Exam – Skills test that examines the student’s ability to scrub, gown, glove, and set-up for a routine surgical procedure while employing strict aseptic technique. This exam determines the student’s ability to attend clinical rotation or SURG 106.
2. Lab grades will be assigned as follows: Pass (P) Not Pass (NP)
3. Pass: Satisfactory completion of 80% of all objectives
4. Not Pass: Satisfactory completion of less than 80% of all objectives
5. Weekly Formal Evaluations will be given throughout the course to inform the student of their progress. These evaluations will be based upon performance during skills check offs, the clinical readiness exam and overall performance in the lab environment. Students will be advised in an ongoing manner of evaluation of skills testing success and required improvements with recommendations on how to accomplish success.
6. The Skills Tests including the individual assessments, midterm, and Clinical Readiness Exam and Final Mock Surgery, as well as the evaluations will be used to determine the lab grade
7. Concurrent Policy--SURG 103 (lab) must be taken concurrently with SURG 202 (theory). The lab component is graded as pass/not pass. Successful completion of both courses is required for students to progress in the program. Successful completion of SURG 103 is required to enroll in SURG 106: Surgical Clinical I. If course failure occurs, student cannot progress in the program.

#### GRADE SCALE

Lab grades will be assigned as follows: Pass (P) / Not Pass (NP)

Pass: Satisfactory completion of 80% of all objectives

Not Pass: Satisfactory completion of less than 80% of all objectives

#### **ASSESSMENT OF STUDENT GAIN**

Assessment ideally begins during the advisement and enrollment process with the advisor and/or instructor interviewing the student to determine the proper level of placement. During the first two weeks of a semester, students are observed and/or interviewed and assignments are examined to determine needed competency development. 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. Class participation is 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.

### **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>

## **COURSE NOTES**

Clock Hours: 56.25