

**NEOSHO COUNTY COMMUNITY COLLEGE
MASTER COURSE SYLLABUS**

COURSE IDENTIFICATION

Course Code/Number: SURG 100

Course Title: Introduction to Surgical Technology

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

Credit Hour(s): Four (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 the broad field of surgical technology and provide a professional, ethical, and knowledgeable foundation to grow in surgical technology. It will provide the student with knowledge concerning the scope of practice of surgical technology and how to begin to function in the health care setting. 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 their final exam and competency scores.

MINIMUM REQUIREMENTS/PREREQUISITES AND/OR COREQUISITES

Students must be at least 18 years of age to enroll in SURG 100 (Introduction to Surgical Technology).

TEXTS

The official list of textbooks and materials for this course is found on *myNeosho*.

<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 fundamentals of the surgical technology profession including: certification and associated professional organizations, career options, primary tasks, responsibilities and personal attributes for success as a surgical technologist.
2. Upon completion of this course the student will be able to demonstrate an understanding of patient-centered care with the ability to identify ways of meeting the patient's needs.
3. Upon completion of this course the student will describe concepts related to death and dying including social, personal, ethical, legal and medical perspectives, and what to do if a death occurs in the operating room.
4. Upon completion of this course the student will be able to define the legal responsibilities, as well as ethical and professional standards of conduct for surgical team members.
5. Upon completion of this course the student will be able to describe a basic surgical suite including environmental systems and controls as well as other departments within the health care facility.
6. Upon completion of this course the student will demonstrate an understanding of communication techniques, group dynamics and team work as it relates to the surgical environment.
7. The student will demonstrate an understanding of microbes and the process of infection, and how that relates to the surgical patient and environment.
8. Upon completion of this course the student will be able to demonstrate an understanding of the techniques used in the operating room environment to decontaminate, sterilize and disinfect supplies, and equipment.

9. Upon completion of this course the student will be able to demonstrate the skills needed to achieve, maintain and explain the importance of a sterile environment.
10. Upon completion of this course the student will be able to identify and effectively handle basic surgical instrumentation.

MINIMUM COURSE CONTENT

- a) Fundamentals of Surgical Technology
 - a. Development of the surgical technologist
 - b. Certification and Professional Organizations
 - c. Methods of professional credentialing
 - d. Career opportunities
 - e. Duties of the surgical technologist
- b) Sterile Personnel-Including responsibilities and attire
- c) Nonsterile Personnel-Including responsibilities
 - a. Personal attributes for success as a surgical technologist
 - b. Scope of practice- Affective, responsible and accountable behavior within the role, and competencies of the surgical technologist
- d) Patient Centered Care
- e) Patient-centered care vs. outcome oriented care
- f) Maslow's Hierarchy of basic human needs
- g) Physiological, psychological, spiritual and environmental patient and family needs
- h) Therapeutic communication techniques
- i) Cultural competence
- j) Special patient populations including, pediatrics, elderly, impaired and high risk surgical patients and the biopsychosocial needs of all patients and their significant others
- k) Death and Dying
 - a. Defining death and end of life
 - b. Kubler-Ross model
 - c. Providing comfort and support to the dying patient
 - d. Understanding conflicts and stress of families during the dying period
 - e. Ethical issues surrounding death and dying
 - f. Determining death in the OR
 - g. Physical changes after death
 - h. Post mortem care
 - i. Organ donation and procurement
 - j. Support for health care workers
- l) Law and Ethics
 - a. Legal issues and terms, aspects and documentation as they relate to surgical technologists and other surgical team members
 - b. Ethical and moral issues – Develop surgical conscience by analyzing the role of morality during ethical decision making
 - c. Pre-op patient preparation including proper patient identification as well as chart review and consent forms

- m) Healthcare Facility
 - a. Perioperative Environment
 - b. Perioperative Staff
 - i. Professional Management
 - c. Safety – Describe environmental safety controls and guidelines including potential hazards to the surgical patient, including risk management and liability
- n) Communication and Teamwork
 - a. Factors related to stress and methods to cope with it – discuss the components of physical and mental health and the effects of stress on various body systems
- o) Microbes and the Process of Infection
 - a. Microorganisms and the causes and prevention of infection
 - i. Introduction to Microscopy
 - ii. Staining methods
 - iii. Culture media
 - iv. Nomenclature of Microbiology
 - b. Immunologic defense mechanisms including hypersensitivity and inflammation
- p) Decontamination, Disinfection, and Sterilization
 - a. The operation of central supply area and decontamination, disinfection, reprocessing and sterilization, as well as sterile storage, distribution and postoperative case management
- q) Aseptic Technique
 - a. Aseptic technique –Including asepsis, sterile technique, preparation and monitoring of the sterile field, environment, surgical environment and surgical conscience
 - b. Evidence-based practice
 - c. Surgical attire including gowning and gloving techniques
 - d. Surgical hand rub/scrub
 - e. Opening a sterile case, creating and maintaining a sterile environment
- r) Surgical Instrumentation
 - a. Classification
 - b. Usage and tissue types
 - c. Handling
 - d. Responsibility of the Surgical Technologist

STUDENT REQUIREMENTS AND METHOD OF EVALUATION

INSTRUCTIONAL METHODS

1. Lecture
2. Lab/Competencies
3. Discussion
4. Essays
5. Textbooks/Workbooks
6. Handouts
7. Group projects
8. Audio-visual

9. Debates
10. Computer programs
11. Guest speakers
12. Site visits

OTHER POSSIBLE INSTRUCTIONAL MEDIA

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

STUDENT REQUIREMENTS

Grade weighting, if present, will be found on syllabus supplement.

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

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.

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: 50