

SUR101 Introduction to Surgical Technology

Course Description

This course includes a study of the surgical environment, team concepts, aseptic technique, hospital organization, basic control, and wound healing. Prerequisites: Acceptance into the surgical technology program
3 Lec. 6 Lab 5 Cr.

Course Focus

This course includes a study of the surgical environment, team concepts, aseptic technique, hospital organization, basic instrumentation and supplies, sterilization, principles of infection control, and wound healing.

Text and References

No Purchase Necessary. Beginning Fall 2021, TCL implemented a new textbook model called First Day Complete (FDC). With FDC, a per credit hour book fee was added to your tuition at the time of registration. Please check your **new** TCL email account where you have been sent a link to reserve your books with the TCL College Store. Refer to this link for all details concerning FDC <https://www.tcl.edu/first-day-complete-textbook-program/>

1. Surgical Technology for the Surgical Technologist, A Positive Care Approach, AST 5th Edition
2. Surgical Instrumentation, An Interactive Approach, Nemitz, 3rd Edition
3. Surgical Equipment and Supplies, 2nd Edition, Rutherford.
4. Operating Room Skills, Fundamentals for the Surgical Technologist, 2nd Edition, Pearson/Dankanich

PPE Requirements

Until further notice, there is a mask mandate in place indoors at TCL. Failure to adhere to the mask requirement will result in the following:

- First Offense: Verbal Warning
- Second Offense: You will be asked to leave class with an absence for that day.
- Third Offense: You will be asked to leave class and must meet with Associate Vice President Rodney Adams in Building 2 room 203 prior to returning to class.

In addition, all students will be required to wear PPE as deemed appropriate and necessary per clinical facility for the duration of the clinical experience. Students may also be required to wear additional PPE while participating in “on campus” lab activities to provide an environment that is representative of the program’s clinical facilities. Failure to adhere to this mandate will render the student ineligible to participate in clinical rotations or “on campus” activities, and therefore unable to progress in the program.

Course Outcomes

1. Demonstrate the principles of communication in the surgical setting.
2. Trace the historical development of surgical technology.
3. Recognize members of the surgical team and their roles.
4. Describe the surgical technology professional organizations: AST, ARC/STSA, NBSTSA.
5. Compare and contrast the various roles of the surgical technologist.
6. Interpret the components of a job description for the surgical technologist.
7. Analyze the components of effective teamwork and communication.
8. Discuss the meaning of *surgical conscience* and its application to surgical technology.
9. Summarize the different types of health care facilities.
10. Analyze a typical hospital organizational structure.
11. Classify hospital departments and their relationship to surgical services.
12. Analyze the legal concepts that pertain to surgical technology.
13. Interpret the legal responsibilities of the certified surgical technologist and other surgical team members.
14. Compare and contrast criminal and civil liabilities and the consequences of these acts.
15. Analyze the American Hospital Association’s Patient Care Partnership.

16. Describe the need for professional liability insurance policies.
17. Analyze the key elements related to the development of a surgical conscience.
18. Assess the resources available to the certified surgical technologist to interpret and follow professional standards of conduct.
19. Develop an increased sensitivity to the influence of ethics in professional practice.
20. Assess the patient's response to illness and hospitalization.
21. Demonstrate awareness that all surgical patients have the right to the highest standards and practices in asepsis.
22. Distinguish and assess the physical, spiritual, and psychological needs of a patient.
23. Distinguish and assess cultural and religious influences of the surgical patient.
24. Compare and contrast the patient's responses to the process of death.
25. Discuss the procedure for a patient death in the operating room (OR).
26. Compare and contrast the surgical care considerations for pediatric patients and patients who are obese, diabetic, pregnant, immunocompromised, disabled, or geriatric, as well as for trauma patients.
27. Evaluate the unique physical and psychological needs of each special population.
28. Compare and contrast the intraoperative considerations for pediatric patients, trauma patients, and patients who are obese, diabetic, immunocompromised, or geriatric that relate to postoperative wound healing.
29. Evaluate the role of the CST for the surgical care of each special population.
30. Assess the ethical commitment that is required of CSTs as it relates to special populations care.
31. Determine the general needs associated with special populations of surgical patients.
32. Explain the relationship between instrumentation, equipment, and supplies and quality patient care in the operating room (OR).
33. Explain the relationship between instruments, equipment, and supplies and the OR environment with safety concepts.
34. Indicate items that require sterilization prior to use in the sterile field.
35. Recognize basic instruments by type, function, and name.
36. Demonstrate proper care, handling, and assembly of instruments.
37. Differentiate the types of special equipment utilized in OR practice and demonstrate proper care, handling techniques, and safety precautions.
38. Cite the names and functions of accessory equipment and demonstrate proper care, handling, and assembly.
39. Collect and prepare supplies used in the OR.
40. Compare and contrast methods of hemostasis and blood replacement.
41. Demonstrate the preparation and use of appropriate hemostatic agents or devices.
42. Indicate terms relevant to wound healing.
43. Summarize the possible complications of wound healing.
44. Recognize the classifications of surgical wounds.
45. Indicate types of traumatic wounds and give examples of each.
46. Analyze the factors that influence healing and how they affect the healing process.
47. Recognize the characteristics of inflammation.
48. Cite and interpret common suture terms.
49. Classify and differentiate the usage of suture materials and stapling devices.
50. Recognize the types, characteristics, and uses of suture materials.
51. Demonstrate application of recommended preparation and handling techniques for suturing and stapling devices.
52. Cite and interpret common suture techniques.
53. Summarize the basic uses and advantages of stapling instruments.
54. Demonstrate proper handling of the various types of surgical needles.
55. Assess the types of injuries that cause damage to tissues.
56. Recognize the characteristics of the types of healing.
57. Recognize the stages/phases of wound healing.

Student Contributions

Classes are designed to employ a variety of teaching techniques. In order to maximize learning, required readings and Web enhanced sections are to be done prior to class. If a student is falling behind in clinical performance and/or academic achievement, it is imperative to seek immediate assistance from the instructor.

Course Evaluation

6 Unit Tests	40%
6 Quizzes	20%
Comprehensive Final Exam	20%
Lab Final	<u>20%</u>
	100%

Assessment tests are given to assist in the evaluation of individual student progress and to support student success. The dates for completion of these tests are posted on the course calendar. Students who do not achieve the required scores must meet with the course coordinator and/or clinical instructor and complete the prescribed remediation. The date for completion of remediation, when required, is due prior to the final exam. Failure to complete the testing or required remediation by the dates indicated above will result in a grade of **Incomplete** ("I") for the course and non-progression in the surgical technology curriculum. Students having difficulty with either the tests or remediation components of this course must speak personally with the course coordinator three (3) business days or more in advance of the published due dates. Refer to clinical notebook for detailed summary of Laboratory Competency Assessment requirements.

ADA Statement

The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

Attendance

The College's statement of policy indicates that students must attend **ninety percent** of total class hours or they will be in violation of the attendance policy.

1. Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
2. Students taking an online/internet class must sign in **and** communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students not attending class during the first ten calendar days from the start of the semester be dropped from the class for NOT ATTENDING. Also, for any online course, or component of a course, students are required to log into the course (at least once per week) and complete the required assignments to meet attendance requirements.
3. Reinstatement requires the signature of the Division Dean.
 - a. In the event it becomes necessary for a student to withdraw from the course ***OR if a student stops attending class, it is the student's responsibility to initiate and complete the necessary paperwork.*** Withdrawing from class may have consequences associated with financial aid and time to completion. Students are strongly encouraged to consult with Financial Aid prior to withdrawing from any class, particularly if the student is currently on a warning or probation status.
 - b. When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor **MUST** withdrawal the student with a grade of "W", "WP", or "WF" depending on the date the student exceeded the allowed absences and the student's progress up to the last date of attendance

Or

- c. Under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.
 - d. Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.
4. A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.
 5. Students are expected to be in class *on time*. Arrival to class after the scheduled start time or leaving class prior to dismissal counts as a tardy. Three tardies and/or early departures are considered as one absence unless stated otherwise.
 6. It is the student's responsibility to sign the roll/verify attendance with instructor upon entering the classroom. Failure to sign the roll/verify attendance results in a recorded absence. In the event of tardiness, it is the student's responsibility to insure that attendance is marked. **The student is responsible** for all material/ announcements presented, whether present or absent.
 7. Students are **never** to send a message with another student in the event of an absence.
 8. **Any pregnancy must be declared in writing to the program director**. See Student Handbook for additional information regarding pregnancy.
 9. Continuity of classroom and laboratory (which includes clinical experiences) is essential to the student's progress in providing safe and competent patient care. Students are expected to use appropriate judgment for participating in clinical activities. To evaluate the student's knowledge and skills, it is necessary for the student to be present for all clinical experiences. If absence does occur, the designated clinical site and Surgical Technology instructor, must be notified by telephone no later than 30 minutes prior to the start of the clinical experience. If the instructor cannot be reached, call the Health Science office and leave a message. **The Division of Health Sciences telephone number is 843-525-8267.**

A copy of TCL's STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

Communication

All communication will be done via TCL email or phone (no text messaging) during normal office hours. Any communication from an instructor will require acknowledgement of receipt.

Hazardous Weather

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. To sign up for text alert follow the prompts at: www.tcl.regroup.com/signup

Academic Misconduct

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship. It is the student's responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the *TCL Student Handbook*, the Division Office, and the Learning Resources Center.

Health care professionals hold the public trust. Academic misconduct by health science students calls that trust into question and academic integrity is expected. Academic misconduct may result in withdrawal for related health science courses. Also, depending on the severity of the student's academic misconduct, the student will not only be withdrawn from the program, but will not be allowed for re-entry and/or reapplication to **all** Health Science programs. It is a fundamental requirement that any work presented by students will be their own.

***All students are required to remove hats and ALL watches of any kind during exams and quizzes and place them in the front of the classroom with personal belongings and electronics.**

***During on campus examinations, only answers transferred and completed on Scantron sheets will be graded electronically to count towards the test score.**

Clinical assignments, worksheets, and course reviews may be available on the Blackboard platform for student completion and review. If an online review is given, TCL utilizes the online test proctoring service **Honorlock**. Each student must meet the requirements for Honorlock to complete any online clinical assignments and/or course reviews.

- Honorlock Online Proctoring and Technology Requirements
TCL uses an online test proctoring service called Honorlock to monitor some online tests as an alternative to in-person proctoring. Your instructor may elect to have some of your tests proctored using Honorlock. If so, you will need to make sure that you have access to the necessary equipment to take your online-proctored tests:
 - A computer with access to a high-speed Internet connection
 - The ability to install the Honorlock extension on Google Chrome.
 - A webcam and microphone. A functioning webcam and microphone are required to complete proctored online tests.
 - Microsoft Office. Microsoft Office can be downloaded for free by accessing the Office 365 link in your TCL email account.

It is a fundamental requirement that any work presented by students will be their own. Examples of academic misconduct include (but are not limited to):

1. Copying the work of another student or allowing another student to copy working papers, printed output, electronic files, quizzes, tests, or assignments.
2. Completing the work of another student or allowing another student to complete or contribute to working papers, printed output, electronic files, quizzes, tests, or assignments.
3. Viewing another student's computer screen during a quiz or examinations.
4. Talking or communicating with another student during a test.
5. Violating procedures prescribed by the instructor to protect the integrity of a quiz, test, or assignment.
6. Plagiarism in any form, including, but not limited to: copying/pasting from a website, textbook, previously submitted student work, or any instructor-prepared class material; obvious violation of any copyright-protected materials.
7. Knowingly aiding a person involved in academic misconduct.
8. Providing false information to staff and/or faculty.
9. Entering an office unaccompanied by faculty or staff.
10. Misuse of electronic devices.

Student Accountability/Clinical Education Rotations

Students in the ST program must be eligible to complete their clinical education rotations at any available clinical site. During clinical education rotations, each student is a representative of the TCL ST program. As such, students must comply with all TCL and ST program policies when participating in clinical education. In addition, when students are at a clinical site, every effort will be made to ensure that students receive a fair and equitable learning experience and students are responsible for abiding by all policies and procedures of that clinical site.

Grading Policy

Grading Scale	
93% - 100% A	W withdraw
85% - 92% B	WP withdraw with passing grade
78% - 84% C	WF withdraw with failing grade
70% - 77% D	I Incomplete
Below 70% F	

Grading Methodology

1. The final grade must be 78.00 or more in order to pass the course and progress in the program.
2. If a student is passing the didactic portion of the class but fails to achieve a "78" or higher in the lab practicum after two averaged attempts the student will receive an "F" in the class.
3. Students absent from an examination or presentation will receive a "0" grade for the examination unless other arrangements are made with the individual instructor prior to the examination or presentation day or on the examination or presentation day before the test/presentation is scheduled to be given.
4. It is the responsibility of the student to contact the appropriate instructor to arrange to make up the examination. Arrangements may be completed by telephone. If the instructor is not available, a message should be left on the instructor's voice mail AND with another member of the faculty or administrative assistant.
5. The instructor will decide the time and method of make-up examinations on an individual basis.
6. Messages sent by other students are unacceptable.
7. The student is responsible for notifying the instructor for the reason of the absence. Grades are posted on Blackboard within one week of administration of tests and examinations.

Course Policies/Procedures

1. It is clearly to the advantage of the student to attend class regularly. Test materials are weighted heavily in favor of lecture materials.
2. **All cell phones and pagers must be turned off during class (lecture and laboratory periods).** No pagers or phones are allowed in the clinical area. No exceptions are made to this rule.
***All students are required to remove ALL watches of any kind during exams and quizzes.**
3. Students are held accountable for content in the **Surgical Technology** program student handbook <http://www.tcl.edu/pdf/2018-2019>
4. Any student disrupting class will be removed by the instructor.
5. No course grades are posted in public areas. Grades are available through TCL's Self-Serve. The student must go to the college's website www.tcl.edu select TCL Self-Serve/grades. For questions, contact the TCL Help Desk at 525-8344.

SYLLABUS SAFETY ADDENDUM

Purpose:

The purpose of this safety addendum is to provide each student with safety guidelines during an incident, emergency, or disaster at TCL. In addition, it provides students guidelines for lockdown procedures, evacuation procedures, and active shooter.

Definitions:

An incident is any event, potential or actual, that may impact normal operations but has no immediate health or life-threatening consideration or serious effect on the overall functional capacity of the College. An event of this nature should be reported to the Office of the Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

An emergency is any incident, potential or actual, which may endanger life or health or which affects an entire building or buildings, and will disrupt the overall operations of the College. Outside emergency services will probably be required, as well as major efforts from campus support services. Major policy considerations and decisions will usually be required from the college administration during times of crises. An emergency should be reported immediately by directly using **911** if life or health/injury considerations exist and then to the Office of the President or Vice President for Administrative Services as quickly as possible. Also notify the off-site campus administrator if applicable.

A disaster is any event or occurrence that has taken place and has seriously impaired or halted the operations of the College. In some cases, mass personnel casualties and severe property damage may be sustained. A coordinated effort of all campus-wide resources is required to effectively control the situation. Outside emergency services will be essential. In all cases of disaster, an Emergency Control Center will be activated, and the appropriate support and operational plans will be executed. The disaster should be immediately reported, first by calling **911** and then to the Office of the President or Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

➤ **Types of Emergencies:**

- Hurricane
- Tornado
- Fire
- Biochemical or Radiation Spill
- Explosion/Bomb
- Downed Aircraft (crash which directly impacts campus operations)
- Utility Failures
- Violent or criminal behavior
- Psychological Crisis

Procedures

Active Shooter:

Run—Hide—Fight Video

<http://www.fbi.gov/about-us/cirg/active-shooter-and-mass-casualty-incidents/run-hide-fight-video>

Building Evacuation:

1. Building evacuations occur when an alarm sounds and/or upon notification by Security or the Emergency Director.
2. When the building evacuation alarm is activated during an emergency, individuals should exit according to the building evacuation plan and alert others to do the same.
3. Once outside, individuals should proceed to a clear area that is at least 500 feet away from the affected building. Streets, fire lanes, hydrant areas and walkways should be kept clear for emergency vehicles and personnel.
4. Individuals should not return to an evacuated building unless told to do so by Security or the Emergency Director.
5. Individuals should assist persons with disabilities in exiting the building. Elevators are reserved for disabled persons

Campus Evacuation:

1. A uniformed Security Guard, the Emergency Director, or an Emergency Resource Team member will announce evacuation of all or part of the campus grounds.
2. All persons (students and staff) are to immediately vacate the campus, or in the case of a partial evacuation relocate to another part of the campus grounds as directed.

Lockdown:

1. Clear the halls
2. Report to the nearest classroom/office
3. Assist those needing special assistance
4. Ensure classroom/office doors are closed and locked
5. Turn off lights
6. Stay away from doors and windows (out of the line of sight)
7. BE QUIET and follow instructor's directions
8. Silence cell phones
9. Wait for the "All Clear" before leaving