



SRGT-1509
Fundamentals of Perioperative Concepts and Techniques
Fall 2025
9:00AM to 1:00PM Tuesdays and Thursdays.

Instructor Information:

- Lydia Wardell
- Lwardell@com.edu
- Office Phone: 409-933-8199

Office hours and location:

- Hours- 2:00pm to 5:00pm
- Office location: STEAM 225-42; Building 22
- Classroom location: STEAM Room 235, 2nd floor
- Lab location: STEAM Room 220, 2nd floor

Required Textbook/Materials:

- Rothrock, Jane; Alexander, Sherry. (2023). *Alexander's Care of the Patient in Surgery*. Elsevier 17th Edition.
- Nemitz, R. (2023). *Surgical Instrumentation: An Interactive Approach*. Elsevier, 4th Edition.
- Howe, Tiffany and Burton, Angela. (2025). *Pharmacology for the Surgical Technologist*. Elsevier 6th Edition.

Course Description:

This course is designed to demonstrate principles and practices of aseptic techniques while explaining infectious processes and concepts of wound healing; and create and maintain a sterile field utilizing basic case preparation and procedures. Students will learn the different types of sutures, needles and staplers used during surgery as well as the steps in wound healing and complications. Students will learn to classify surgical instruments.

Course requirements:

- Attend all classes.
- Complete all exams and assignments.
- Participate in class activities and labs.
- Participate in group activities.

- **Brightspace D2L:**

We will be using Brightspace D2L for this course, so you will need access to a computer and the Internet. There is also a **mobile-friendly** app and can be used on your phone or tablet through the or a mobile browser!

- **Computers:**

You will need a computer with audio and video capabilities. Exams may be given online and require a webcam and microphone. Most of the tests will be in person, but there may be times you are asked to take a proctored exam remotely. You may take your exams on campus, and computers are in the library and tutoring center. See the student handbook for additional requirements. [COM Surgical Technology Handbook 2025.pdf](#)

Determination of Course Grade/Detailed Grading Formula:

The Surgical Technology program utilizes this course grading scale:

- 90-100% = A
- 80-89% = B
- 75-79% = C
- 65-74% = D
- 64% or below = F

Note: A minimum passing grade of C or 75% is required for successful completion of the course.

Late Work, Make-Up, and Extra-Credit Policy:

Late assignments are not accepted for any course in the Surgical Technology Program. Students are responsible for completing all assignments and are responsible for any course content missed by absence or tardiness. Extra credit projects will be at the discretion of the instructor and the student will be informed of those assignments that will fall under the extra credit category.

Attendance Policy:

Students must attend and participate in every session of all classes for which they are registered. Regular attendance is a critical component to being successful in courses. Students should consult their instructors when it is necessary to miss a class beforehand. COM (College of the Mainland) recognizes no excused absences other than those prescribed by law: religious holy days and military service. Students are expected to attend all didactic and lab classes.

Excessive absences (including arriving late and leaving early) prevents the student from meeting the objectives of the course and the Program. If a student is absent, they must contact the faculty before the start of class and explain the situation. A student who misses more than two (2) class periods will be given a written warning for excessive absences. A student who misses three (3) or more class periods is considered unable to complete the program objectives and can be removed from the class by an instructor-initiated withdrawal.

A student not in class at the given start time will be considered tardy. A student over ten (10) minutes late may be refused entry into the class for that period at the instructor's discretion. Entering class late or leaving early disrupts the class and is disrespectful to faculty and peers. Class activities missed during the absence may not be made up. Excessive tardiness will result in remediation. A student who cannot successfully complete a remediation plan due to excessive tardiness, can be removed from the class by an instructor-initiated withdrawal.

Extenuating Circumstances can be discussed with Program faculty.

Communicating with your instructor:

- ALL electronic communication with the instructor must be through your COM (College of the Mainland) email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. (Faculty may add additional statement requiring monitoring and communication expectations via D2L or other LMS)
- The best way to reach your instructor is to email me at lawardell@com.edu will respond to emails within two days of receiving them.
- However, if you need to contact me immediately, please feel free to contact me by calling 409- 933- 8199.

Outcomes and Objectives Mapping

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
Identify the physical environment and safety standards the surgical technologists will encounter in the work environment.	Apply the knowledge and skills to be a clinically competent entry-level surgical technologist. Students will demonstrate independent critical thinking and problem-solving skills	Quizzes, Final Exams, and Skills Assessments
Define the history, function, characteristics, and work environment of the surgical technologist and the field of surgical technology.	Apply the knowledge and skills to be a clinically competent entry-level surgical technologist. Students will demonstrate independent critical thinking and problem-solving skills	Quizzes, Final Exams, and Skills Assessments
Define the laws and ethics involved in functioning in a health care facility.	Apply the knowledge and skills to be a clinically competent entry-level surgical technologist. Students will demonstrate independent critical thinking and problem-solving skills	Quizzes, Final Exams, and Skills Assessments
Describe the standards of conduct required of the surgical technologist.	Apply the knowledge and skills to be a clinically competent entry-level surgical technologist.	Quizzes, Final Exams, and Skills Assessments

	Students will demonstrate independent critical thinking and problem-solving skills	
Describe the relationship between the surgical technologist and the patient, including the patient's needs.	<p>Apply the knowledge and skills to be a clinically competent entry-level surgical technologist.</p> <p>Students will demonstrate independent critical thinking and problem-solving skills</p>	Quizzes, Final Exams, and Skills Assessments
Identify hazard preparation, planning, detection and communication, incident management and support systems.	<p>Apply the knowledge and skills to be a clinically competent entry-level surgical technologist.</p> <p>Students will demonstrate independent critical thinking and problem-solving skills</p>	Quizzes, Final Exams, and Skills Assessments

Academic Dishonesty:

Any academic policy incident will be dealt with in line with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on the exam and the student will be referred to the Office of Student Conduct for appropriate discipline action. <http://www.com.edu/student-services/student-handbook.php>

Plagiarism Statement

Plagiarism is using someone else's words or ideas and claiming them as your own. Plagiarism is a very serious offense. Plagiarism includes paraphrasing someone else's words without giving proper citation, copying directly from a website, and pasting it into your paper, using someone else's words without quotation marks. Any assignment containing plagiarized material will receive zero, and the student will be referred to the Office of Student Conduct for appropriate discipline action. Links to resources about avoiding plagiarism:

- [Purdue OWL](#)
- [Excelsior OWL](#)
- [YouTube UMass Dartmouth](#)

Student Services

- [Counseling](#)
Counseling Services offers free academic and personal counseling. Workshops and individual sessions are available to assist students in recognizing and resolving academic and personal concerns. Students who may need assistance with goal setting, problem

solving, study skills, motivation, or communicating effectively are encouraged to access services in the Student Success Center located on the first floor of the Doyle Family Administration Building.

- [Tutoring](#)

Tutoring is available for Math, Science, and writing and is available face-to-face, online, or by e-Tutoring sessions.

- [Disability Services](#)

Accommodation is available to COM students with documented disabilities. To request accommodations, contact the Office for Students with Disabilities, located in the Student Success Center on the first floor of the Doyle Family Administration Building.

- [COM Library Radiologic Technology Page](#)

COM Library staff have created a webpage of resources, just for you.

- [Library](#)

The library hosts a variety of resources for students, including books, journals, and learning material. The library also hosts a computer lab accessible to students.

- [Trio-Student Support Services](#)

TRIO-Student Support Services (TRIO-SSS) is a federally funded grant program through the U.S. Department of Education that provides support for students in meeting their academic, personal, career and other education-related goals.

Classroom Conduct Policy statement:

The goal is that policies and procedures are enforced in a consistent and just manner. High ethical standards help ensure that the rights of students, faculty, and staff are protected. These policies are to be fair, equitable, and consistently applied, with the goal of promoting professionalism.

Please refer to the COM Surgical Technology program handbook for classroom and clinical facility conduct expectations

Student Concerns:

If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Dr. Rebecca Montz and Dean of Instruction at 409-933-8948 or by rmontz@com.edu.

Course outline: Please see the LMS for specific assignments and dates.

<p>Week 1 Date: 8/22/2025</p>	<p>Lesson Overview: Read: Fuller- <i>Surgical Technology Principles and Practice.</i> Chapter 8- Microbes and the Process of Infection Chapter 9- Sterile Technique and Infection Control Chapter 11- Surgical Instruments Chapter 12- Perioperative Pharmacology Chapter 18- Surgical Skills I: Planning A Case, Opening, and Start of Surgery</p> <hr/> <p>Read: Howe & Burton, <i>Pharmacology for the Surgical Technologist</i> Chapter 1 – Basic Pharmacology Chapter 2- Medication Development, Regulation, and Resources</p> <p>Read: Alexander- <i>Care of the Patient in Surgery</i> Chapter 4- Infection Prevention and Control</p> <p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> • Surgical Attire- don mask, shoe covers, hat, and surgical scrubs • Protective Eyewear and Face Shields • Damp-dust lights and other furniture. • Routine Hand Washing • Organize room by arranging furniture and equipment. • Check function of basic and specialty equipment • Check surgeons' preference card. • Place packs on appropriate technique. • Open packs using aseptic technique. • Dispense supplies to sterile field. <hr/> <p>Skills Assessment/Activity: Chapter 12- Perioperative Pharmacology</p> <ul style="list-style-type: none"> • List the sources of drugs. • Explain different drug resources available. • Discuss the importance of drug regulation. • How are drugs named and formulated? • Identify and interpret components of a drug label. • How can we prevent drug errors? 	<p>Assignments: Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 8 & Chapter 9 & Chapter 18 Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 8 & Chapter 9 & Chapter 18 Workbook.</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 11 Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice, Chapter 11 Workbook.</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice, Chapter 12 Review Questions and Case Studies</i></p> <p>Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 12 Workbook.</p> <hr/> <p>Alexander- <i>Care of the Patient in Surgery, Chapter 4 Critical Thinking Question</i></p> <hr/> <p>Howe & Burton- <i>Pharmacology for the Surgical Technologist</i> Chapter 1 & Chapter 2 Review Questions and Case Studies.</p> <hr/> <p>CST- <i>Surgical Technology Exam Review</i> Chapter 4- Review Questions</p>
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	<ul style="list-style-type: none"> List and use the seven rights of the medication process. What are elements of a prescription and how are drugs ordered? <hr/> <p>Instrument Book: <i>Nemitz, Surgical Instrumentation: An Interactive Approach.</i> Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> Identifying and Classifying Surgical Instruments Surgical Instrumentation Inspection, Design, and Finishes 	
Week 2 Date: 8/29/2025	<p>Lesson Overview: Read: Alexander- <i>Care of the Patient in Surgery</i> Chapter 4- Infection Prevention and Control</p> <hr/> <p>Read: Fuller- <i>Surgical Technology Principles and Practice.</i> Chapter 8- Microbes and the Process of Infection Chapter 9- Sterile Technique and Infection Control Chapter 11- Surgical Instruments Chapter 12- Perioperative Pharmacology Chapter 18- Surgical Skills I: Planning A Case, Opening, and Start of Surgery</p> <hr/> <p>Read: Howe & Burton, <i>Pharmacology for the Surgical Technologist</i> Chapter 1 – Basic Pharmacology Chapter 2- Medication Development, Regulation, and Resources</p> <hr/> <p>Instrument Book: <i>Nemitz, Surgical Instrumentation: An Interactive Approach.</i> Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> Identifying and Classifying Surgical Instruments Surgical Instrumentation Inspection, Design, and Finishes 	<p>Assignments: Alexander- <i>Care of the Patient in Surgery- Chapter 4 Critical Thinking Question</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice,</i> Chapter 8 & Chapter 9 Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice,</i> Chapter 8 & Chapter 9 Workbook.</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice,</i> Chapter 11 Review Questions and Case Studies</p> <p>Fuller, <i>Surgical Technology Principles and Practice,</i> Chapter 11 Workbook.</p> <hr/> <p>Fuller, <i>Surgical Technology Principles and Practice,</i> Chapter 12 Review Questions and Case Studies</p> <p>Fuller, <i>Surgical Technology Principles and Practice,</i> Chapter 12 Workbook.</p> <hr/> <p>Howe & Burton, <i>Pharmacology for the Surgical Technologist</i></p>

	<p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> • Surgical Attire- don mask, shoe covers, hat, and surgical scrubs • Protective Eyewear and Face Shields • Damp-dust lights and other furniture. • Routine Hand Washing • Organize room by arranging furniture and equipment. • Check function of basic and specialty equipment • Check surgeons' preference card. • Place packs on appropriate technique. • Open packs using aseptic technique. • Dispense supplies to sterile field. <hr/> <p>Term Paper: Chapter 9:</p> <ul style="list-style-type: none"> • Differences between sterile, nonsterile, surgically clean, and aseptic techniques. • A one (1) page paper on the various surgical hand scrub agents, their protection, bactericidal effects, toxicity, and additional comments. 	<p>Chapter 1 & Chapter 2 Review Questions and Case Studies.</p> <hr/> <p><i>CST- Surgical Technology Exam Review</i> Chapter 4- Surgical Case Management: Surgical Microbiology and Wound Management, <i>Review Questions.</i></p>
<p>Week 3 Date: 9/5/2025</p>	<p>Lesson Overview: Read: <i>Alexander- Care of the Patient in Surgery</i> Chapter 4- Infection Prevention and Control</p> <hr/> <p>Read: Fuller- <i>Surgical Technology Principles and Practice.</i> Chapter 8- Microbes and the Process of Infection Chapter 9- Sterile Technique and Infection Control Chapter 11- Surgical Instruments Chapter 12- Perioperative Pharmacology</p> <hr/> <p>Read: Howe & Burton- <i>Pharmacology for the Surgical Technologist</i> Chapter 1 – Basic Pharmacology Chapter 2- Medication Development, Regulation, and Resources</p> <hr/> <p>Instrument Book:</p>	<p>Assignments: Alexander- <i>Care of the Patient in Surgery</i>, Chapter 4 Critical Thinking Question</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 8 & Chapter 9 <i>Review Questions and Case Studies</i></p> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 8 & Chapter 9 <i>Workbook.</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 11- <i>Review Questions and Case Studies</i></p> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 11- <i>Workbook.</i></p>

	<p><i>Nemitz, Surgical Instrumentation: An Interactive Approach.</i></p> <p>Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> Identifying and Classifying Surgical Instruments Surgical Instrumentation Inspection, Design, and Finishes <hr/> <p>Skills Assessment/Activity: Chapter 9:</p> <ul style="list-style-type: none"> Sterile Technique and Infection Control Surgical Hand Scrub- timed & counted. Surgical Hand Rub Aseptic Technique Dry your hands and arms using an aseptic technique. Gloving (open glove and closed glove). Gowning and Gloving (self and others) Removing gown and gloves 	<p>Fuller- Surgical Technology Principles and Practice, Chapter 12 - Perioperative Pharmacology- Review Questions and Case Studies</p> <p>Fuller- Surgical Technology Principles and Practice, Chapter 12- Perioperative Pharmacology Workbook.</p> <hr/> <p>Howe & Burton- Pharmacology for the Surgical Technologist Chapter 1 & Chapter 2 Review Questions and Case Studies.</p> <hr/> <p><i>CST- Surgical Technology Exam Review</i> Chapter 4- Surgical Case Management: Surgical Microbiology and Wound Management, Review Questions.</p> <hr/> <p>Term Paper: Chapter 9:</p> <ul style="list-style-type: none"> What surgical conscience means to you and how your practice as a surgical technologist will or should be influenced by a “Surgical Conscience.” Differences between sterile, nonsterile, surgically clean, and aseptic techniques.
<p>Week 4 Date: 9/12/2025</p>	<p>Lesson Overview: Read: <i>Alexander- Care of the Patient in Surgery</i> Chapter 4- Infection Prevention and Control</p> <hr/> <p>Read: <i>Howe & Burton, Pharmacology for the Surgical Technologist</i> Chapter 1 – Basic Pharmacology Chapter 2- Medication Development, Regulation, and Resources.</p> <hr/> <p>Instrument Book: <i>Nemitz, Surgical Instrumentation: An Interactive Approach.</i></p>	<p>Assignments: Alexander- Care of the Patient in Surgery, Chapter 4 Critical Thinking Question</p> <hr/> <p>Fuller- Surgical Technology Principles and Practice, Chapter 9 Review Questions and Case Studies</p> <p>Fuller- Surgical Technology Principles and Practice, Chapter 9 Workbook.</p> <hr/>

	<p>Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> Identifying and Classifying Surgical Instruments Surgical Instrumentation Inspection, Design, and Finishes <hr/> <p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> Demonstrate draping mayo and using aseptic technique. Arrange sponges, needles, sharps, instruments. Apply blades to scalpel handles. Counting items before case starts. Basic Minor Set <hr/> <p>Skills Performance Checklist:</p> <ul style="list-style-type: none"> Surgical Scrub Surgical Hand Rub Drying Hands and Arms Gowning and Gloving Self Gowning and Gloving other Team Members Remove and Replace Contaminated Gown & Gloves Remove Sterile Gown and Gloves Open Sterile Back Table Pack Opening Sterile Basins in Ring Stand Open Envelope Wrapped Sterile Instrument Tray Open Rigid Container Sterile Instrument Tray Opening Sterile Peel Pouches Open Suture Packets onto Sterile Field 	<p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 11 Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 11 Workbook.</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 12 Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 12 Workbook.</p> <hr/> <p>Howe & Burton, Pharmacology for the Surgical Technologist Chapter 1 & Chapter 2 Review Questions and Case Studies.</p> <hr/> <p><i>CST- Surgical Technology Exam Review</i> Chapter 4- Surgical Case Management: Surgical Microbiology and Wound Management, Review Questions.</p>
<p>Week 5 Date: 9/19/2025</p>	<p>Lesson Overview: Read: Alexander, <i>Care of the Patient in Surgery</i> Chapter 2- Patient Safety and Risk Management Chapter 6- Positioning the Patient for Surgery</p> <hr/> <p>Read: Fuller- <i>Surgical Technology Principles and Practice.</i></p>	<p>Assignments: Alexander- <i>Care of the Patient in Surgery</i>, Chapter 2 & Chapter 6, Critical Thinking Question</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 16, Review Questions and Case Studies</p>

	<ul style="list-style-type: none"> • Chapter 16- <i>Moving, Handling, and Positioning the Surgical Patient</i> • Chapter 17- <i>Surgical Skin Preparation and Draping</i> • Chapter 18- <i>Surgical Skills I: Planning A Case, Opening, and Start of Surgery</i> • Chapter 22- <i>General Surgery</i> <hr/> <p>Read: Howe & Burton, <i>Pharmacology for the Surgical Technologist</i> Chapter 1 – Basic Pharmacology Chapter 2- Medication Development, Regulation, and Resources</p> <hr/> <p>Instrument Book: <i>Nemitz, Surgical Instrumentation: An Interactive Approach.</i> Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> • Identifying and Classifying Surgical Instruments • Surgical Instrumentation Inspection, Design, and Finishes <hr/> <p>Skills Performance Checklist: Chapter 16- <i>Moving, Handling, and Positioning the Surgical Patient</i></p> <ul style="list-style-type: none"> • Surgical Positions • Supine (Dorsal Recumbent) • Trendelenburg • Reverse Trendelenburg • Lithotomy • Fowler and Modified Fowler • Lateral Decubitus • Prone • Jackknife (Kraske) Position <hr/> <p>Skills Performance Checklist: Chapter 17- <i>Fuller, Surgical Technology Principles and Practice</i></p> <ul style="list-style-type: none"> • Urinary Catheterization (male or female) 	<p>Fuller- <i>Surgical Technology Principles and Practice, Chapter 16, Workbook.</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice Chapter 17 & Chapter 18 Review Questions and Case Studies</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice, Chapter 17 & Chapter 18 Workbook.</i></p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice, Chapter 22, Review Questions and Case Studies</i></p> <hr/> <p>Fuller, <i>Surgical Technology Principles and Practice Chapter 22, Workbook.</i></p> <hr/> <p>Howe & Burton, <i>Pharmacology for the Surgical Technologist</i> Chapter 1 & Chapter 2, Review Questions and Case Studies.</p> <hr/>
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<p>Week 6 Date: 9/26/2025</p>	<p>Lesson Overview: Read: Alexander, <i>Care of the Patient in Surgery</i> Chapter 7- Sutures, Sharps, and Instruments</p> <hr/> <p>Read: Fuller, <i>Surgical Technology Principles and Practice</i> Chapter 22- General Surgery</p> <hr/> <p>Instrument Book: Nemitz, <i>Surgical Instrumentation: An Interactive Approach.</i> Chapter 1- Introduction to Surgical Instruments Chapter 2- Basic Sterilization Chapter 3- Basic Instruments Chapter 4- General Instruments</p> <ul style="list-style-type: none"> Identifying and Classifying Surgical Instruments Surgical Instrumentation Inspection, Design, and Finishes <hr/> <p>Skills Assessment/Activity: Skills Performance Checklist: <i>Pre-operative:</i></p> <ul style="list-style-type: none"> Opening a Case Drape Mayo Stand Arrange Instruments and Supplies in the Sterile Field Perform Sponges, Sharp & Instrument Counts <p><i>Intra-operative techniques:</i> Set-up Surgical Procedure- Open Appendectomy</p> <ul style="list-style-type: none"> Pass scalpels and instruments. (Load and Unload Scalpel Blade on Scalpel Handle) Prepare and pass sutures. Pass Ties (Includes Reel, Free Ties, and Ties on a Pass) Pass sponges as needed. Pass irrigating solutions to surgeon. Receive specimens from the surgeon. Dispense specimens to circulators. Maintain counts throughout the procedure. Care for instruments throughout the procedure. 	<p>Assignments: Alexander, <i>Care of the Patient in Surgery</i>, Chapter 7, Critical Thinking Question.</p> <hr/> <p>Fuller, <i>Surgical Technology Principles and Practice</i>, Chapter 22, Review Questions and Case Studies</p> <hr/> <p>Fuller, <i>Surgical Technology Principles and Practice</i> Chapter 22, Workbook</p> <hr/> <p>Complete Case Reports on the following procedures:</p> <ul style="list-style-type: none"> Breast Biopsy <p><i>*Use Alexander, Care of the Patient in Surgery Chapter 17- Breast Surgery for reference. (page 561)</i></p>
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	<ul style="list-style-type: none"> Count sponges and instruments (Final count). Assemble and Apply Dressings <p><i>Post-operative techniques:</i></p> <ul style="list-style-type: none"> Dispose of single-use items. Break down sterile field (after patient is out of room) Remove trash from operating room. Stock cabinets in the operating room. Maintain fast turnover time and prepare for the next case. <hr/>	
Week 7 Date: 10/03/2025	<p>Lesson Overview:</p> <p>Read: Fuller- <i>Surgical Technology Principles and Practice</i>. Chapter 19- <i>Surgical Skills II: Intraoperative and Immediate Postoperative Period</i></p> <hr/> <p>Unit I- Introduction to Pharmacology Chapter 3 – Pharmacology Math Chapter 4- Medication Administration</p> <hr/> <p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> How are surgical sponges managed during surgery? Discuss and list absorbable and non-absorbable sutures. <p>Skills Performance Checklist: Chapter 19:</p> <ul style="list-style-type: none"> Load and Unload Scalpel Blade on Scalpel Handle 	<p>Assignments: Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 19, Review Questions and Case Studies</p> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 19, Workbook.</p> <hr/> <p>Howe & Burton- <i>Pharmacology for the Surgical Technologist</i> Chapter 3 & Chapter 4 Review Questions and Case Studies.</p> <hr/> <p><i>*Perform Breast Biopsy</i> in lab. Pre-operative, Intra-operative, & post-operative techniques will be assessed during this procedure.</p>

	<ul style="list-style-type: none"> • Suture/Needle/Staple Handling Pass Ties (Includes Reel, Free Ties, and Ties on a Pass) • Handle Pathology Specimen • Wound Drainage Systems • Assemble and Apply Dressings • Postoperative Routine 	
Week 8 Due Date: 10/10/2025	<p>Lesson Overview:</p> <p>Mid-Term Exams Preparation:</p> <p>Fuller- <i>Surgical Technology Principles and Practice.</i></p> <p>Chapter 8- Microbes and the Process of Infection</p> <p>Chapter 9 - Sterile Technique and Infection Control</p> <p>Chapter 11- Surgical Instruments</p> <p>Chapter 16- <i>Moving, Handling, and Positioning the Surgical Patient</i></p> <p>Chapter 17- <i>Surgical Skin Preparation and Draping</i></p> <hr/> <p>Alexander- <i>Care of the Patient in Surgery</i></p> <p>Chapter 7- Sutures, Sharps, and Instruments</p> <p>Chapter 4- Infection Prevention and Control</p> <hr/> <p>Instrument Identification Exam:</p> <p>Nemitz- <i>Surgical Instrumentation: An Interactive Approach</i></p> <p>Chapters 3- Basic Instruments</p> <p>Chapter 4- General Instruments</p> <hr/> <p>Pharmacology:</p> <p>Howe & Burton- <i>Pharmacology for the Surgical Technologist</i></p> <p>Chapter 1– Basic Pharmacology</p> <p>Chapter 2- Medication Development</p>	<p>Assignments:</p> <p>Mid-term Exam:</p> <p>Fuller- <i>Surgical Technology Principles and Practice.</i></p> <p>Chapter 8- Microbes and the Process of Infection</p> <p>Chapter 9 - Sterile Technique and Infection Control</p> <p>Chapter 11- Surgical Instruments</p> <p>Chapter 16- <i>Moving, Handling, and Positioning the Surgical Patient</i></p> <p>Chapter 17- <i>Surgical Skin Preparation and Draping</i></p> <hr/> <p>Alexander- <i>Care of the Patient in Surgery</i></p> <p>Chapter 7- Sutures, Sharps, and Instruments</p> <p>Chapter 4- Infection Prevention and Control</p> <hr/> <p>Instrument Recognition Exam:</p> <p>Chapters 3- Basic Instruments</p> <p>Chapter 4- General Instruments</p> <hr/> <p>Pharmacology Exam:</p> <p>Chapter 1– Basic Pharmacology</p> <p>Chapter 2- Medication Development</p> <hr/> <p>Complete Case Reports on the following procedures:</p> <ul style="list-style-type: none"> • Open Appendectomy <p>ST Case Study Report Assignment 06_2025</p> <p>*Use Alexander- Care of the Patient in Surgery Chapter 11- Gastrointestinal Surgery for reference. (page 325)</p>

Week 9 Date: 10/17/2025	<p>Lesson Overview: Read: Alexander- <i>Care of the Patient in Surgery</i> Chapter 3- Workplace Issues and Staff Safety</p> <hr/> <p>Read: Fuller- <i>Surgical Technology Principles and Practice</i>. Chapter 7- Environmental Hazards</p> <hr/> <p>Read: Unit I- Introduction to Pharmacology Chapter 3 – Pharmacology Math Chapter 4- Medication Administration</p> <hr/> <p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> • Risk and Safety • The Fire Triangle • Compressed Gas Cylinders • Fire Management Strategies • Electrical Hazards • Ionizing Radiation • Magnetic Resonance Imaging • Toxic Chemicals • Smoke Plume • Standard Precautions • Latex Allergy • Musculoskeletal Risks 	<p>Assignments: Alexander- <i>Care of the Patient in Surgery</i>, Chapter 3, Critical Thinking Questions.</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 7, Review Questions and Case Studies</p> <hr/> <p>Chapter 7- Fuller- <i>Surgical Technology Principles and Practice Workbook</i>.</p> <hr/> <p>Howe & Burton- <i>Pharmacology for the Surgical Technologist</i> Chapter 3 & Chapter 4 Review Questions and Case Studies.</p> <hr/> <p>Review the Surgical Review Questions from Chapter 3- <i>Surgical Technology Exam Review: Surgical Environment</i>.</p>
Week 10 Date: 10/24/2025	<p>Lesson Overview: Read: Review: Alexander, <i>Care of the Patient in Surgery</i> Chapter 4- Infection and Prevention and Control</p> <hr/> <p>Read: Fuller- <i>Surgical Technology Principles and Practice</i>. Chapter 10- Decontamination, Sterilization, and Disinfection</p> <hr/> <p>Read: Howe & Burton- <i>Pharmacology for the Surgical Technologist</i>. Unit II- Applied Surgical Pharmacology-</p>	<p>Assignments: Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 10, Review Questions and Case Studies</p> <hr/> <p>Fuller- <i>Surgical Technology Principles and Practice</i>, Chapter 10, <i>Workbook</i>.</p> <hr/> <p>Howe & Burton- <i>Pharmacology for the Surgical Technologist</i> Chapter 5 Review Questions and Case Studies.</p> <hr/>

	<p>Chapter 5- Antibiotics</p> <p>Read: <i>Surgical Technology Exam Review, Chapter 4- Surgical Case Management: Surgical Microbiology and Wound Management.</i></p> <hr/> <p>Skills Assessment/Activity: Chapter 10- Surgical Instruments</p> <ul style="list-style-type: none"> • Sterilization indicators/biological indicators • Perform cleaning, assembly (wrapping), sterilization of minor tray. <hr/> <p>Skills Performance Checklist:</p> <ul style="list-style-type: none"> • Hand Cleaning Instruments • Instrument Set Assembly • Packing Items for Sterilization: Envelope Wrap • Packing Items for Sterilization; Rigid Container System • Packing Items for Sterilization: Peel Pouch • Operate Steam Sterilizer • Operate Vaporized Hydrogen Peroxide Sterrad. • Disinfecting the Operating Room End of Case • Terminal Disinfection of the Operating Room 	<p><i>Surgical Technology Exam Review, Chapter 4-Surgical Case Management: Surgical Microbiology and Wound Management, Review Questions.</i></p>
<p>Week 11 Date: 10/31/2025</p>	<p>Lesson Overview: Read: Fuller- Surgical Technology Principles and Practice. Chapter 10- Decontamination, Sterilization, and Disinfection</p> <hr/> <p>Read: Howe & Burton- Pharmacology for the Surgical Technologist. Unit II- Applied Surgical Pharmacology- Chapter 5- Antibiotics</p> <hr/> <p>Read:</p>	<p>Assignments: Fuller- Surgical Technology Principles and Practice, Chapter 10, Review Questions and Case Studies</p> <p>Fuller- Surgical Technology Principles and Practice, Chapter 10, Workbook</p> <hr/> <p>Howe & Burton- Pharmacology for the Surgical Technologist Chapter 5 Review Questions and Case Studies.</p>

	<p><i>Surgical Technology Exam Review, Chapter 4-</i> Surgical Case Management: Surgical Microbiology and Wound Management</p> <hr/> <p>Skills Assessment/Activity:</p> <ul style="list-style-type: none"> • Standards in Surgical Decontamination, Disinfection, and Sterilization. • Principles of Decontamination, Sterilization, and Disinfection. • Spaulding Classification System- High Risk, Intermediate Risk, Low Risk. • Reprocessing Cycle. • Cleaning at the Point of Use. • Instrument Cleaning and Decontamination. • Sorting and Inspection. <hr/> <p>Surgical Skills Assessment/Activity: Skills Performance Checklist: <i>Pre-operative:</i></p> <ul style="list-style-type: none"> • Opening a Case • Drape Mayo Stand Arrange Instruments and Supplies in the Sterile Field • Perform Sponges, Sharp & Instrument Counts <p><i>Intra-operative techniques:</i> Set-up Surgical Procedure- Open Appendectomy</p> <ul style="list-style-type: none"> • Pass scalpels and instruments. (Load and Unload Scalpel Blade on Scalpel Handle) • Prepare and pass sutures. Pass Ties (Includes Reel, Free Ties, and Ties on a Pass) • Pass sponges as needed. • Pass irrigating solutions to surgeon. • Receive specimens from the surgeon. • Dispense specimens to circulators. • Maintain counts throughout the procedure. • Care for instruments throughout the procedure. 	<p>Use Extern for a Reference:</p> <ol style="list-style-type: none"> a. What is the process of decontamination department? b. What happens when a dirty case cart is brought in from the operating room? c. Report on duties of decontamination personnel. <hr/> <p>Howe & Burton- Pharmacology for the Surgical Technologist Chapter 5 Review Questions and Case Studies.</p> <hr/> <p>Classroom and Extern</p> <ul style="list-style-type: none"> • Assemble Instrument Sets • Packing Systems used in Sterilization. • Sterilization- Storage of Wrapped Sterile Goods. • Monitoring the Sterilization Process. • Steam Sterilization. • Immediate-Use (Flash) Steam Sterilizer.
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	<ul style="list-style-type: none"> Count sponges and instruments (Final count). Assemble and Apply Dressings <p><i>Post-operative techniques:</i></p> <ul style="list-style-type: none"> Dispose of single-use items. Break down sterile field (after patient is out of room) Remove trash from operating room. Stock cabinets in the operating room. Maintain fast turnover time and prepare for the next case. 	
Week 12 Date: 11/07/2025	<p>Lesson Overview:</p> <p>Surgical Skills Assessment/Activity:</p> <p>Skills Performance Checklist:</p> <p><i>Pre-operative:</i></p> <ul style="list-style-type: none"> Opening a Case Drape Mayo Stand Arrange Instruments and Supplies in the Sterile Field Perform Sponges, Sharp & Instrument Counts <p><i>Intra-operative techniques:</i></p> <p>Set-up Surgical Procedure- Open Appendectomy</p> <ul style="list-style-type: none"> Pass scalpels and instruments. (Load and Unload Scalpel Blade on Scalpel Handle) Prepare and pass sutures. Pass Ties (Includes Reel, Free Ties, and Ties on a Pass) Pass sponges as needed. Pass irrigating solutions to surgeon. Receive specimens from the surgeon. Dispense specimens to circulators. Maintain counts throughout the procedure. Care for instruments throughout the procedure. Count sponges and instruments (Final count). Assemble and Apply Dressings 	<p>Assignments:</p> <p><i>*Practice Open Appendectomy</i> in Lab to prepare for Final Assessment for Extern Placement.</p> <p>*Use Alexander- Care of the Patient in Surgery Chapter 11- Gastrointestinal Surgery for reference. (page 325)</p>

	<p><i>Post-operative techniques:</i></p> <ul style="list-style-type: none"> • Dispose of single-use items. • Break down sterile field (after patient is out of room) • Remove trash from operating room. • Stock cabinets in the operating room. • Maintain fast turnover time and prepare for the next case. 	
Week 13 Date: 11/14/2025	Lesson Overview: Skills Assessment/Activity: <ul style="list-style-type: none"> • Vaporized Hydrogen Peroxide Sterilization. • Liquid Peracetic Acid Sterilization. • Ozone Sterilization • Cobalt-60 Radiation 	Assignment: Research Paper: Extern Experience Research a sterilization process used in the operating room (excluding steam sterilization).
Week 14 Date: 11/21/2025	Lesson Overview: Skills Assessment/Activity: <ul style="list-style-type: none"> • Preparing, Packing, and Transporting instruments and supplies to the operating room. 	Assignment: <p>Review: Fuller- <i>Surgical Technology Principles and Practice, Chapter 10, Review Questions and Case Studies</i></p> <p>*Fuller- <i>Surgical Technology Principles and Practice, Chapter 10, Workbook.</i></p> <hr/> <p>Review: Alexander- <i>Care of the Patient in Surgery, Chapter 4</i> Critical Thinking Questions.</p> <hr/>
Week 15 Date: 11/28/2025	Read: Skills Assessment/Activity: Extern Experience <ul style="list-style-type: none"> • Wrapping Instrument Sets • Peel Packing Instruments and Supplies. • Rigid Sterilization Container 	<p>Review: Fuller- <i>Surgical Technology Principles and Practice, Chapter 10, Review Questions and Case Studies</i></p> <p>*Fuller- <i>Surgical Technology Principles and Practice, Chapter 10, Workbook.</i></p> <hr/> <p>Review:</p>

		Alexander- <i>Care of the Patient in Surgery</i>, Chapter 4 Critical Thinking Questions.
Week 16 Due Date: 12/05/2025	<p>Final Exam Preparation: Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 7- Environmental Hazards Chapter 9- Sterile Technique and Infection Control Chapter 10- Decontamination, Sterilization, and Disinfection Chapter 19- <i>Surgical Skills II: Intraoperative and Immediate Postoperative Period</i> Chapter 22- General Surgery -</p> <hr/> <p>Alexander- <i>Care of the Patient in Surgery</i> Chapter 3- Workplace Issues and Staff Safety Chapter 4- Infection and Prevention and Control</p> <hr/> <p>Pharmacology Exam: Howe & Burton- <i>Pharmacology for the Surgical Technologist</i>. Unit I- Introduction to Pharmacology Chapter 3 – Pharmacology Math Chapter 4- Medication Administration</p> <hr/> <p>Unit II- Applied Surgical Pharmacology- Chapter 5- Antibiotics</p> <hr/> <p>Final Skills of Surgical Procedure- Open Appendectomy</p> <p>Skills Performance Checklist: Pre-operative:</p> <ul style="list-style-type: none"> • Opening a Case • Drape Mayo Stand Arrange Instruments and Supplies in the Sterile Field • Perform Sponges, Sharp & Instrument Counts. <p>Intra-operative techniques:</p>	<p>Final Exams and Final Assessments: Final Exam: Fuller- <i>Surgical Technology Principles and Practice</i> Chapter 7- Environmental Hazards Chapter 9- Sterile Technique and Infection Control Chapter 10- Decontamination, Sterilization, and Disinfection Chapter 19- <i>Surgical Skills II: Intraoperative and Immediate Postoperative Period</i> Chapter 22- General Surgery Alexander, <i>Care of the Patient in Surgery</i> Chapter 3- Workplace Issues and Staff Safety Chapter 4- Infection and Prevention and Control</p> <hr/> <p>Pharmacology Exam: Howe & Burton, <i>Pharmacology for the Surgical Technologist</i>. Unit I- Introduction to Pharmacology Chapter 3 – Pharmacology Math Chapter 4- Medication Administration</p> <hr/> <p>Unit II- Applied Surgical Pharmacology- Chapter 5- Antibiotics</p> <hr/> <p>Scrub, set up, and perform an Open Appendectomy for <i>Final Assessment</i> for Extern assignment. <i>Must score 85%</i> or higher on the assessment to be allowed to scrub on extern.</p>

	<p>Set-up Surgical Procedure- Open Appendectomy</p> <ul style="list-style-type: none"> • Pass scalpels and instruments. (Load and Unload Scalpel Blade on Scalpel Handle) • Prepare and pass sutures. Pass Ties (Includes Reel, Free Ties, and Ties on a Pass) • Pass sponges as needed. • Pass irrigating solutions to surgeon. • Receive specimens from the surgeon. • Dispense specimens to circulators. • Maintain counts throughout the procedure. • Care for instruments throughout the procedure. • Count sponges and instruments (Final count). • Assemble and Apply Dressings <p>Post-operative techniques:</p> <ul style="list-style-type: none"> • Dispose of single-use items. • Break down sterile field (after patient is out of room) • Remove trash from operating room. • Stock cabinets in the operating room. • Maintain fast turnover time and prepare for the next case. 	
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The course outline is a general plan for the course; deviations may be necessary and will be announced.

Concerns/Questions Statement

Please contact the instructor regarding any issues or concerns about the course.

College of the Mainland is committed to providing an educational climate that is conducive to the personal and professional development of everyone. To ensure our commitment, the College has developed procedures for students to address their concerns within the college community. A student who has an unresolved disagreement with a faculty or staff member, another student, a student group, or dissatisfaction with the service received may initiate a complaint without prejudicing his or her status with the College. Please review the Surgical Technology Student Handbook and the [COM Student Handbook](#) for the process.

Disclaimers / Additional Policies

Course policies are subject to change. It is the student's responsibility to check Brightspace/D2L for corrections or updates to the syllabus. Any changes will be posted in Brightspace/D2L.

The Surgical Technology Program courses build upon each other. The ARRT board exam covers ALL content taught in the program. In each course, there will be test questions from prior modules and prior classes.

Please refer to the Surgical Technology Student Handbook for more information on specific program policies and additional clinical requirements.

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.pdf. An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: AccessibilityServices@com.edu

Location: COM Doyle Family Administration Building, Student Success Center

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is October 1. The last date to withdraw from the 16-week session is November 14. The last date to withdraw for the 2nd 8-week session is November 25.

FN Grading: The FN grade is issued in cases of failure due to a lack of attendance, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which

the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: *The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.*

Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.

Nondiscrimination Statement:

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.

Acknowledgements

I acknowledge that a copy of this syllabus has been given to me and a signed copy will be placed in my student file. I further acknowledge that the syllabus has been reviewed with me and that I understand all the course objectives, policy statements and expectations, and the learning activities of the course as written in this syllabus.

Student Signature: _____ Date: _____

Instructor Signature: _____ Date: _____

Course Name and Number: _____