Surgical Technology Program
SURG 441: Patient Care Concepts

Meeting times: Monday through Thursday, 8:00 am to 2:00 pm.
Location: Room 7205

Instructors: Alice Erskine, RN, CST, CNOR Office: Room 7209 Ph: 650-738-4470
Hours: 8 am to 5:30 pm, Monday to Friday

Mike Wasilewski, CST, CRCST Office: Room 7205C Ph: 650-738-4416
Hours: 11 am to 5 pm Mon, Tues, Wed.

Student Learning Outcomes

Upon completion of this course, the student will be able to

a. Identify components of the operating room environment and the roles of the operating room team
b. Demonstrate principles of aseptic technique
c. Defend an application of medical ethics, government regulations, or professional standards
d. Describe the surgical care of wounds
e. Summarize the steps of decontamination, disinfection, and sterilization
f. Apply critical thinking to reduce the risks of hazards to patients and personnel
g. Distinguish between human homeostasis and technical interventions

Objectives

Upon completion of this course, the student shall be able to

Surgical Case Management

1. Arrange the equipment and furniture of an operating room for a given surgical procedure.
2. Assemble a Major Instrument Set
3. Prepare and maintain a sterile field
4. Safely handle instruments and supplies
5. Demonstrate principles of decontamination, disinfection, and sterilization
6. Identify the members of the Surgical Team and describe the roles of each

Patient Care

1. Distinguish between the physiological and the psychosocial needs of the patient
2. Describe three practices common to the preparation of patients for surgery
3. Match a patient care intervention selected to maintain homeostasis
4. Identify potential hazards to patients and personnel and list precautions to take
5. Use principles of body mechanics in the transportation and positioning of the patient

Objectives (continued)

Professional Issues

1. Define legal terms related to professional liability
2. Select a government agency and explain its role in regulating surgical patient care
3. Demonstrate professional communication skills
4. Use critical thinking to solve an ethical dilemma

Grades

Grade Values: Quizzes and Assignments: 50% of Grade
Final Exam 50% of Grade
Clinical Lab Skills* Pass/ Fail

**The student MUST Pass the Lab Skills in order to proceed to SURG 442 & 443.*

Grade Scale: A = 93 – 100% F < 78%
B = 85 – 92%
C = 78 – 84%

Graded Work:

Written Assignments: Two (2) Observation Days 100 points each
The purpose of these observations days are to orient the student to the structure and function of the operating room. *The student is to perform no patient care.*
Following a printed format, the student will report on a full day of observation at one of two assigned hospitals in the Bay Area. The reports are to be typed and submitted on the day following the observation. Points are subtracted for each of the following:

1. The report is not typed (2 Points)
2. The report is late. (2 points subtracted for each date it is late)
3. The format is not followed or an item is missing. (2 Points for each)

Quizzes: 100 points each. Lowest score is subtracted and an average is obtained of the remaining scores. Students are to use **Scantron sheets and #2 pencils.**

Final Exam: 100 questions = 100 points. Final is comprehensive, covering all topics. Students are to use **Scantron Sheets and #2 pencils.**

Make-up Quizzes: If, for any reason, a student misses a test, s/he has five class days to take the quiz. If the student does not take the quiz within the 5 days, s/he receives a Zero (0) for the quiz.

Required Texts

Surgical Technology for the Surgical Technologist, Fourth Edition, AST, Inc., 2008, Delmar Cengage Learning.

Skyline Surgical Technology Lab Manual, Wasilewski, 2013
The assigned readings are to be completed prior to the day of lecture/lab.

Required Supplies

- Scrub Suit for Lab practice
- Lanyard for Program Name tag
- Walking Shoes with Leather Uppers

Suggested Texts

Ethics, Legal Issues, and Professionalism in Surgical Technology, Jackson, 2007, Thomson Delmar Learning.

Suture and Surgical Hemostasis, Pienik, 2006, Saunders

Differentiating Surgical Equipment and Supplies, Rutherford, 2010, F.A. Davis Company

Operating Room Skills, Dankanich, 2013, Pearson Education.

Differentiating Surgical Instruments, Rutherford, 2012, F.A. Davis Company

Attendance Policy

The student is expected to attend all classes and Labs. "Absence" means non-attendance for any reason (illness, Dr.'s appointment, personal matters, car trouble, & more). Only **5 absent days** are allowed during the FALL semester without penalty. *For every **absence day** over the limit, five (5) points shall be subtracted from the student's semester grade average*.

Tardiness is unacceptable. Leaving class early without permission is unacceptable. The student is expected to

- Call the Instructor/ hospital that s/he will be tardy or absent BEFORE the start of class or lab.
- Keep the Instructor's phone number, the assigned hospital's phone number with him or her at all times.
- If the student knows he or she must miss a future class day, it is his or her obligation to notify the Instructor ***in writing*** **prior** to the day the student will be absent.

*For **excessive tardiness** and/or failure to notify the Instructor, 5 points shall be subtracted from the next test grade*. This includes returning from lunch or breaks after the start of a lab.

Professional Behavior

The student is expected to

- Follow all Program Policies as published in The Surgical Technology Program Student Handbook
- Communicate with all persons associated with the Surgical Technology Program in a respectful manner
- Treat all property with respect
- Treat all persons as individuals, respecting their religious, ethnic, racial, or gender preferences
- Keep the Instructors informed as to any changes of address, telephone number, or events that can affect the student's success in the program
- Use Lab time to practice skills to prepare for SURG 443: Clinical Practice

Failure to meet these expectations can lead to disciplinary action including possible dismissal from the program.

SURGICAL TECHNOLOGY PROGRAM
SURG 441: Patient Care Concepts
Fall, 2013

STST = Surgical Technologist for the Surgical Technologist 4th Edition **RP** = AORN Recommended Practices

DATE	LECTURE	READINGS	LABORATORY	NOTES
Aug. 19	Introduction to Surgical Technology: Our Purpose/ Our History	**STST**: Pgs. 3-13, 326- 29, 137-39 **RP:** Surgical Attire **RP:** Surgical Hand Antisepsis	**Laboratory Syllabus** Daily Schedule O.R. Attire Hand-washing	
Aug. 20	Intro to ST: Roles and Responsibilities	**STST**: Pgs. 18	O.R. Furniture O.R. Attire Hand-washing	**Video:** The Surgical Technologist
Aug. 21	1. O.R. Facilities 2. Basics of Surgical Instruments	**STST:** Pgs. 18-25, 76-85, 329-31 **RP:** Traffic Patterns	**Quiz:** O.R. Furniture & Attire Dr.'s Preference Card And Case Carts	**Video:** Traffic Patterns Basic Instrumentation
Aug. 22	1. O.R Administration 2. Basics of Surgical Instruments	**STST:** Pgs. 19-25, 265-276	Passing Instruments	**Video:** Fundamentals of Surgical Technique
Aug. 26	**Quiz:** Intro to Surg Tech 1.Professionalism & Standards 2. Care and Handling Instruments	**STST:** Pgs.19-25, 265-276 **RP:** Cleaning & Care of Instruments	**QUIZ:** Preference Card & Case Cart Plastic set & Basin Sets	**Video:** Care and Handling of Surgical Instruments
Aug. 27	1. Aseptic Technique: Principles	**STST:** Pgs. 170-175 **RP:** Maintaining a Sterile Field	Plastic Set Basin Sets Sterile Field	**Video:** Principles of Asepsis
Aug. 28	**Review:** Facilities & Administration 1. Aseptic Technique: Skin Prep & Catheterization	**STST:** Pgs. 356-59, 371-74, 330-334 **RP:** Patient Skin Antisepsis	**Quiz:** Plastic Set & Basin Set Minor Set Opening the Sterile Field	**Videos:** Skin Prep, Urinary Catheterization
Aug. 29	1. Communications & Teamwork 2. Aseptic Technique 3. Power Surgical Instruments	**Communications Handout** **STST:** Pgs. 15-17 **Power Instrument Handout**	Power Instruments	**Video:** Enhancing Communication in the O.R. **Video**: Power Surgical Instruments

Sept. 2	**LABOR DAY HOLIDAY**			
Sept. 3	**QUIZ: Facilities & Administration** 1.Communication & Teamwork	**Communications Handout** **STST:** 315-317**,** 366-369, 330-341	Opening Supplies Minor Set Opening Sterile Field	**Video:** Effective Team Building
Sept. 4	**1. Review:** Aseptic Technique 2. Communications & Teamwork	**Communications Handout** **STST:** Pgs. 332-337	**Quiz:** Minor Set Scrubbing, Gowning & Gloving Opening Sterile Field Major Set	**Video:** Effective Conflict Resolution/ **Video:** Hand Hygiene, Gowning & Gloving
Sept. 5	1. Supplies: Surgical Sponges 2. Surgical Counts	**STST:** Pgs. 386-87, 280-81	Scrubbing, Gowning & Gloving Opening the Sterile Field Major Set	**Video:** Preventing Retained Surgical Items
Sept. 9	**QUIZ: Aseptic Technique** 1. Supplies: Drains, Tubes & Catheters	**RP:** Prevention of Retained Items **STST:** Pgs. 285-288	Major Set, Scrub, Gown, Glove Plastic Set-up	
Sept. 10	Supplies: Drains, Tubes & Catheters The Patient	**STST:** Ch. 3 & 4, Pgs. 285-88	**QUIZ:** Major Set Scrub, Gown, & Glove Plastic Set-up Gall Bladder & Bowel Set	**Video:** For the Patient's Sake
Sept. 11	1. Supplies: Drains, Tubes, Catheters 2. The Elderly Patient	**STST:** Ch. 3 & 4, Pgs. 285-88	S, G & G Open Gloving, Gloving Dr. GB/ Bowel Set Plastic set-up **Student Skills Assessment**	**Video:** Care of an Aging Population
Sept. 12	1. Supplies: Dressings 2. The Pediatric Patient **Review :** Instruments	**STST:** Ch. 3 & 4, Pgs. 282-85	Breaks in Aseptic Technique Open Gloving, Gloving Dr. GB/ Bowel Set Minor Set-up	**Video:** Preparing Children for Surgery
Sept. 16	**QUIZ: Instruments** 1. Preop Patient Routines 2. Draping the Patient 3. Dressings (continued)	**STST:** Pgs. 323-26, 375-80, 280-81, 282-85 **Preop Routines Handout**	**QUIZ:** GB & Bowel Set Set-up/ Handling Medications Supine Position Laparotomy Draping (375-80) Gynecology Set Major Abdominal Set-up	**Video:** Surgical Draping

Sept. 17	1. Supplies: Drapes & Packs Dressings (continued)	**STST:** Pgs. 280-85, 295, 359-371 **RP**: Selection of Drapes & Gowns	Supine Position Laparotomy Draping Gynecology Set Major Abdominal Set-up	**Video:** Medication Safety
Sept. 18	**Review:** The Patient & Routines 1. Supplies: Syringes and Needles	**Body Mechanics Handout** **STST:** Pgs. 288, 347, 359-371	**QUIZ:** Gynecology Set Supine Position Laparotomy Draping D & C Set	**Video:** Body Mechanics
Sept. 19	**QUIZ:** The Patient & Preop Routines 1. Body Mechanics (Guest Speaker) 2. Transporting the Patient	**STST:** Pgs. 348, 349, 350, 359-371 **Transporting the Patient Handout**	Body Mechanics Transporting the Patient D & C Set Laparotomy Draping	
Sept. 23	**Review:** Supplies 1. Positioning the Patient	**Positioning Handout** **STST:** Pgs. 359-71 **RP** : Positioning	Lithotomy Position Lithotomy Draping (375-80) D & C Set & Set-up	**Video:** Safely Positioning the Patient
Sept. 24	**QUIZ:** Supplies 1. Positioning Equipment 2. Wounds: Types	**STST:** Pgs. 359-371, 290-294, **Positioning Equipment Handout** **Wounds Handout**	Lithotomy Position Lithotomy Draping D & C Set & Set-up	**Video:** Maquet Surgical Table
Sept. 25	**Review:** Transportation & Positioning 1. Wounds: Incisions	**STST:** Pgs. 290-294, 418-421 **Wounds Handout**	**QUIZ:** Lithotomy Draping D & C Set & Set-up Lateral Position	**Video:** Vac-Pac
Sept. 26	1. Wounds: Healing & Complications **2. Prepare for Observation Day I**	**STST:** Pgs. 290-94 **Wounds Handout**	Check-offs: Laparotomy Draping D & C Set & Set-up	**Video:** Wound Healing
Sept. 30	**Quiz:** Transportation & Positioning **Review:** Wounds & Wound Healing	**Wounds Handout** **RP:** Prevention of Infections	**QUIZ:** D & C Set Lateral Position T & A Set & Set-up	**Video:** Burn Wound Management
Oct. 1	**Observation Day I- The Surgical Patient**	**Assignment Due Oct. 3**		**Students at Hospitals**
Oct. 2	**REVIEW: Observation Day** 1. Wound Closures: Suturing Techniques	**Wound Closure Handout** **STST:** Pgs. 297-316	Lateral Position T & A Set & Set-up	**Video:** Wound Closure

Oct. 3	**QUIZ:** Wounds and Wound Healing 1. Wound Closures: Suture Needles	**STST:** Pgs. 297-316 **Wound Closure Handout**	Lithotomy Check-offs Lateral Position T & A Set & Set-up Head & Neck Draping	
Oct. 7	1. Wound Closures: Suture Materials 2. Passing Sutures	**STST:** Pgs 297-316, 384-86 **Wound Closure Handout**	**QUIZ:** T & A Set Sutures/ Threading Needles Check-offs: Lateral Position Orthopedic Set	**Video**: Sharps Safety
Oct. 8	1. Wound Closures: Suture Materials	**Wound Closure Handouts**	Sutures/ Threading Needles Position & Drape for Head & Neck (375-80) T & A Set-up Orthopedic Set	
Oct. 9	1. Wound Closure: Surgical Staplers 2. Surgical Specimens	**STST:** Pgs 316-19, 387 **Wound Closure Handout** **Specimen Care Handout**	**QUIZ:** Head & Neck Draping Surgical Staplers Orthopedic Set	**Surgical Stapler Representative**
Oct. 10	**REVIEW:** Wound Closures 1. Specimen Care	**STST:** P. 387-8, 71 **Specimen Care Handout** **RP:** Specimen Care	Prone Position Orthopedic Set Sutures/ Threading Needles	
Oct. 14	**QUIZ: Wound Closures** 1. Tissue Banking	**RP:** Tissue Banking	**QUIZ:** Orthopedic Set Prone Position Hand Set & Set-up	
Oct. 15	1. Sterile Processing: Sanitation	**STST:** Pgs. Pgs. 140-70 **RP:** O.R. Sanitation	Prone Position Head & Neck Check-offs Draping Extremity (375-80) Hand Set	**Video:** Environmental Sanitation
Oct. 16	1. Sterile Processing: Disinfection	**STST:** Pgs. 140-70 **RP:** High Level Disinfection	Extremity Draping Hand Set & Set-up	**Video:** Decontamination
Oct. 17	**REVIEW:** Specimen Care & Tissues 1. Sterile Processing: Packaging	**STST:** Pgs. 140-70 **RP:** Selection of Packaging Systems	Prone Position Check-offs Head & Neck Check-Offs Packaging for Sterilization	**Video:** Sterilization Wrap
Oct. 21	**QUIZ: Specimen Care** 1. Sterile Processing: Steam Sterilization	**STST:** Pgs. 140-70	**QUIZ**: Hand Set Draping: Extremity (375-80) Laparoscopy Set	**Video:** Sterilization in the Perioperative Setting

Oct. 22	1. Sterile Processing: Chemical Sterilization	**STST:** Pgs. 140-70 **RP:** Sterilization	Draping: Extremity (375-80) Laparoscopy Set	**Videos**: Sterad
Oct. 23	**Review:** Sanitation, Disinfection, Sterilization 1. Hemostasis: Natural Human	**STST:** Pgs. 177-181	Extremity Draping Laparoscopy Set & Set-up	**Video:** Wound Healing (Again)
Oct. 24	1. Hemostasis: Mechanical **2. Trip to the Central Service Dept.**	**STST:** Pgs. 177-81, 278-79 **RP:** Tourniquets	**Field Trip**	
Oct. 28	**QUIZ**: Sanitation, Disinfection, Sterilization 1. Hemostasis: Chemical	**STST:** Pgs. 177-81; 228-30	**QUIZ:** Extremity Draping Laparoscopy Set & Set-up	
Oct. 29	1. Hemostasis: Thermal	**STST:** Pg. 177-81, 228-30	Laparoscopy Set & set-up	**Video:** Harmonic Scalpel Ligasure
Oct. 30	1. Hemostasis: Blood Loss & Replacement 2. Equipment: Electrosurgery	**STST:** Pgs. 177-81, 228-30, 107-113 **Equipment Handout** **RP:** Electrosurgery	**QUIZ:** Laparoscopy Set Set-up & Time Out	**Video:** Electrosurgery Argon Beam Coagulator
Oct. 31	**Review:** Hemostasis & Blood Loss Replacement 2. Equipment: Lasers & Fiberoptics	**STST:** Pgs. 114-118, 274, 276 **Equipment Handout** **RP:** Laser Safety	Extremity Draping Check-offs **Student Skills Assessment**	**Video**: Laser Safety
Nov. 4	**QUIZ:** Hemostasis & Blood Replacement 2. Equipment: Suctions & Irrigators	**STST:** Pgs. 277 **Equipment Handout**	**QUIZ:** Laparoscopy Set-up Set-up & Reliefs	
Nov. 5	1. Equipment: Microscopes & Loupes 2. Legal Issues: Torts	**STST:** Pgs. 276, Ch. 2 **Equipment Handout**	Set-ups & Time Out	**Video:** Leica Microscope
Nov. 6	1. Equipment: Ultrasonics 2. Legal Issues	**STST**: Pgs. 277, Ch. 2 **Equipment Handout**	Prep for Mock Surgery Set-up & Time-out	
Nov. 7	1. Equipment: Robots 2. Ethical Issues	**Equipment Handout** **STST:** Pgs. 118-125, Ch. 2	Scrubbing, Gowning & Gloving Check-offs	**Video:** Da Vinci Robot
Nov. 11	**VETERANS DAY HOLIDAY**			

Nov. 12	**Review:** Equipment 1. Ethical Issues	**STST:** Ch. 2	Set-up and Clean-up Mock Surgery- Lumpectomy	
Nov. 13	1. Ethical Dilemmas 2. Endoscopic Surgery	**Ethical Dilemma Exercise** **STST:** Ch. 2; Pgs. 114, 274, 276	From Setup to Clean-up Mock Lumpectomy	**Video:** Laparoscopic Cholecystectomy
Nov. 14	**QUIZ:** Equipment **Review:** Legal & Ethical Issues 2. Endoscopic Surgery	**STST:** Ch. 2, 543-551, 472-80 **Endoscopy Handout**	Open Lab Scrub, G & G Check-offs	
Nov. 18	**QUIZ:** Legal & Ethical Issues 2. Endoscopic Surgery	**Endoscopy Handout**	Mock Lumpectomy	**Video:** Concepts of Endoscopic Surgery
Nov. 19	1. Endoscopic Surgery 2. Homeostasis: Diagnostics	**STST:** Ch. 13 **Endoscopy Handout** **RP:** Cleaning Endoscopes	Endoscopic Equipment Reps? Mock Lumpectomy	**Video:** MIS-The Role of the Periop RN
Nov. 20	**Review:** Endoscopic Surgery 1. Homeostasis: Physiologic Monitoring	**STST:** Pgs. 248-51 **Homeostasis Handout**	Endoscopic Equipment? (Company Reps) Mock Laparoscopic Appendectomy	
Nov. 21	**QUIZ:** Endoscopic Surgery 1. Homeostasis: Hemodynamic Monitoring	**Homeostasis Handout** **STST:** 248-51	Mock Laparoscopic Appendectomy	**Video:** Doppler Probe Venaflow
Nov. 25	1. Homeostasis: Temperature Regulation 2. Anesthesia: Local & Regional	**STST:** Pgs. 248-250, 230-248 **Homeostasis Handout** **RP:** Prevention of Hypothermia	Mock Laparoscopic Appy	**Video**: Bair Hugger
Nov. 26	**Review:** Homeostasis 1. Anesthesia: General Anesthesia	**STST:** Pgs. 240-48 **Homeostasis Handout**	Mock Lap Appy	**Video:** Anesthesia
Nov. 27	**QUIZ**: Homeostasis Anesthesia: Complications	**STST:** Pgs 240-48 **Observation Day Handout**	Mock Surgery	**Video:** Malignant Hyperthermia
Nov. 28 & 29	**Thanksgiving Holidays**			
Dec. 2	**PREPARE for Observation Day II- The Role of the ST** **Review:** Anesthesia & Complications Hazards: Chemical	**STST:** 240-48, 182-185, 36-38, 85-96	Mock Small Bowel Resection	**Video:** Workplace Safety

Dec. 3	**OBSERVATION DAY II**	**Assignment due Dec. 5**		
Dec. 4	Hazards: Chemical	**STST:** Pgs. 85-96 **RP:** Safe Environment of Care	Mock Small Bowel Resection	**Video:** Risk Management
Dec. 5	**QUIZ:** Anesthesia Hazards: Physical	**STST:** Pgs. 85-96 **RP:** Reducing Radiological Exposure	Mock Small Bowel Resection	**Video:** Reducing Radiological Exposure
Dec. 9	Hazards: Thermal	**STST:** 85-96	Mock Small Bowel Resection	**Video:** Fire Prevention in the O.R.
Dec. 10	Hazards: Disaster Preparedness	**STST:** Pgs. 185-193 **Disaster Handout** **RP:** Mass Casualty Guidance	Mock Small Bowel Resection	
Dec. 11	**Review:** Hazards	**STST:**	Mock Small Bowel Resection **Student Skills Assessment**	
Dec. 12	**QUIZ:** Hazards **Prepare for SURG 443**	**Clinical Manual & Syllabus for SURG 443**	**Pot Luck**	Graduates to Speak
Dec. 16	**FI NAL EXAM**			

Semester Break = December 17, 2013 to January 8, 2014.

SURG 442 begins on January 9, 2014.

SURGICAL TECHNOLOGY PROGRAM
CLINICAL LABORATORY SKILLS
Check-off Sheet

STUDENT NAME:_____

To pass, the student must be able to perform each skill accurately and safely. Student must be able to recognize an error without prompting. The error must be corrected immediately and appropriately.

PASSING INSTRUMENTS

	Error	Correction	Pass/Fail	Comment
Hand-held Retractor				
Self-retaining Retractor				
Mount Blade and Pass Scalpel				
Forceps				
Needle Holder w/ Suture				
Hypodermic syringe				
Tie-on-a-Passer				

ASEPTIC TECHNIQUE

	Error	Correction	Pass/Fail	Comment
Opening Supplies				
Creating Sterile Field				
Hand Scrub				
Gowning & Gloving				
Gloving Surgeon				
Sterile Boundaries				
Draping Mayo Stand				

SUTURES

	Error	Correction	Pass/Fail	Comment
Threading Eye Needles				
Mounting Atraumatic Suture				
Passing Free Tie				
Mounting Tie-on-a-Passer				

COUNTS

	Error	Correction	Pass/Fail	Comment
Sponge				
Sharps				

Evaluator:_____ **Date:**_____