

### Course Syllabus

COURSE: SRGT 1541 (5:4:4) Surgical Procedures I (5 Credit Hours)  
SEMESTER: Spring 2015 (January - May; 16 Week Semester)  
CLASS TIMES: Monday: 8:30am – 11:30am (Lecture); 12:30 – 4:00 (Lab)  
INSTRUCTOR: Kristie Cole, CST  
OFFICE: RC 528  
OFFICE HOURS: Fridays 8:30 – 3:00; or by appointment only  
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*“South Plains College improves each student’s life.”*

## GENERAL COURSE INFORMATION

### COURSE DESCRIPTION

This course is an introduction to surgical pathology and its relationship to surgical procedures. Emphasis is placed on surgical procedures related to General, Genitourinary, Oral/Maxillofacial, Plastic/Reconstructive, Ophthalmic, and emergent surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

### STUDENT LEARNING OUTCOMES

Students will:
1. Increase his/her knowledge base of the surgical environment. F-1, F-2, F-5, F-6, F-7, F-8, F-9, F-10, F-12, C-1, C-3, C-4, C-5, C-6, C-7, C-9, C-12, C-14
2. Gain the confidence necessary to function as a team member in the operating room. F-13, F-14, F-15, F-16, F-17
3. Prepare himself/herself for full-time clinical rotations. F-1, F-2, F-5, F-6, C-5, C-6, C-7
4. Demonstrate basic knowledge of aseptic technique. F-1, F-2, F-5, F-6, F-7, F-8, F-9, F-10, F-11, F-12, F-13, F-16, F-17

### COURSE OBJECTIVES –

#### The Cognitive Domain Objectives:

- Identify his or her role in the operating room as a surgical technologist
- Identify the various members of the surgical team
- Know how the OR interacts with other departments in the hospital
- Know how to provide a safe environment for surgical patient care
- Know and understand infection control
- Identify anatomical structures of the human body
- Identify medications and their uses in surgery
- Distinguish among sterile, non-sterile, and aseptic
- Describe the process to perform sponge, needle, instrument, and sharp counts correctly
- Describe safe techniques for handling tissues
- Describe basic parts of the laser chamber
- List the components of a robotic surgical system
- Identify basic laboratory tests and indications
- List specific abdominal incisions

- List the different types of hernias
- Identify the structure of the heart
- List various restrictions related to operating room attire
- List the principles of aseptic technique

**The Psychomotor Domain Objectives:**

- Apply theory to practice in lab and Clinical settings
- Identify and utilize basic surgical instrumentation along with OR equipment
- Care for surgical instruments properly
- Assist in positioning and draping the surgical patient
- Practice the rules of aseptic technique
- Demonstrate the surgical hand scrub correctly
- Demonstrate aseptic technique for donning gown and gloves
- Demonstrate proper technique for donning sterile gloves using open glove technique
- Demonstrate the correct set up for a surgical case
- Demonstrate methods of opening surgical supplies correctly
- Identify and demonstrate safety precautions followed in laser surgery
- Demonstrate how to set up and maintain the endoscopic light source
- Describe the basic set up for endoscopic instruments
- Demonstrate the proper care for endoscopic instruments and equipment
- Locate the anatomy involved in inguinal hernias
- Demonstrate the set up for a breast biopsy
- Demonstrate proper draping of the patient for perineal surgery
- Demonstrate proper operating room attire
- List the rules of aseptic technique
- Demonstrate the surgical hand scrub correctly
- Demonstrate removing gown and gloves using aseptic technique
- Demonstrate removal of contaminated gloves from another person

**The Affective Domain Objectives:**

- Determine moral, ethical, and legal responsibilities
- Discuss the rationale for practicing aseptic technique
- Discuss surgical conscience
- Discuss the characteristics of laser energy
- Discuss and compare classifications of lasers
- Describe the preoperative preparation of equipment for endoscopic procedures
- Discuss the potential benefits of robotic technology
- Discuss proper precautions associated with radiation studies
- Discuss the role of the surgical technician during intraoperative emergency situations
- Discuss the purpose of mesh used for hernia repair
- Discuss instrumentation used for hernia repair
- Discuss instrumentation used for breast surgeries
- Discuss instruments and equipment required in a hysteroscopic procedure

- Discuss the importance of maintaining aseptic technique during vaginal procedures
- Discuss proper hand washing between surgical hand scrub
- Discuss surgical conscience

### **OUTCOMES ASSESSMENT METHODS**

Assessment methods for this course are both formative and summative.

#### **Formative assessments include:**

- Discussions
- Quizzes
- Unit exams
- Classroom

#### **Summative assessment will be**

- A comprehensive final exam.

### **ACADEMIC INTEGRITY**

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

**Cheating** - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as final examinations, to daily reports and to term papers.

**Plagiarism** - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

### **SCANS and FOUNDATION SKILLS**

Refer also to Course Objectives. SCANS and Foundation Skills attached.

### **VERIFICATION OF WORKPLACE COMPETENCIES -**

This course does not include a Capstone Component.

## SPECIFIC COURSE INFORMATION

### **TEXT AND MATERIALS**



1. Surgical Technology for the Surgical Technologist: A Positive Care Approach, 4<sup>th</sup> ed., AST (Text)

**METHODS OF TEACHING**

- Lecture
- PowerPoint Presentations
- Question and Answer
- Review
- Quizzes
- Examinations
- Demonstrations
- Role Playing

**ATTENDANCE POLICY**

Class attendance is mandatory. Students are allowed three (3) absences and will be administratively withdrawn on the fourth (4th) absence. A tardy is given if the student is not present for the class or lab within the first 5 minutes of the class period. Two (2) tardies equal one (1) absence. If a student misses more than 30 minutes of any class session, an absence will be given for the day.

**ASSIGNMENT POLICY**

The student is responsible for being prepared for class, which includes but is not limited to reading the assigned chapters and/or pages from the textbook. In some instances, information from the reading assignments not covered during class may be included on an exam.

**GRADING POLICY** - Grades in this course will be determined using the following criteria:

The course grade will be determined by a combination of major exams, class and individual assignments, quizzes, lab activities, and a comprehensive final exam. Exam dates will be announced. The following guidelines will be followed regarding exams:

1. The student is expected to complete the exam at the scheduled time. Make-up exams will not be given.
2. Late assignments will not be accepted.
3. The final exam is comprehensive.
4. The last three days of this course are dedicated to the Summative Lab Final due to the complexity of this final. You must be present for your scheduled exam. Students not testing may observe with permission or practice lab skill. Attendance for those class periods is not mandatory.

(7)Homework	15%
(1)Lab Skills Average	30%
(4)Exams	20%
(1) Comprehensive Didactic Final Exam	35%

<i>Grading Scale</i>	<i>91-100 = A</i>
	<i>81-90 = B</i>
	<i>75-80 = C</i>
	<i>Below 75 is failing</i>

A grade average of C (75) must be maintained in all Surgical Technology classes. Failure to do so will result in the student being dropped from the Program.

### **COMMUNICATION POLICY**

Electronic communication between instructor and students in this course will utilize the South Plains College “My SPC” and email systems. Instructor will not initiate communication using private email accounts. Students are encouraged to check SPC email on a regular basis.

### **STUDENT CONDUCT**

Students in this class are expected to abide by the standards of student conduct as defined in the SPC Student Guide pages 11-14.

### **SPECIAL REQUIREMENTS**

**Cell Phones** – Cell phones are permitted in class and lab. They **MUST** be turned to silent. A student whose phone sounds during class, or is observed to be using the phone in any way without permission from the instructor will be sent home for the day with an absence.

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## **COURSE OUTLINE**

**Course Outline is subject to change by instructor**

### **Lecture Topics**

- A. Diagnostic Procedures
- B. General Surgery
- C. Genitourinary Surgery
- D. Oral/Maxillofacial Surgery
- E. Plastic/Reconstructive Surgery
- F. Ophthalmic Surgery
- G. Hemostasis/Intraoperative Emergencies

**Monday 1/26/15: *power point, lecture***

**Syllabus, question/answer**

#### **Chapter 13 – Diagnostic Procedures**

- Sources of Patient Data
- Diagnostic Imaging
- Laboratory Reports
- Electrodiagnostic Studies
- Pulmonary Diagnosis
- Endoscopy
- Plethysmography and Phleborheography

**Monday 2/2/15: *exam, power point, lecture***

#### **Chapter 14 – General Surgery**

- Anatomy

- General Instrumentation
- Room Set up
- Positioning
- Draping
- Incisions
- Laparotomy Opening and Closure

**Homework Chapter 14**

**Wednesday 2/9/15: *power point, lecture***

**Homework Chapter 14 due**

**Finish Chapter 14**

- Hernias
- Alimentary Canal Surgery
- Stomas
- Surgery of the Pancreas and Spleen
- Vascular and other procedures
- Breast surgery
- Thyroid, Parathyroid, Tracheal Surgery

**Wednesday 2/16/15: *exam, power point, lecture***

**Chapter 20 – Genitourinary Surgery**

- Anatomy
- Adrenal gland pathology
- Urinary pathology
- Male reproductive pathology
- Diagnostics
- Special Equipment, Instruments and supplies
- Pre-op and Intra-op preparation

**Monday 2/23/15: *power point, lecture***

**Finish Chapter 20**

- Incisions
- Surgical Procedures
- Special Considerations

**Homework Chapter 20**

**Monday 3/2/15: *power point, lecture***

**Homework Chapter 20 due**

**Chapter 18 – Oral and Maxillofacial Surgery**

- Oral Anatomy
- Oral pathology
- Diagnostics
- Oral Procedures
- Maxillofacial Procedures

**Homework Chapter 18**

**Monday 3/9/15: *exam, power point, lecture***

**Homework Chapter 18 due**

**Exam Chapters 14/20**

**Chapter 19 – Plastic and Reconstructive Surgery**

- Anatomy
- Pathology
- Diagnostics
- Special Instrumentation, Supplies, Drugs and Equipment
- Special Considerations

**Spring Break 3/16 through 3/20**

**Monday 3/23/15: power point, lecture**

**Finish Chapter 19**

- Surgical Intervention

**Homework Chapter 19**

**Monday 3/30/13: power point, lecture**

**Homework Chapter 19 due**

**Chapter 16 – Ophthalmic Surgery**

- Anatomy
- Pathology
- Drugs
- Special Considerations

**Easter Holiday 4/6/15**

**Monday 4/13/15: power point, lecture**

**Finish Chapter 16**

- Surgical Interventions

**Homework Chapter 16**

**Monday 4/20/15: exam, power point, lecture**

**Homework Chapter 16 due**

**Exam Chapters 18/19**

**Chapter 8 – Hemostasis and Emergency Situations**

- Hemostasis/blood replacement
- Indications of emergencies
- Objectives and priorities
- EMS

**Monday 4/27/15: power point, lecture**

**Finish Chapter 8**

- CPR
- MH – Malignant Hyperthermia
- Disseminated Intravascular Coagulation
- Syncope
- Convulsions/Seizure/Anaphylaxis
- Radiological/Chemical/Biological Warfare

**Homework Chapter 8**

**Monday 5/4/15: COMPREHENSIVE FINAL EXAM**

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## ACCOMMODATIONS

### DIVERSITY STATEMENT

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

### DISABILITIES STATEMENT

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office through the Guidance and Counseling Centers at Reese Center (Building 8) [716-4606](tel:716-4606), or Levelland (Student Services Building) [716-2577](tel:716-2577).

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## FOUNDATION SKILLS

### BASIC SKILLS—Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks

F-1 Reading—locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 Writing—communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 Arithmetic—performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 Mathematics—approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 Listening—receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 Speaking—organizes ideas and communicates orally.

### THINKING SKILLS—Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason

F-7 Creative Thinking—generates new ideas.

F-8 Decision-Making—specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 Problem Solving—recognizes problems, devises and implements plan of action.

F-10 Seeing Things in the Mind's Eye—organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 Knowing How to Learn—uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 Reasoning—discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

### PERSONAL QUALITIES—Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty

F-13 Responsibility—exerts a high level of effort and perseveres towards goal attainment.

F-14 Self-Esteem—believes in own self-worth and maintains a positive view of self.

F-15 Sociability—demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.



F-16 Self-Management—assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 Integrity/Honesty—chooses ethical courses of action.

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## SCANS COMPETENCIES

C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.

C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

### **INFORMATION - Acquires and Uses Information**

C-5 Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information.

C-8 Uses computers to process information.

### **INTERPERSONAL—Works With Others**

C-9 Participates as members of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves Clients/Customers—works to satisfy customer’s expectations.

C-12 Exercises Leadership—communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates—works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 Works With Diversity—works well with men and women from diverse backgrounds.

### **SYSTEMS—Understands Complex Interrelationships**

C-15 Understands Systems—knows how social, organizational, and technological systems work and operates effectively with them.

C-16 Monitors and Corrects Performance—distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 Improves or Designs Systems—suggests modifications to existing systems and develops new or alternative systems to improve performance.

### **TECHNOLOGY—Works with a Variety of Technologies**

C-18 Selects Technology—chooses procedures, tools, or equipment, including computers and related technologies.

C-19 Applies Technology to Task—understands overall intent and proper procedures for setup and operation of equipment.

C-20 Maintains and Troubleshoots Equipment—prevents, identifies, or solves problems with equipment, including computers and other technologies.



SRGT1541

I \_\_\_\_\_ have received a copy of the South Plains College Student Guide. I understand that I must comply with all areas of the Student Guide as a student in the Surgical Technology and South Plains College.

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Signature

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Date