

**Course Syllabus - Capstone**

COURSE: SRGT1291 Special Topics in Surgery/Operating Room Tech (2 Credit Hours)  
 SEMESTER: Fall 2014 (August-December; 16 Week Semester)  
 CLASS TIMES: Fridays 8:30am – 10:30am  
 INSTRUCTOR: Paul Landsman, CST  
 OFFICE: RC528  
 OFFICE HOURS: By appointment only  
 OFFICE PHONE: Paul Landsman: 806-716-4642  
 E-MAIL: [plandsman@southplainscollege.edu](mailto:plandsman@southplainscollege.edu)  
 PROGRAM FACEBOOK: <https://www.facebook.com/SPCSurgicalTechnology>

**The Surgical Technology Program has a Facebook page at <https://www.facebook.com/SPCSurgicalTechnology>. In addition to the South Plains College website, this Facebook page will be used to keep students up-to-date on program activities, weather delays, South Plains College announcements and will help with program recruitment. “Liking” the Surgical Technology Facebook page is not mandatory, nor are personal Facebook accounts, in order to access this page.**

Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

*“South Plains College improves each student’s life.”*

**GENERAL COURSE INFORMATION**

**COURSE DESCRIPTION**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation, and relevant to the professional development of the student.

This course is a comprehensive review of concepts and skills previously mastered over the course of the Surgical Technology Program. Lectures will follow the Certification Exam review text chosen by the instructor, and will also include class activities, instructor demonstration, student demonstration, and Certification Exam practice testing. Practice testing will occur on the first day of the course to gauge which topics will require even further emphasis and review; and again as the final examination to assess the course’s effectiveness in increasing students’ retention and recall of the information given over the course of the program. Study skills are also addressed, as well as test taking skills.

**STUDENT LEARNING OUTCOMES**

Students will:
1. Increase his/her knowledge base concerning medical terminology, anatomy and physiology, and pharmacology. 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. Explain infectious processes and concepts of wound healing. F-1, F-2, F-5, F-6, F-9, F-11, F-12, C-15, C-16, C-17, C-18, C-19, C-20
3. Discuss the biopsychosocial needs of the perioperative patient, and moral and ethical standards of the Surgical Technologist. F-5, F-6, F-7, F-8, F-9, F-10, F-11, F-12, F-13, F-15, F-16, F-17, C-1, C-3, C-5, C-6, C-7, C-9, C-10, C-11, C-13, C-14, C-15, C-16, C-18, C-19, C-20
4. Explain infectious processes and concepts of wound healing. F-1, F-2, F-5, F-6, F-9, F-11, F-12, C-15, C-16, C-17, C-18, C-19, C-20
5. Demonstrate advanced knowledge of the principles and practice of aseptic technique, and describe the various roles of the sterile and non sterile Surgical Technologist. F-1, F-2, F-5, F-6, F-8, F-9, F-11, F-2, F-13, F-16, F-17, C-1, C-3, C-5, C-6, C-7, C-9, C-14
6. Identify basic surgical instruments/supplies/equipment, and describe proper sterilization practices. F-5, F-6, F-10, F-11, F-12, C-3, C-5, C-6, C-7, C-18, C-19, C-20

## **COURSE OBJECTIVES**

### **Cognitive Domain Objectives:**

- Define advanced medical terms associated with various surgical procedures
- Outline the principles of aseptic technique and operating room safety
- List specific anatomic landmarks important to basic surgical procedures
- Name each surgical position and state safety precautions taken for each position
- Outline preoperative and postoperative duties of the Surgical Technologist
- Explain the intraoperative duties, and roles, of the Surgical Technologist

### **Psychomotor Domain Objectives:**

- Identify basic and specialty surgical instrumentation when shown a picture
- Identify basic and specialty surgical supplies and equipment and describe their uses
- Identify drugs and medications used in surgery followed by their uses, and label information
- Demonstrate proper cleaning, sorting, assembly, and sterilization of instrumentation
- Label surgical incisions and state the procedures that utilize each incision

### **Affective Domain Objectives:**

- Discuss the moral, legal, and ethical issues faced by the Surgical Technologist
- Describe the processes of infection and wound healing
- Describe the steps to basic surgical procedures of various specialties
- Discuss the role of the surgical technologist, and their scope of practice
- Explain the different sterilization methods, as well as each of their advantages, disadvantages

## **OUTCOMES ASSESSMENT METHODS**

### **Formative assessments:**

- Weekly review quizzes
- Official NBSTSA Practice Certification exam (via internet)

### **Summative assessments:**

- Final exam – Practice CST exam (via hardcopy)

(7) Quizzes + (1) Homework	45%
(1) Exam	15%
(1) Final Exam	40%

## **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.

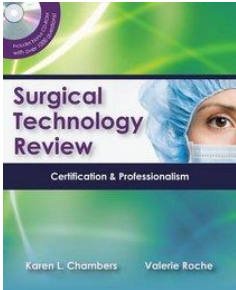
**Plagiarism** - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes,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

## SPECIFIC COURSE INFORMATION

### TEXT AND MATERIALS



Surgical Technology Review: Certification and Professionalism Karen L. Chambers and Valerie Roche, ISBN#978-0-8036-1676-9

### METHODS OF TEACHING

- Question and answer
- Power Point
- Review questions
- Class games

### 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:

<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>

### COMMUNICATION POLICY

Electronic communication between instructor and students in this course will utilize the South Plains College 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. 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

**Friday 8/29/14**

*exam*

**PRE-TEST (NBSTSA Practice CST Exam)**

**Friday 9/5/14**

***Guest Speaker 8:30 to 9:30***

*Lecture, power point, discussion*

**Medical Terminology**

- Terms
- Prefixes, suffixes, root words
- Abbreviations

**The Role of the Surgical Technologist**

- Moral, legal and ethical responsibilities
- Standards of practice, scope of practice
- Code of ethics

**Homework: Pharmacology and Anesthesia**

- Names and uses of drugs
- Administration and handling of drugs
- Surgical Emergencies
- Abbreviations
- Anesthesia assessment
- Types of anesthesia
- Complications of anesthesia

**Friday 9/12/14**

*Quiz, lecture, Jeopardy*

**QUIZ – Medical Terminology, Role of the ST, Pharmacology/Anesthesia**

**Microbiology and Wound Healing**

- The cell
- Tissues and their function
- Membranes
- Bacteria, virus, prion
- The body's defense against disease – immune system
- Process of wound healing

**Sterilization Methods**

- Steam, Gas, Heat, Radiation

- Biological, Chemical and Mechanical monitoring
- Handling contaminated instruments
- Instrument processing

**Friday 9/19/14**

*Quiz, lecture, Squares*

**QUIZ – Microbiology, Wound Healing, Sterilization**

**Equipment, Supplies and Instrumentation**

- Instrument Anatomy/Classification
- Handling/Care of Instrumentation
- General Major and Minor trays
- Diagnostic procedures/instrumentation and equipment
- Specimens

**Friday 9/26/14**

*Continued ...*

- Sutures and Needles
- Sponges/Dressings/Packings
- Drainage tubes/systems
- Syringes and needles
- OR furniture/equipment
- Basic Science

**Friday 10/3/14**

*Quiz, lecture, What is Wrong with this Picture?*

**QUIZ – Equipment, Supplies, Instrumentation, Specimens, Basic Science**

**General Patient Care, Safety Utilizing Aseptic Technique**

- General safety rules/guidelines
- Electrical equipment
- Types of emergencies
- Hazardous materials
- Principles of asepsis
- Case management approach/example

**Friday 10/17/14**

*Quiz, lecture, powerpoint, Memory*

**QUIZ – General Patient Care, Safety, Aseptic Technique**

**General Surgery Procedures**

- Terminology, Anatomy and Physiology
- Instrumentation, draping, positioning, prep
- Incisions
- Overview of common procedures
- Diagnostic procedures
- General procedures

**Friday 10/24/14**

*Quiz, lecture, powerpoint game*

**QUIZ- General**

**OBGYN Procedures**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, positioning, prep, drape
- Special features

- Overview of common procedures
- Diagnostic procedures
- OBGYN procedures

**Friday 10/31/14**

*Quiz, lecture, powerpoint game*

**QUIZ- OBGYN**

**Genitourinary Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, prep, drape, positioning
- Incisions
- Special features
- Overview of common GU procedures
- Diagnostic procedures
- GU procedures

**Ophthalmic Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, positioning, prep, drape
- Special features
- Overview of common ophthalmic procedures
- Ophthalmic procedures

**Friday 11/7/14**

*Quiz, lecture, powerpoint game*

**QUIZ- GU/Eyes**

**ENT Surgery**

- Ear, reasons for surgical intervention
  - Terminology, Anatomy and Physiology
  - Instrumentation, prep, drape, positioning
  - Special features
  - Overview of ear procedures
  - Diagnostic procedures/equipment
- Nose, reasons for surgical intervention
  - Terminology, Anatomy and Physiology
  - Instrumentation, prep, drape, positioning
  - Special features
  - Overview of nasal procedures
  - Diagnostic procedures
  - Nasal procedures
- Throat, reasons for surgical intervention
  - Terminology, Anatomy and Physiology
  - Instrumentation, drape, prep, positioning
  - Special features
  - Overview of throat procedures
  - Diagnostic procedures
  - Throat procedures

**Plastic Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology

- Instrumentation, prep, drape, positioning
- Special features
- Overview of plastic procedures
- Plastics procedures

**Friday 11/14/14**

*Quiz, lecture, game*

**QUIZ – ENT, and Plastic Surgery**

**Orthopedic Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, positioning, prep, drape
- Special features
- Types of orthopedic surgery
- Overview of orthopedic procedures
- Diagnostic procedures
- Orthopedic procedures

**Neurosurgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, prep, drape, positioning
- Special features
- Overview of neurosurgery
- Diagnostic procedures
- Neurosurgical procedures

**Friday 11/21/14**

*Quiz, lecture, Pyramid game*

**QUIZ – Orthopedic and Neurosurgery**

**Cardiothoracic Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, prep, drape, positioning
- Special features
- Overview of cardiothoracic procedures
- Diagnostic procedures
- Cardiothoracic procedures

**Vascular Surgery**

- Reasons for surgical intervention
- Terminology, Anatomy and Physiology
- Instrumentation, prep, drape, positioning
- Special features
- Overview of vascular procedures
- Diagnostic procedures
- Peripheral vascular procedures

**Friday 12/5/14**

*Exam, class activity*

**FINAL EXAM – CST practice exam**

**Exam Taking Strategies**

## Friday 12/12/14 Certification Exam Testing Center

### 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).

### 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.



SRGT1291 - Special Topics in Surgery/Operating Room Tech

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 Program and South Plains College.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date