

### Course Syllabus

COURSE: SRGT 1409 (4:3:4) Fundamentals of Perioperative Concepts and Techniques (4 Credit Hours)  
 SEMESTER: Spring 2014 (January - May; 16 week Semester)  
 CLASS TIMES: Mondays: 12:30pm-4:00pm (Lecture); Tuesdays & Thursdays 8:30am-4:00pm (Lab)  
 INSTRUCTOR: Shannon Valenzuela CST  
 OFFICE: RC 528  
 OFFICE HOURS: Fridays and by appointment only  
 OFFICE PHONE: 806-716-7643  
 E-MAIL: [svalenzuela@southplainscollege.edu](mailto:svalenzuela@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.”*

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## GENERAL COURSE INFORMATION

### COURSE DESCRIPTION

This course provides an in-depth coverage of aseptic technique principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field.

### STUDENT LEARNING OUTCOMES

Students will:
1. Identify and demonstrate principles and practices of aseptic techniques. 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
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. Create and maintain a sterile field utilizing basic case preparation and procedures. 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
4. Assess and meet the biopsychosocial needs of the perioperative patient: 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

### COURSE OBJECTIVES

#### The Cognitive Domain Objectives:

- Learn the difference between a non-sterile and sterile field
- Become familiar with the layout of an OR suite
- Begin to identify the roles of other health care personnel
- Understand the concepts of microbiology
- Learn the basics of instrument care and sterilization

### **The Psychomotor Domain Objectives:**

- Apply theory to practice in lab and Clinical setting
- Scrub in and set up various instruments and supplies for various surgical procedures
- Function as an OR team member
- Perform housekeeping duties necessary for the proper function of the OR
- Scrub hands using proper sterile technique in an appropriate period of time
- Dry hands with one towel without contamination
- Don a sterile gown
- Closed glove and open glove according to sterility of the procedure
- Turn a gown between sterile and non-sterile team members
- Drape and organize a back table appropriately according to procedure
- Aseptically apply and secure dressings appropriate to surgical wound

### **The Affective Domain Objectives:**

- Demonstrate effective listening skills
- Demonstrate ability to work with each member of the surgical team
- Follow directions as given by any member of the surgical team
- Recognize and repair breaks in sterility effectively and quickly
- Properly and safely pass instruments to other sterile team members
- Properly and accurately count all items necessary for the case

## **OUTCOMES ASSESSMENT METHODS**

Assessment methods for this course are both formative and summative.

Formative assessments include:

- Discussions
- Quizzes
- Unit exams
- Laboratory evaluations

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 - CAPSTONE EXPERIENCE

This course is a capstone course that includes a summative assessment of all lab skills learned throughout all courses in this semester. The lab skills final is a simulation of workplace and employment scenarios. Students will not progress to the next semester if this experience is not mastered.

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## SPECIFIC COURSE INFORMATION

### TEXT AND MATERIALS



1. Surgical Technology for the Surgical Technologist: A Positive Care Approach, 4th ed., AST (**Text**)
2. Surgical Technology for the Surgical Technologist: A Positive Care Approach, 4<sup>th</sup> ed., AST (**Study Guide and Lab Manual**)
3. SPC Surgical Technology Laboratory Manual 2014, SPC Surgical Technology Faculty, SPC Bookstore Reese Campus

### METHODS OF TEACHING

- Lecture
- PowerPoint Presentations
- Role playing
- Demonstration
- Question and answer
- Review
- Quizzes
- Examinations

### ATTENDANCE POLICY

Class attendance is mandatory. Students are allowed three (3) absences and will be administratively withdrawn on the fourth (4<sup>th</sup>) 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 means reading the assigned chapters and/or pages from the textbook or handouts given. In some instances, information from the reading assignments not covered during class may be included on a test.

**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 and a comprehensive final exam. Exam dates will be announced. The following are guidelines regarding exams:

1. The student is expected to complete the exam at the scheduled time. Make-up exams will **not** be offered. If a student is late on an exam day, the student will not be permitted to take the exam, and a grade of zero (0) will be given.
2. Late assignments will not be accepted.
3. Students will have one chance to pass the summative lab skill assessment. If a student is unable to pass the assessment, they will not advance to the next semester. ***Students must pass the lab skills final exam with at least an 80% in order to continue in the program.***
4. The didactic final exam is comprehensive.
5. The laboratory skills exam is comprehensive.
6. The last week of the semester is dedicated to the Summative Lab Final for SRTG 1409, 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 mandatory.

Homework	15%
Exams	25%
Comprehensive Written Final Exam	20%
Lab Final Exam	40%

<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 final grade average of C (75) must be maintained in all Surgical Technology classes. You must pass all courses to proceed to the next semester.

**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.

## COURSE OUTLINE

*Course outline is subject to change by instructor.*

### Lecture Topics

- A. Asepsis and Sterile Technique
- B. Instrumentation, Equipment, and Supplies
- C. Surgical Case Management

Tuesday 1/21/14, 8:30am: **power point, lecture, videos**

Syllabus, question/answer

### Chapter 9 – Microbes and the Process of Infection

- Pathogens and Infection
- Pathogens associated with surgical site infection (SSI)
- Methods of transmission
- Factors that increase risk of SSI

### Homework Chapter 9

Mondays:

**power point, lecture, videos**

Homework Chapter 9 Due

### Chapter 10 – Asepsis and Sterile Technique

- Concepts and definitions
- Health and hygiene
- Surgical attire
- Gowning and gloving
- Opening a case
- Contamination
- Reality vs. Standards
- Evidence based practice

### Homework Chapter 10

**power point, lecture, demonstration**

Homework Chapter 10 due

Exam Chapter 9/10

### Chapter 20– Surgical Preparation – Part I

- Critical thinking
- Positive care approach
- Anticipation
- Preoperative routines
- Attire
- Scrubbing and donning sterile attire

**power point, lecture, demonstration**

### Chapter 21 – Case Management – Part I

- Personal protective equipment
- Sterile attire, gowning and gloving
- Preparing the OR
- OR setup
- Gathering instrumentation and supplies

**power point, lecture, demonstration**

**Continue Chapter 21 – Part II**

- Creating and maintaining the sterile field
- Organizing sterile instruments and supplies
- Surgical counts
- Organizing the mayo stand

**Homework Chapter 21**

**power point, lecture, demonstration**

**Continue Chapter 20 – Part II**

- Patient transport
- Thermoregulation
- Transfer
- Urethral catheterization
- Surgical positioning

**Homework Chapter 20**

**power point, lecture, demonstration**

**Chapter 20 – Part III**

- Draping the surgical patient
- Positioning team members
- Marking the incision

**Chapter 21 – Part III**

- Intraoperative case management
- Communication
- Passing instruments/supplies
- Maintaining order, additional supplies

**power point, lecture, demonstration**

**Homework Chapter 20 due**

**Chapter 21 – Part IV**

- Postoperative case management
- Preservation of the sterile field
- Breakdown of the setup

**Begin Chapter 22**

**Review Chapters 20/21**

**Homework Chapter 22**

**exam, power point, lecture**

**Homework Chapter 21 due**

**Exam Chapters 20/21**

**Finish Chapter 22**

**Chapter 11 – Decontamination, Sterilization, and Disinfection – Part I**

- Surgical Conscience
- Basic Terminology
- History of Sterilization
- Sterilization Principles

**power point, lecture**

**Homework Chapter 22 due**

## Chapter 11 – Part II

- Disinfection Principles
- Sterilization principles and processes
- Event related sterility

## Review Chapter 9

## Homework Chapter 11

**exam, power point, lecture, demonstration**

## Homework Chapter 11 due

## Exam Chapter 22/11

## Chapter 12 – Instrumentation, Equipment and Supplies

- Instrumentation, classification, use, care
- Specialty equipment
- Accessory Equipment
- Supplies

## Homework Chapter 12

**power point, lecture, demonstration**

## Homework Chapter 12 due

Finish remaining lectures and review previous material

**hospital instrument room day (UMC/Covenant)?**

**exam, power point, lecture, review**

## Homework Chapter 10 due

## Exam Chapter 10/12

## CST Review

**COMPREHENSIVE FINAL EXAM**

**(lab skills finals)**

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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 Special 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 Coordinator of Special Services. For more information, call or visit the Special Services Office in rooms 809 and 811, Reese Center Building 8, (806) 885-3048 ext. 4654.

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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.

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August 2012



SRGT1409 Fundamentals of Perioperative Concepts

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.

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Signature

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Date