

**Course Syllabus**

COURSE: SRGT 1405 (4:3:4) Introduction to Surgical Technology (4 Credit Hours)  
 SEMESTER: Spring 2015 (January - May; 16 week Semester)  
 CLASS TIMES: Tuesday 8:30am – 11:30am (Lecture), Tuesday 12:30pm – 4:00pm (Lab)  
 INSTRUCTOR: Paul Landsman  
 OFFICE: RC512  
 OFFICE HOURS: Fridays or by appointment only  
 OFFICE PHONE: 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**

This course provides an orientation to surgical technology theory, surgical pharmacology and anesthesia, and patient care concepts.

**STUDENT LEARNING OUTCOMES**

Students will:
1. Understand surgical technology theory as it applies to the operating room. F-1, F-2, F-5, F-6, F-7, F-8, F-9, C-5, C-6, C-7, C-15
2. Identify various instrumentation sets. F-5, F-6, F-10, F-11, F-12, C-3, C-5, C-6, C-7, C-18, C-19, C-20
3. Describe the needs of the patient. F-1, F-2, F-5, F-6, F-8, F-9, C-5, C-6, C-7, C-8, C-11, C-14
4. Identify various credentials in the operating room. F-1, F-2, F-5, F-6, F-13, F-14, F-15, C-5, C-6, C-7, C-8
5. Be able to meet needs of the surgical patient during the pre-operative stage. F-1, F-2, F-5, F-6, F-7, F-8, F-10, F-12, F-17, C-1, C-3, C-5, C-7, C-9, C-10, C-11, C-12, C-15, C-19, C-20
6. Be able to meet needs of the surgical patient during the operative stage. F-1, F-2, F-5, F-6, F-7, F-8, F-10, F-12, F-17, C-1, C-3, C-5, C-7, C-9, C-10, C-11, C-12, C-15, C-19, C-20

**COURSE OBJECTIVES**

**The Cognitive Domain Objectives:**

- Define good and bad stressors
- State the reasons for surgical intervention

- Identify hospital organization structures
- List the chain of command in the operating room
- Describe environmental conditions in the OR and the purpose that each serves
- Define surgical conscience and ethics
- State the principles of Standard Precautions
- List members of the OR team and describe their duties
- List and define medical specialties
- List and define the uses of accessory equipment
- Describe types of wound healing
- Define the process of infection and types of wound infections
- Describe types, sizes, and uses of needles and sutures
- List types and purposes of dressings, sponges, and packing
- List tumor classifications
- Define the Patient's Bill of Rights
- Describe the steps for sponge, needle, and instrument counts
- List types of specimens and their care
- Identify historical figures who helped develop early microbiology and asepsis
- List historical theories in microbiology
- List the types of anesthesia care
- Describe inhalation anesthesia
- List physiological requirements for surgery
- List the use of common operative table accessories
- List characteristics of common surgical prep solutions
- List categories of controlled substances
- List basic needs types and their applications
- Recognize commonly used stapling devices

**The Psychomotor Domain Objectives:**

- Apply theory to practice in lab and Clinical settings
- Explain why preoperative fasting is important
- Differentiate among analgesia, sedation, unconsciousness, and amnesia
- Use the correct procedure to identify inhalant
- Describe the principles of safe positioning
- Identify necessary precautions to prevent injury associated with skin preparation
- List the proper technique for draping the patient for torso, limb, and lithotomy procedures
- Accurately define and use terminology describing drug handling and drug administration
- Identify the parts of a syringe and explain the importance of syringe safety features
- Recognize suture properties and materials by observing and handling suture
- Identify sutures by package labeling, and select proper sutures

**The Affective Domain Objectives:**

- Understand the importance of stress management
- Recognize the professional roles and competencies of the surgical technologists
- Understand the consequences of not adhering to Standard Precautions

- Recognize the importance of Patient's rights
- Discuss blood handling, blood loss, and cell savers
- Discuss special needs patients
- Describe the responsibilities of the surgical technologist in patient transport and transfer
- Demonstrate the transfer of patient from a stretcher to the operating table
- Demonstrate commonly used methods of patient positioning
- Discuss the concepts of body hair management prior to surgery
- Discuss the proper procedure to perform the surgical skin preparation for all areas of the body
- Discuss the aspects of drug action
- Demonstrate proper preparation of suture for use
- Discuss the process of wound healing
- Discuss the complications of wound healing
- Discuss possible post-anesthesia risks
- Discuss process of patient discharge
- Discuss the process of dying and death

### **OUTCOMES ASSESSMENT METHODS**

Assessment methods for this course are both formative and summative.

Formative assessments include:

- discussions
- quizzes
- unit exams
- classroom activities
- lab activities

Summative assessment:

- 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.

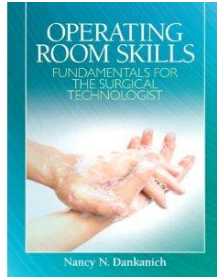
### **SCANS and FOUNDATION SKILLS**

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

### **VERIFICATION OF WORKPLACE COMPETENCIES - CAPSTONE EXPERIENCE NOT INCLUDED**

## SPECIFIC COURSE INFORMATION

### TEXT AND MATERIALS



1. Surgical Technology for the Surgical Technologist: A Positive Care Approach, 4<sup>th</sup> 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. Operating Room Skills: Fundamentals for the Surgical Technologist, Nancy Dankanich

### METHODS OF TEACHING:

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

### 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 will be given if the student is not present for class or lab within 5 minutes of the beginning 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. 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, quizzes, homework, lab work and a comprehensive final exam. Exam dates will be announced. The following guidelines are provided 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 didactic final exam is comprehensive.
4. The final instrument exam is comprehensive.
5. The last two weeks of the semester is dedicated to the Summative Lab Final for SRTG 1409, due to the complexity and length of this final.

(6) Homework	10%
(3) Exams	20%
(1) Comprehensive Didactic Final Exam	25%
(4) Instrument Tests	20%
(1) Comprehensive Instrument Final	25%

<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.

**There are no stupid questions. If you have a question, please ask.**

**You are under no pressure to sound like a genius every time you speak!**

**You are primarily in lab to practice skills, not to check and update facebook which seems to be the popular thing to do in class.**

**Your participation in the form of questions, comments and feedback is invited and appreciated. However, every semester there’s at least one person who incessantly asks questions just to try to be funny, argue, or cause trouble. Nobody appreciates this behavior and it is counter productive. You know who you are, please leave those attributes in your car on the way into the building.**

### **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. Orientation to Surgical Technology
- B. Standards of Conduct
- C. Physical Environment and Safety Hazards
- D. The Surgical Patient
- E. Special Populations
- F. Biomedical Science

Tuesday 1/20/15: **power point, lecture**

Syllabus, question/answer

**Chapter 1 – Orientation to Surgical Technology**

- History of Surgery
- Surgery today – Surgical Specialties
- Field of Surgical Technology
- The Surgical Technologist as a Professional

Tuesday 1/27/15: **power point, lecture**

**Finish Chapter 1**

- Clinical Ladder Program
- Communication and Teamwork
- Surgical Conscience
- Health Care Facilities
- Hospital Organization

**Homework Chapter 1**

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

**Chapter 1 Homework due**

**Chapter 2 – Standards of Conduct**

- Legal issues
- Ethical and moral issues

● **INSTRUMENT TEST SETS 1-2**

Tuesday 2/10/15: **power point, lecture, class activity**

**Finish Chapter 2**

- Scope of practice
- Risk management and liability

**Homework Chapter 2**

Tuesday 2/17/15: **exam, power point, lecture**

**Chapter 2 Homework due**

**Exam Chapters 1/2**

**Chapter 5 – Physical Environment and Safety Hazards**

- Physical design of the surgery department
- Hazards and regulatory agencies
- Safety considerations

● **INSTRUMENT TEST SETS 1-4**

Tuesday 2/24/15: **power point, lecture**

**Finish Chapter 5**

- Biological hazards and safety considerations
- Chemical hazards and safety considerations

**Homework Chapter 5**

Tuesday 3/3/15: **power point, lecture**

Homework Chapter 5 due

Chapter 3 – The Surgical Patient

- The STSR and the surgical patient
- Physical, Psychological, Social, and Spiritual needs of the surgical patient
- Understanding the surgical patient as a human being

• **INSTRUMENT TEST SETS 1-6**

Tuesday 3/10/15: **power point, lecture, guest speaker?**

Finish Chapter 3

- Understanding the surgical patient as a human being

Homework Chapter 3

**\*\*\*Spring Break – 3/16 Through 3/20\*\*\***

Tuesday 3/24/15: **exam, power point, lecture**

Homework Chapter 3 due

Exam Chapters 5/3

Chapter 4 – Special Populations

- Life stage development
- Pediatric patients
- Patients with obesity
  
- Patients with diabetes
- Pregnant patients
- Immunocompromised patients

Tuesday 3/31/15: **power point, lecture, guest speaker?**

Finish Chapter 4

- Patients with disabilities
- Isolation patients
- Geriatric patients
- Trauma patients
- Considerations for the ST/Preparation of the case

Homework Chapter 4

• **INSTRUMENT TEST SETS 7-8**

Tuesday 4/7/15: **power point, lecture**

Homework Chapter 4 due

Chapter 6 – Biomedical Science

- Computers
- Electricity

Tuesday 4/14/15: **power point, lecture**

Finish Chapter 6

- Physics
- Surgical Robots
- The OR of the future/role of the ST

Homework Chapter 6

● **INSTRUMENT FINAL**

Tuesday 4/21/15: **exam, power point, review**

Homework Chapter 6 due

Exam Chapters 4/6

Tuesday 4/28/15: **COMPREHENSIVE FINAL EXAM**

5/4/15 through 5/14/15: (Scheduled comprehensive 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 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.



SRGT1405 Introduction to Surgical Technology

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