

TESU 1040 - Principles and Practices of Surgical Technology (3 Credits)

Course Description

The Principles and Practices of Surgical Technology course will introduce students to wound management, and healing. They will be familiar with perioperative care and the principles of asepsis, and attain skills for patient positioning, prepping, and draping.

Course Objectives

- Explain hemostasis, wound healing, and tissue closure
 - Outline perioperative case management
 - Demonstrate the principles of asepsis
 - Analyze patient prepping and positioning
 - Differentiate stapling and closure devices
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Course Outline

- Equipment, Instruments, and Supplies
 - The Integumentary System and Hemostasis
 - Surgical Case Management
 - Final Exams
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Textbook & Reading Materials

Cengage Unlimited Subscription, Cengage

Assignments and Assessments

Orientation

TESU 1040 Syllabi

Surgical Instrumentation Book

Instruments per week.pdf

Chapter 10 Surgical Technology

Specialty Equipment PowerPoint

Instrument Classification Assignment

Principles and Practices of Surgical Technology

Section 2: Principles and Practice of Surgical Technology

Chapter 10: Instrumentation, Equipment, and Supplies

Prepare

What You Will Learn

Read

Instrumentation, Equipment, and Supplies

Study

Key Terms for Chapter 10

Chapter 10 Flashcards - Terms

Select the Correct Answer Exercise 10.1

Videos (3)

Matching Exercise 10.03

Select the Correct Answer Exercise 10.5

Do

Chapter 10 Certification Style Exam Quiz

Principles and Practices of Surgical Technology

Chapter 01: History of Surgical Instrumentation

Learn It

Read: Chapter 01 History of Surgical Instrumentation

Chapter 02: Anatomy and Physiology of Surgical Instrumentation

Learn It

Read: Chapter 02 Anatomy and Physiology of Surgical Instrumentation

Study It

Video: Chapter 02 Anatomy and Physiology of Surgical Instrumentation

Instrument Identification Activity: Chapter 02 Anatomy and Physiology of Surgical Instrumentation

Chapter 03: Categories of Surgical Instrumentation

Learn It

Read: Chapter 03 Categories of Surgical Instrumentation

Study It

Flashcards: Chapter 03 Categories of Surgical Instrumentation

Video: Chapter 03 Categories of Surgical Instrumentation

Chapter 04: Considerations for Instrument Set Assembly

Learn It

Read: Chapter 04 Considerations for Instrument Set Assembly

Study It

Video: Chapter 04 Considerations for Instrument Set Assembly

Chapter 05: Soft Tissue Foundation Sets

Learn It

Read: Chapter 05 Soft Tissue Foundation Sets

Study It

Flashcards: Chapter 05 Soft Tissue Foundation Sets

Video: Chapter 05 Soft Tissue Foundation Sets

Instrument Identification Activity: Chapter 05 Soft Tissue Foundation Sets

Chapter 06: Plastic Surgery Instrumentation

Learn It

Read: Chapter 06 Plastic Surgery Instrumentation

Study It

Flashcards: Chapter 06 Plastic Surgery Instrumentation

Chapter 07: General Surgery Instrumentation

Learn It

Read: Chapter 07 General Surgery Instrumentation

Study It

Flashcards: Chapter 07 General Surgery Instrumentation

Chapter 08: Gynecologic Instrumentation

Learn It

Read: Chapter 08 Gynecologic Instrumentation

Study It

Flashcards: Chapter 08 Gynecologic Instrumentation

Chapter 09: Urologic Instrumentation

Learn It

Read: Chapter 09 Urologic Instrumentation

Study It

Flashcards: Chapter 09 Urologic Instrumentation

Chapter 10: Basic Bone and Joint Instrumentation

Learn It

Read: Chapter 10 Basic Bone and Joint Instrumentation

Study It

Flashcards: Chapter 10 Basic Bone and Joint Instrumentation

Chapter 11: Head and Neck Procedure Instrumentation

Learn It

Read: Chapter 11 Head and Neck Procedure Instrumentation

Flashcards: Chapter 11 Head and Neck Procedure Instrumentation

Chapter 12: Neurosurgery Instrumentation

Learn It

Read: Chapter 12 Neurosurgery Instrumentation

Study It

Flashcards: Chapter 12 Neurosurgery Instrumentation

Chapter 13: Cardiothoracic and Vascular Instrumentation

Learn It

Read: Chapter 13 Cardiothoracic and Vascular Instrumentation

Study It

Flashcards: Chapter 13 Cardiothoracic and Vascular Instrumentation

Chapter 14: Microsurgery Instrumentation

Learn It

Read: Chapter 14 Microsurgery Instrumentation

Study It
Flashcards: Chapter 14 Microsurgery Instrumentation
Chapter 15: Endoscopic Instrumentation
Learn It
Read: Chapter 15 Endoscopic Instrumentation
Study It
Flashcards: Chapter 15 Endoscopic Instrumentation
Chapter 16: Decontamination and Sterilization
Learn It
Read: Chapter 16 Decontamination and Sterilization
Study It
Video: Chapter 16 Decontamination and Sterilization
Apply It
Critical Thinking Exercise: Chapter 16 Decontamination and Sterilization
Module 1 Quiz- Requires Respondus LockDown Browser
Chapter 10 Surgical Technology Case Study
Duties of a Surgical Technologist
Chapter 5 Anatomy and Physiology PowerPoint
Principles and Practices of Surgical Technology
Chapter 5: Tissues
Reality Check
5. Reality Check
5-A. Reality Check
5-B. Reality Check
Study Time
5. Summary Outline
5. Flashcards
5. Lecture Notes
5. Search and Explore
Introduction
Introduction; Epithelial Tissue
Quick Quick Check: Matching 5.2
Connective Tissue; Muscle Tissue; Nervous Tissue
Quick ,check: Matching 5.3
Quick ,check: Matching 5.4
5. Homework
5. App'ly Yourself: Learning Lab
5. Test Yourself
Chapter 6 Anatomy and Physiology PowerPoint
Chapter 6: The Integumentary System
Reality Check
6. Reality Check
6-A. Reality Check
6-B. Reality Check
Anatomy and Physiology
Anatomy and Physiology
Quick Quick ,check: Labeling 6.2
Quick ,check: Labeling 6.3
Body Systems Working Together
Pathology
Common Disease, Disorder, or Condition: Burns
Quick ,check: Matching 6.1
Common Disease, Disorder, or Condition: Skin Cancer

Common Disease, Disorder, or Condition: Disorders of the Integumentary System
Quick ,check: Matching 6.2
Study Time
6. Summary Outline
6. Flashcards
6. Lecture Notes
6. Search and Explore
Chapter Homework
6. Homework
Introduction
6. App'ly Yourself: Learning Lab
6. Test Yourself
Chapter 12 Medical Terminology PowerPoint
Principles and Practices of Surgical Technology
Chapter 12 Skin: The Integumentary System
Chapter Introduction
Chapter 12 Introduction
Struct ures and Functions; Medical Specialties
Functions of the Integumentary System
The Struct ures of t he Skin and its Related Struct ures
Medical Specialties Related to the Integumentary System
12.1 Check Your Understanding: Word Part Mastery
12.2: Check Your Understanding: Building Terms
12.1 Image Labeling
Pathology
Pathology of the Integumentary System
12.4 Check Your Understanding: Word Part Mastery
12.5: Check Your Understanding: Building Terms
12.6 Check Your Understanding: Vocabulary
12.7 Check Your Understanding: Spelling Terms
Apply It: 12.1 Medical Term Identifi cation
Diagnosis and Treatment
Diagnostic Procedures of t he Integumentary System
Treatment Procedures of t he Inte,gumentary System
12.8 Check Your Understanding: Word Part Mastery
12.9 Check Your Understanding: Building Terms
12.10 Check Your Understanding: Vocabulary
12.11 Check Your Understanding: Spelling Terms
Study It
Chapter 12 Pronunciation Review
Chapter 12 Flashcards
Chapter 12 Lecture Notes
Review It: Word Parts and Abbreviations Learned in Previous Chapters
12.1 Recall Word Parts Learned in Chapters 8-11
12.2 Recall Abbreviations Learned in Chapters 8-11
Read Chapter 12 Skin: The Integumentary System
Abbreviations
12.12 Check Your Understanding: Abbreviations
Quiz: Chapter 12 Pronounce
Quiz: Chapter 12 Skin: The Integumentary System
Apply It: Chapter 12 The Human Touch Critical Thinking Exercise

Apply lit: 12.1 Medical Terminology at Work
Apply lit: 12.1 Apply Terms Learned in Chapters 7-11
Chapter 11 Surgical Technology PowerPoint
Chapter 11: Hemostasis, Wound Healing, and Wound Closure
Prepare
What You Will Learn
Read
Hemostasis, Wound Healing, and Wound Closure
Study
Key Terms for Chapter 11
Chapter 11 Flashcards - Terms
Matching Exercise 11.01
Do
Chapter 11 Certification Style Exam Quiz
Module 2 Quiz- Requires Respondus LockDown Browser
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chp 11 pt.1
chp 11 pt2
Chapter 11 Surgical Technology Case Study
Stapler PowerPoint
Instrument Quiz weeks 8-12
Chapter 12 Surgical Technology PowerPoint
Chapter 12: Surgical Case Management
Prepare
What You Will Learn
Read
Surgical Case Management
Study
Key Terms for Chapter 12
Chapter 12 Flashcards - Terms
Videos - Back Table and Prepping Videos
Matching Exercise 12.01
Videos - Positioning
Matching Exercise 12.02
Matching Exercise 12.03
Do
Chapter 12 Certification Style Exam Quiz
Module 3 Quiz- Requires Respondus LockDown Browser
Chapter 12 Surgical Technology Case Study
Final Exam- Requires Respondus LockDown Browser
End of Course Survey

Subject to change. Please consult your Canvas course for the most current instructions and updates.

Classroom Hours

Start: 4-1-2025

End: 7-17-2025

Tu, Th

8:00 AM - 11:00 AM

For a full list of course hours visit: [Course Schedule](#)

Instructor Contact Information

Samantha Herbaugh — sherbaugh@stech.edu

Kellie Peacock — kpeacock@stech.edu

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 24 hours during regular business hours.

Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- stech.instructure.com
- For Canvas, Passwords, or any other computer-related technical support contact Student Services.
- Regular Hours and Weekdays (435) 586 - 2899
- After Hours & Weekends (435) 865 - 3929 (Leave a message if no response)

Course Policies

Student must adhere to the Program Safety, Performance Standards, and code of conduct outlined in the Surgical Technology Policies and Procedures.

Each assignment is awarded points according to how well the submission follows the requirement of the assignment. Students must maintain a minimum of 80% in the course. The assignment groups weight will be as follows: assignments 40%, module quizzes 25%, lab pass-offs and participation 15%, and the final exam 20%. If a student scores less than 80% on a final exam, he/she will have the opportunity to retake the exam for a second attempt. If a student fails to pass the final exam or the course with a minimum of 80%, the student will be dismissed from the program.

If at anytime a student falls below the 80% course minimum, a meeting will be scheduled with the student and instructor/s to discuss make-up opportunities or actions the student may take to improve their grades. Students are expected to attend all scheduled courses at the provided time. Each student must maintain a minimum of 80% attendance in the program. If you are going to be absent, communication with the instructor is required to set up time to make up the time missed. This make up time will be scheduled at the convenience of the instructors. Failure to meet the required attendance standards will result in program dismissal.

You may use your cell phones at your own discretion. NO USING CELL PHONES DURING CLASS PRESENTATIONS OR QUIZZES/EXAMS. CELL PHONES ARE NOT ALLOWED IN THE LAB.

High School Power School Grades: Quarter student grades will be determined by student progress percentage. Faculty will use the higher percentage of either 1) quarter progress, or 2) cumulative progress for the current training plan year. The progress percentage will be used with the grading scale to determine the minimum grade. High School Grade Scale: The following grading scale will be used to determine a letter grade from the progress percentage:

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|---------------|---------------|---------------|---------------|
| • A 94 - 100% | • B 83 - 86% | • C 73 - 76% | • D 63 - 66% |
| • A- 90 - 93% | • B- 80 - 82% | • C- 70 - 72% | • D- 60 - 62% |
| • B+ 87 - 89% | • C+ 77 - 79% | • D+ 67 - 69% | • F 0 - 59% |

Additional Information

InformaCast Statement: Southwest Tech uses InformaCast to ensure the safety and well-being of our students. In times of emergency, such as weather closures and delays, this app allows us to promptly deliver notifications directly to your mobile devices. To stay informed and receive real-time updates, we encourage all students to sign up for notifications. Your safety is our priority, and staying connected ensures a swift response to any unforeseen circumstances. More information and directions for signing up are available at: <https://stech.edu/emergency-notifications/>

Internet Acceptable Use Policy: The student is expected to review and follow the Southwest Technical College Internet Safety Policy at: <https://stech.edu/students/policies/>

Student Code of Conduct Policy: The student is expected to review and follow the Southwest Technical College Student Code of Conduct Policy at: <https://stech.edu/students/policies/>

Accommodations: Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, must contact the Student Services Office. Student Services determines eligibility for and authorizes the provision of these accommodations and services. Students must voluntarily disclose that they have a disability, request an accommodation, and provide documentation of their disability. Students with disabilities may apply for accommodations, based on an eligible disability, through the Student Services office located at 757 W. 800 S., Cedar City, UT 84720, and by phone at (435) 586-2899. No diagnostic services are currently available through Southwest Technical College.

Safety and Building Maintenance: The College has developed and follows a variety of plans to ensure the safe and effective operation of its facilities and programs. The following plans are available online:

1) Facilities Operations and Maintenance Plan; 2) Technical Infrastructure Plan; and 3) Health and Safety Plan.

Withdrawals and Refunds: Please refer to the Southwest Technical College Refund Policy at: <https://stech.edu/students/policies/>

Any high school or adult student, who declares a technical training objective is eligible for admission at Southwest Technical College (Southwest Tech). Program-specific admissions requirements may exist and will be listed on the Southwest Tech website. A high school diploma or equivalent is not required for admission but is mandatory for students seeking Title IV Federal Financial Aid.

Non-Discriminatory Policy: Southwest Technical College affirms its commitment to promote the goals of fairness and equity in all aspects of the educational enterprise, and bases its policies on the idea of global human dignity.

Southwest Tech is committed to a policy of nondiscrimination. No otherwise qualified person may be excluded from participation in or be subjected to discrimination in any course, program or activity because of race, age, color, religion, sex, pregnancy, national origin or disability. Southwest Technical College does not discriminate on the basis of sex in the education programs or activities that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about Title IX and its regulations to STECH may be referred to the Title IX Coordinator, to the Department of Education, and/or to the Office for Civil rights.

If you believe you have experienced discrimination or harassment on our campus, please contact the Title IX Coordinator, Cory Estes: cestes@stech.edu, (435) 865-3938.

For special accommodations, please contact the ADA Coordinator, Cyndie Tracy: ctracy@stech.edu, (435) 865-3944.

Southwest Technical College

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