

TESU 1070 - Surgical Procedures III (3 Credits)

Course Description

The Surgical Procedures III course will review surgical specialties and differentiate anatomy, physiology, and instrumentation pertaining to the specialty. They will demonstrate several procedures set ups throughout the specialties.

Course Objectives

- Discuss select instrumentation, equipment, supplies, and drugs used for the relevant specialties.
 - Analyze relevant body systems and related pathophysiology leading to surgeries
 - Review relevant medical terminology
 - Demonstrate surgical case set ups
 - Assess perioperative care and complications
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Course Outline

- The Skeletal System and Orthopedic Surgery
 - The Cardiovascular and Circulatory Systems and Cardiothoracic and Peripheral Vascular Surgery
 - Final Exams
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Textbook & Reading Materials

Cengage Unlimited Subscription, Cengage

Assignments and Assessments

Orientation	Functions, Structures and Medical Specialties of the Skeletal System
TESU 1070 Syllabi	
Chapter 7 Anatomy/Physiology PowerPoint	3.1 Check Your Understanding: Word Part Mastery
Surgical Procedures III	3.2: Check Your Understanding: Building Terms
Chapter 7: The Skeletal System	3.3 Check Your Understanding: Vocabulary
Reality Check	3.4 Check Your Understanding: Spelling Terms
7. Reality Check	3.1 Image Labeling
7-A. Reality Check	Pathology
Anatomy and Physiology	Pathology of the Skeletal System
Anatomy and Physiology	3.5 Check Your Understanding: Word Part Mastery
Quick ,check: Labeling 7.1	3.6: Check Your Understanding: Building Terms
Quick ,check: Labeling 7.2	3.8 Check Your Understanding: Spelling Terms
Quick ,check: Labeling 7.3	3.2 Image Labeling
Quick ,check: Labeling 7.4	Apply lit: 3.2 Image Identification
Quick ,check: Labeling 7.5	Diagnosis and Treatment
Quick ,check: Labeling 7.6	Diagnosis and Treatment of the Skeletal System
Quick ,check: Labeling 7.8	3.9 Check Your Understanding: Word Part Mastery
Quick Check: Labeling 7.9	3.10: Check Your Understanding: Building Terms
Quick ,check: Labeling 7.10	3.11 Check Your Understanding: Vocabulary
Body Systems Working Together	3.12 Check Your Understanding: Spelling Terms
Pathology	Apply lit: 3.3 Medical Term Translation
Common Disease, Disorder, or Condition: Disorders of the Skeletal System I	Study It
Common Disease, Disorder, or Condition: Disorders of the Spine	Chapter 3 Pronunciation Review
Common Disease, Disorder, or Condition: Disorders of the Skeletal System II	Chapter 3 Flashcards
Quick ,check: Matching 7.1	Chapter 3 Lecture Notes
Study Time	Read Chapter 3 The Skeletal System
7. Summary Outline	Abbreviations
7. Flashcards	3.13 Check Your Understanding: Abbreviations
7. Lecture Notes	Quiz: Chapter 3 Pronounce
7. Search and Explore	Quiz: Chapter 3 The Skeletal System
Chapter Homework	Apply lit: Chapter 3 The Human Touch Critical Thinking
7. Homework	Exercise
Introduction	Apply lit: 3.1 Medical Terminology at Work
7. Test Yourself	Chapter 21 Surgical Technology PowerPoint
Chapter 3 Medical Terminology PowerPoint	Surgical Procedures III
Surgical Procedures III	Section 3: Surgical Procedures
Video Library	Chapter 21: Orthopedic Surgery
Chapter 3	Prepare
Key Word Parts for the Skeletal System	What You Will Learn
Joints	Anatomy & Physiology Review
Identifying the Major Bones	Read
Divisions of the Back	Orthopedic Surgery
Spinal Cord Injuries	Review Surgical Procedures
Curvatures of the Spine	Procedure 21-1: Shoulder Arthroscopy
Analyzing and Defining Terms for the Skeletal System	Procedure 21-2: Bankart Procedure, Open
Diseases of the Skeletal System	Procedure 21-3: Bankart Procedure, Arthroscopic with Suture Anchors
Chapter 3 The Skeletal System	Procedure 21-4: Acromioplasty, Open
Chapter Introduction; Structures and Functions; Medical Specialties	Procedure 21-5: Acromioplasty, Arthroscopic
Chapter 3 Introduction	Procedure 21-6: Total Shoulder Arthroplasty
	Procedure 21-7: External Fixation of a Colles' Fracture
	Procedure 21-8: ORIF Radius
	Procedure 21-9: ORIF Hip Fracture

Procedure 21-10: Total Hip Arthroplasty; Posterior; Interlocking
 Aoro;ich
 Procedure 21-11: Repair of Femoral Shaft Fracture with AO
 Titanium Femoral Nail System
 Procedure 21-12: Arthroscopy of the Knee Joint with Repair
 of Torn Meniscus
 Procedure 21-13: ACL Repair
 Procedure 21-14: Above-the-Knee Amputation (AKA)
 Procedure 21-15: Below-the-Knee Amputation (BKA)
 Procedure 21-16: Total Knee Arthroplasty (TKA)
 Procedure 21-17: Triple Arthrodesis
 Procedure 21-18: Achilles' Tendon Repair
 Procedure 21-19: Bunionectomy
 Study
 Key Terms for Chapter 21
 Chapter 21 Flashcards - Terms
 Animations (6)
 Videos (7)
 Matching Exercise 21.02
 Matching Exercise 21.03
 Do
 Chapter 21 Certification Style Exam Quiz
 Mayo Stand Setup - Basic ORIF Radius Fracture: Setup-
 Exposure
 Mayo Stand Setup - Basic ORIF Radius Fracture: Fracture
 Reduction
 Module 1 Quiz- Requires Respondus LockDown Browser
 Anatomy/Physiology/Medical Term In Class Assignment
 Chapter 21 Surgical Technology Case Study
 Femur Fracture Mock Lab
 Chapter 13 Anatomy/Physiology PowerPoint
 Chapter 13: The Blood
 Reality Check
 13. Reality Check
 13-A. Reality Check
 Anatomy and Physiology
 Anatomy and Physiology
 Quick ,check: Matching 13.1
 Quick ,check: Matching 13.2
 Pathology
 Common Disease, Disorder, or Condition: Disorders of the
 Blood
 Quick ,check: Matching 13.3
 Quick Study Time
 13. Summary Outline
 13. Flashcards
 13. Lecture Notes
 13. Search and Explore
 Chapter Homework
 13. Homework
 Introduction
 13. Apply Yourself : Learning Lab
 13. Test Yourself
 Chapter 14 Anatomy/ Physiology PowerPoint

Chapter 14: The Cardiovascular Circulatory System
 Reality Check
 14. Reality Check
 14-A. Reality Check
 Anatomy and Physiology
 Anatomy and Physiology: The Cardiovascular Circulatory
 System
 Quick ,check: Matching 14.1
 Quick ,check: Matching 14.2
 Quick ,check: Matching 14.3
 Quick ,check: Labeling 14.1
 Quick ,check: Labeling 14.2
 Body Systems Working Together
 Pathology
 Common Disease, Disorder, or Condition: Disorders of the
 Cardiovascular System
 Quick ,check: Matching 14.4
 Quick ,check: Matching 14.5
 Study Time
 14. Summary Outline
 14. Flashcards
 14. Lecture Notes
 14. Search and Explore
 Chapter Homework
 14. Homework
 Introduction
 14. Apply Yourself: Learning Lab
 14. Test Yourself
 Chapter 5 Medical Terminology PowerPoint
 Chapter 5
 Key Word Parts for the Cardiovascular System
 Structures and Functions of the Cardiovascular System
 Blood Flow Through the Heart
 Blood Vessels
 Blood Pressure and Pulse
 Components and Functions of Blood
 Cardiovascular Procedures, Diseases and Conditions
 Defining and Building Medical Terms for the Cardiovascular
 System
 Electrical Stimulation of the Heart
 Chapter 5 The Cardiovascular System
 Chapter Introduction; Structures and Functions; Medical
 Specialties
 Chapter 5 Introduction
 Structures, Functions and Medical Specialties of the
 Cardiovascular System
 5.1 Check Your Understanding: Word Part Mastery
 5.2: Check Your Understanding: Building Terms
 5.3 Check Your Understanding: Vocabulary
 5.4 Check Your Understanding: Spelling Terms
 5.1 Image Labeling
 5.2 Image Labeling
 Pathology
 Pathology of the Cardiovascular System

5.5 Check Your Understanding: Word Part Mastery
 5.6: Check Your Understanding: Building Terms
 5.7 Check Your Understanding: Vocabulary
 5.8 Check Your Understanding: Spelling Terms
 Diagnosis and Treatment
 Diagnosis and Treatment of the Cardiovascular System
 5.9 Check Your Understanding: Word Part Mastery
 5.10: Check Your Understanding: Building Terms
 5.11 Check Your Understanding: Vocabulary
 5.12 Check Your Understanding: Spelling Terms
 Apply lit: 5.3 Medical Term Translation
 Apply lit: 5.4 Image Identification
 Study It
 Chapter 5 Pronunciation Review
 Chapter 5 Flashcards
 Chapter 5 Lecture Notes
 Read Chapter 5 The Cardiovascular System
 Abbreviations
 5.13 Check Your Understanding: Abbreviations
 Quiz: Chapter 5 Pronounce
 Quiz: Chapter 5 The Cardiovascular System
 Apply lit: Chapter 5 The Human Touch Critical Thinking Exercise
 Apply lit: 5.1 Medical Terminology at Work
 Chapter 22 Surgical Technology PowerPoint
 Prepare
 What You Will Learn
 Anatomy & Physiology Review
 Read
 Cardiothoracic Surgery
 Review Surgical Procedures
 Procedure 22-10: Coronary Artery Bypass with Grafting (CABG)
 Procedure 22-11: MID-CABG
 Procedure 22-12: OPCAB
 Procedure 22-13: Intra-aortic Balloon Pump (IABP)
 Procedure 22-14: Ventricular Assist Device (VAD) Insertion
 Procedure 22-15: Orthotopic Heart Transplant
 Procedure 22-16: Ventricular Aneurysm Repair
 Procedure 22-17: Aortic Valve Replacement
 Procedure 22-18: Repair of Atrial Septal Defect (ASD)
 Procedure 22-19: Closure of Patent Ductus Arteriosus (PDA)
 Procedure 22-20: Repair of Coarctation of the Aorta
 Procedure 22-21: Repair of Tetralogy of Fallot (TOF)
 Study
 Chapter 22 Flashcards - Terms & Images
 Key Terms for Chapter 22
 Animations (4)
 Matching Exercise 22.01
 Matching Exercise 22.02
 Do
 Chapter 22 Certification Style Exam Quiz
 Chapter 23 Surgical Technology PowerPoint
 Chapter 23: Peripheral Vascular Surgery

Prepare
 What You Will Learn
 Anatomy & Physiology Review
 Read
 Peripheral Vascular Surgery
 Review Surgical Procedures
 Procedure 23-1: Angioscopy
 Procedure 23-2: Insertion of Long-Term Indwelling Central Venous Catheter
 Procedure 23-3: Angioplasty
 Procedure 23-4: Embolectomy or Thrombectomy
 Procedure 23-5: Carotid Endarterectomy
 Procedure 23-6: Abdominal Aortic Aneurysm with Graft
 Procedure 23-7: Aortofemoral Bypass
 Procedure 23-8: Femoropopliteal Bypass
 Procedure 23-9: Vein Ligation and Stripping (Unilateral)
 Procedure 23-10: Inferior Vena Cava Filter Placement-Jugular Vein Access
 Procedure 23-11: Arteriovenous Fistula and Shunt
 Study
 Key Terms for Chapter 23
 Chapter 23 Flashcards - Terms
 Animations (1)
 Do
 Chapter 23 Certification Style Exam Quiz
 Mayo Stand Setup - Basic AAA: Incision-Initial Exposure
 Mayo Stand Setup - Basic AAA: Anastomosis
 Cardiothoracic/Orthopaedic Surgical Procedure Presentation
 Module 2 Quiz- Requires Respondus LockDown Browser
 Anatomy/Physiology/Medical Term In Class Assignment
 Chapter 22 Surgical Technology Case Study
 Chapter 23 Surgical Technology Case Study
 Final Exam- Requires Respondus LockDown Browser
 Procedure Test
 End of Course Survey

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

Classroom Hours

Start: 10-21-2025

End: 11-13-2025

Mo, Tu, W, Th

8:00 AM - 12:00 PM

1:00 PM - 3:00 PM

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:

- | | | | |
|---------------|---------------|---------------|---------------|
| • 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.

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