



TESU 1070 – Surgical Procedures III (3 Credits)

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

Course Outline

- The Skeletal System and Orthopedic Surgery
- The Cardiovascular and Circulatory Systems and Cardiothoracic and Peripheral Vascular Surgery
- Final Exams

Textbook & Reading Materials

Cengage Unlimited Subscription

NCCT Interactive Review

Assignments & Assessments

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

- Orthopedic Surgery
Review Surgical Procedures
Procedure 21-1: Shoulder Arthroscopy
Procedure 21-2: Bankart Procedure, Open
Procedure 21-3: Bankart Procedure, Arthroscopic with Suture Anchors
Procedure 21-4: Acromioplasty, Open
Procedure 21-5: Acromioplasty, Arthroscopic
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 Hio Arthroplasty: Posterolateral Approach
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 It: 5.3 Medical Term Translation
Apply It: 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 It: Chapter 5 The Human Touch Critical Thinking Exercise
Apply It: 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	Cardiothoracic/Orthopaedic Surgical Procedure Presentation
Key Terms for Chapter 23	Module 2 Quiz- Requires Respondus LockDown Browser
Chapter 23 Flashcards - Terms	Anatomy/Physiology/Medical Term In Class Assignment
Animations (1)	Chapter 22 Surgical Technology Case Study
Do	Chapter 23 Surgical Technology Case Study
Chapter 23 Certification Style Exam Quiz	Final Exam- Requires Respondus LockDown Browser
Mayo Stand Setup - Basic AAA: Incision-Initial Exposure	Procedure Test
Mayo Stand Setup - Basic AAA: Anastomosis	End of Course Survey

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

Classroom Hours

Start: 09/29/2026
End: 11/10/2026
Tu, Th
8:00 AM - 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 where course content, grades, and communication will reside for this course.

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

Policies

Course Grading

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.

Grade Scale: The following grading scale will be used to determine a letter grade.

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

Course Policies

If at any time 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.

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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