

## 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.

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### 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; Total Hip  
 Arthroplasty  
 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

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*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](#)

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## 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.

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## Canvas Information

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

- [stech.instructure.com](http://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)
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## Course 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.

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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%   |

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](mailto:cestes@stech.edu), (435) 865-3938.

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

Southwest Technical College

757 West 800 South

Cedar City, UT 84720

[info@stech.edu](mailto:info@stech.edu)

(435) 586-2899