

## TESU 1030 - Surgical Pharmacology (2 Credits)

### Course Description

The Surgical Pharmacology course will introduce students to medication used in surgery and anesthesia care.

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### Course Objectives

- Analyze all hazards and disaster preparation
  - Differentiate medications and types of anesthesia used in surgery
  - Examine anesthesia preparation, administration, and monitoring for the patient
  - Calculate medication doses
  - Assess fluid and blood loss during surgery
  - Prepare and manage medication on the field
  - Demonstrate surgical counts
  - Identify emergency situations and anesthesia complications
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### Course Outline

- The Human Body in Health and Disease
  - Emergency Situations and All-Hazards Preparation
  - Surgical Pharmacology and Biomedical Science
  - Final Exam
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### Textbook & Reading Materials

Cengage Unlimited Subscription, Cengage

## Assignments and Assessments

TESU 1030 Syllabi

Chapter 2 Medical Terminology/Anatomy and Physiology

Surgical Pharmacology

Reality Check

1. Reality Check

1-A. Reality Check

Study Time

1. Summary Outline

1. Flashcards

1. Lecture Notes

1. Search and Explore

Introduction

Introduction; Terms of Direction

Quick check: Matching 1.1

Quick check: Matching 1.2

Planes; Cavities

Quick check: Labeling 1.1

Structural Units

Quick check: Ordering 1.1

Homeostasis

1. Homework

1. Test Yourself

Surgical Pharmacology

Video Library

Chapter 2

Body Planes

Body Plane Identification

Directional Terms for the Body

Body Cavities

Quadrants of the Abdomen

The Endocrine and Exocrine Glands

Chapter 2 The Human Body in Health and Disease

Chapter Introduction; Anatomic Reference Systems

Chapter 2 Introduction

Anatomic Reference Systems

2.1 Check Your Understanding: Word Part Mastery

2.2: Check Your Understanding: Building Terms

2.3 Check Your Understanding: Vocabulary

2.4 Check Your Understanding: Spelling Terms

2.1 Image Labeling

Structures of the Body

Structures of the Body

2.5 Check Your Understanding: Word Part Mastery

2.6: Check Your Understanding: Building Terms

2.7 Check Your Understanding: Vocabulary

2.8 Check Your Understanding: Spelling Terms

Pathology

Pathology

2.9 Check Your Understanding: Word Part Mastery

2.10: Check Your Understanding: Building Terms

2.11 Check Your Understanding: Vocabulary

2.12 Check Your Understanding: Spelling Terms

Study It

Chapter 2 Pronunciation Review

Chapter 2 Flashcards

Chapter 2 Lecture Notes

Read Chapter 2 The Human Body in Health and Disease

Abbreviations

2.13 Check Your Understanding: Abbreviations

Apply lit: 2.2 Whole Body Terminology

Quiz: Chapter 2 Pronounce

Quiz: Chapter 2 The Human Body in Health and Disease

Apply lit: Chapter 2 The Human Touch Critical Thinking

Exercise

Chapter 12: Surgical Case Management

Read

Surgical Case Management

Module 1 Quiz- Requires Respondus LockDown Browser

Chapter 8 Surgical Technology

Chapter 8: Emergency Situations and All-Hazards

Preparation

Prepare

What You Will Learn

Read

Emergency Situations and All-Hazards Preparation

Study

Key Terms for Chapter 8

Chapter 8 Flashcards - Terms

Animations (1)

Matching Exercise 8.01

True-False Exercise 8.05

Do

Chapter 8 Certification Style Exam Quiz

Module 2 Jeopardy

Module 2 Quiz- Requires Respondus LockDown Browser

Chapter 8 Surgical Technology Case Study

Chapter 15 Medical Terminology PowerPoint

Chapter 15

Palpation or Percussion

Radiography Compared with Tomography

Chapter 15 Diagnostic Procedures, Pharmacology, and

Complementary Medicine

Chapter Introduction

Chapter 15 Introduction

Diagnostic Procedures and Recumbent Examination

Positions

Diagnostic Procedures

Recumbent Examination Positions

15.1 Check Your Understanding: Word Part Mastery

15.2: Check Your Understanding: Building Terms

15.3 Check Your Understanding: Vocabulary

15.4 Check Your Understanding: Spelling Terms

Apply lit: 15.1 Medical Term Identification

Laboratory Tests, Endoscopy, Cerentesis, and Biopsy

Laboratory Tests

Endoscopy

Centesis  
Biopsy  
15.5 Check Your Understanding: Word Part Mastery  
15.6: Check Your Understanding: Building Terms  
15.7 Check Your Understanding: Vocabulary  
15.8 Check Your Understanding: Spelling Terms  
15.1 Image Labeling  
Imaging Techniques, Nuclear Medicine, Pharmacology, Non-Medication Prescriptions,  
Complementary and Alternative Medicine, and Medical Specialties Related to  
Diagnostic Procedures, Pharmacology, and Complementary Medicine  
Imaging Techniques  
Nuclear Medicine  
Pharmacology  
Non-Medication Prescriptions  
Complementary and Alternative Medicine  
Medical Specialties Related to Diagnostic Procedures, Pharmacology, and  
Complementary Medicine  
15.9 Check Your Understanding: Word Part Mastery  
15.10: Check Your Understanding: Building Terms  
15.11 Check Your Understanding: Vocabulary  
15.12 Check Your Understanding: Spelling Terms  
15.2 Image Labeling  
Apply lit: 15.4 Image Identification  
Study It  
Chapter 15 Pronunciation Review  
Chapter 15 Flashcards  
Chapter 15 Lecture Notes  
Review It: Word Parts and Abbreviations Learned in Previous Chapters  
15.1 Recall Word Parts Learned in Chapters 11-14  
15.2 Recall Abbreviations Learned in Chapters 11-14  
Read Chapter 15 Diagnostic Procedures, Pharmacology, and Complementary Medicine  
Abbreviations  
15.13 Check Your Understanding: Abbreviations  
Quiz: Chapter 15 Pronounce  
Quiz: Chapter 15 Diagnostic Procedures, Pharmacology, and Complementary  
Medicine  
Apply lit: Chapter 15 The Human Touch Critical Thinking Exercise  
Apply lit: 15.1 Apply Terms Learned in Chapters 10-14  
Surgical Pharmacology  
Chapter 6 Surgical Technology PowerPoint  
Section 2: Principles and Practice of Surgical Technology  
Chapter 6: Biomedical Science and Minimally Invasive Surgery  
Prepare  
What You Will Learn  
Read

Biomedical Science and Minimally Invasive Surgery Study  
Key Terms for Chapter 6  
Chapter 6 Flashcards - Terms  
Matching Exercise 6.01  
Matching Exercise 6.02  
Matching Exercise 6.03  
Do  
Chapter 6 Certification Style Exam Quiz  
Chapter 9 Surgical Technology Powerpoint  
Chapter 9: Surgical Pharmacology and Anesthesia Prepare  
What You Will Learn  
Read  
Surgical Pharmacology and Anesthesia Study  
Key Terms for Chapter 9  
Chapter 9 Flashcards - Terms  
Animations (7)  
Matching Exercise 9.01  
Select the Correct Answer Exercise 9.04  
Do  
Chapter 9 Certification Style Exam Quiz  
Module 3 Jeopardy  
Module 3 Quiz- Requires Respondus LockDown Browser  
Medication Presentation Assignment  
Chapter 6 Surgical Technology Case Study  
Chapter 9 Surgical Technology Case Study  
Final Exam- Requires Respondus LockDown Browser  
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: 3-13-2025

End: 4-23-2025

Mo, Tu, W, Th

12:00 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)

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](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

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