SOUTHWEST TECH
SOUTHWEST TECHNICAL COLLEGE

TESU 1020 - Microbiology and Infection Control (2 Credits)

Course Description

In the Microbiology and Infection Control course students will learn microbiology and the relationship to the practice of sterile technique, infection control, and aseptic principles in the operative setting.

Course Objectives

- Correlate infection control in relation to microbiology, the diseases they cause, and procedures used to treat infections
- Analyze anatomy and physiology of microorganisms and the immune system
- Summarize disinfection and decontamination practices
- Identify biopsychosocial needs of the patient and the process of death and dying
- Discuss the history and pioneers of microbiology

Course Outline

- The Lymphatic and Immune Systems
- The Endocrine System
- Diagnostic Procedures and Preventing Perioperative Disease
- Final Exam

Textbook & Reading Materials

Cengage Unlimited Subscription, Cengage

Assignments and Assessments

Orientation
TESU 1020 Syllabi
Chapter 6 Lymphatic System Medical Terminology PowerPoint
Chapter 6
Video Library
Microbiology and Infection Control
Identifying Key Word Parts for the Lymphatic and Immune Systems
Microbiology and Infection Control
The Lymphatic System
The Lymphatic System
Lymph Nodes
Buildirng Medical Terms for t he Lymphatic and Immune Systems
Chapter 6 The Lymphatic and Immune Systems
Chapter Introduction; Structures and Functions; Medical Specialties
Chapter 6 Introduction
6.1 Check Your Understanding: Word Part Mastery
6.2: Check Your Understanding: Building Terms
6.3 Check Your Understanding: Vocabulary
6.4 Check Your Understanding: Spelling Terms
6.1 Image Labeling
Pathology, Diagnosis, and Treatment of t he Immune System
Pathology, Diagnostic Procedures, and Treatment of t he Immune System
6.5 Check Your Understanding: Word Part Mastery
6.6: Check Your Understanding: Building Terms
6.7 Check Your Understanding: Vocabulary
6.8 Check Your Understanding: Spelling Terms
Pathogenic Organisms, Oncology, and Cancer Treatments
Pathogenic Organisms, Oncology, and Cancer Treatments
6.9 Check Your Understanding: Word Part Mastery
6.10: Check Your Understanding: Building Terms
6.11 Check Your Understanding: Vocabulary
6.12 Check Your Understanding: Spelling Terms
Apply lit: 6.4 Medical Term Translation
Apply lit: 6.5 Image Identification
Study It
Chapter 6 Pronunciation Review
Chapter 6 Flashcards
Chapter 6 Lect ure Notes
Review It: Word Parts and Abbreviations Learned in Previous Chapters
6.1 Recall Word Parts Learned in Chapters 3-5
6.2 Recall Abbreviations Learned in Chapters 3-5
Read Chapter 6 The Lymphatic arnd Immune Systems
Abbreviations
6.13 Check Your Understanding: Abbreviations
Quiz: Chapter 6 Pronounce
Quiz: Chapter 6 The Lymphatic and Immune Systems
Apply lit: Chapter 6 The Human Touch Critical Thinking Exercise
Apply lit: 6.1 Medical Terminology at Work
Apply lit: 6.2 Medical Terminology at Work
Apply lit: 6.1 Apply Terms Learned in Chapters 3-5
Chapter 15 Lymphatic System PowerPoint
Chapter 15: The Lymphatic Circulatory System
Reality Check
15. Reality Check
15-A. Reality Check
Anatomy and Physiology
Anatomy and Physiology
Body Systems Working Together
Pathology
Common Disease, Disorder, or Condition: Disorders of the Lymphatic System
Function, Structure, Pathology, and Diagnostic Procedures of the Lymphatic System;
Medical Specialties Related to the Lymphatic and Immune Systems
Quick check: Matching 15.3
Study Time
15. Summary Outline
15. Flashcards
15. Lecture Notes
15. Search and Explore
Chapter Homework
15. Homework
Int roduction
15. Apply Yourself : Learning Lab
15. Test Yourself
Opening Sterile Wrapped Supplies
Opening Peel Packs
Opening the Instrument Container
Back Table Organization
Mayo Tray Set Up
Basin Set Up
Module 1 Quiz- Requires Respondus LockDown Browser
Lymphatic System Assignment
Chapter 12 Endocrine System PowerPoint
Chapter 12: The Endocrine System
Reality Check
12. Reality Check
Anatomy and Physiology
Anatomy and Physiology
Quick check: Labeling 12.1
Quick Check: Labeling 12.2
Body Systems Working Together
Pathology
Common Disease, Disorder, or Condition: Disorders of the Endocrine System
Quick check: Matching 12.1
Study Time
12. Summary Outline

12. Flashcards
12. Lecture Notes
12. Search and Explore
Chapter Homework
12. Homework
Int roduction
12. Apply Yourself: Learning Lab
12. Test Yourself
Chapter 13 Endocrine System Medical Terminology PowerPoint
Chapter 13
Identifying the Meanings of Endocrine System Word Parts
The Endocrine System
Identifying Endocrine Glands and Describing Their Functions
Role of the Pancreatic Islets in Diabetes
Analyzing and Defining Medical Terms for t he Endocrine System
Buildirng Medical Terms for t he Endocrine System
Explaining Endocrine System Conditions and Diseases
Word Part Review
Word Part Review
Word Part Review: 1 Matching
Word Part Review: 2 Multiple-Choice
Word Part Review: 3 Fill in the Blank Select
Word Part Post-Test
Word Part Post-Test: 1 Fill in the Blank Select
Word Part Post-Test: 2 Matching
Word Part Post-Test: 3 Multiple-choice
Word Part Post-Test: 4 Fill in the Blank Select
Read Word Part Review Introduction
Chapter 13 The Endocrine System
Chapter Introduction; Structures and Functions; Medical Specialties
Chapter 13 Introduction
Structures, Functions and Medical Specialties of the Endocrine System
13.1 Check Your Understanding: Word Part Mastery
13.2: Check Your Understanding: Building Terms
13.3 Check Your Understanding: Vocabulary
13.4 Check Your Understanding: Spelling Terms
13.1 Image Labeling
Pathology
Pathology of the Endocrine System
13.5 Check Your Understanding: Word Part Mastery
13.6: Check Your Understanding: Building Terms
13.7 Check Your Understanding: Vocabulary
13.8 Check Your Understanding: Spelling Terms
Apply lit: 13.2 Image Identification
Diagnosis and Treatment
Diagnosis and Treatment of the Endocrine System
13.9 Check Your Understanding: Word Part Mastery
13.10: Check Your Understanding: Building Terms
13.11 Check Your Understanding: Vocabulary
13.12 Check Your Understanding: Spelling Terms
Apply lit: 13.3 Medical Term Identification
Study It
Chapter 13 Pronunciation Review
Chapter 13 Flashcards
Chapter 13 Lecture Notes
Review It: Word Parts and Abbreviations Learned in Previous Chapters
13.1 Recall Word Parts Learned in Chapters 9-12
13.2 Recall Abbreviations Learned in Chapters 9-12
Read Chapter 13 The Endocrine System
Abbreviations
13.13 Check Your Understanding: Abbreviations
Quiz: Chapter 13 Pronounce
Quiz: Chapter 13 The Endocrine System
Apply lit: Chapter 13 The Human Touch Critical Thinking Exercise
Apply lit: 13.1 Apply Terms Learned in Chapters 8-12
Module 2 Quiz- Requires Respondus LockDown Browser
Chapter 7 PowerPoint
Microbiology and Infection Control
Section 2: Principles and Practice of Surgical Technology
Chapter 7: Preventing Perioperative Disease Transmission
Microbiology and Infection Control
Prepare
Read
Study
Key Terms for Chapter 7
Chapter 7 Flashcards - Terms
Animations (2)
Videos (13)
Matching Exercise 7.01
Matching Exercise 7.02
Do
Chapter 7 Certification Style Exam Quiz
Section 3: Surgical Procedures
Chapter 13 PowerPoint
Prepare
Read
Study
Chapter 13 Flashcards - Terms
Key Terms for Chapter 13
Do
Matching Exercise 13.01
Matching Exercise 13.02
Matching Exercise 13.03
Matching Exercise 13.04
Chapter 13 Certification Style Exam Quiz
Module 3 Quiz- Requires Respondus LockDown Browser
Module 3 Pop Quiz
551 Essay
Chapter 7 Surgical Technology Case Study
Chapter 13 Surgical Technology Case Study
Final Exam- Requires Respondus LockDown Browser

1020 Jeopardy

End of Course Survey

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

Classroom Hours

Start: 2-5-2025
End: 3-12-2025

Mo, Tu, W, Th
12:00 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

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.
Southwest Technical College
757 West 800 South
Cedar City, UT 84720
info@stech.edu
(435) 586-2899