

PN 1073 – Introductory Clinical Pharmacology (4 Credits)

Description

Introductory Clinical Pharmacology provides you with an introduction to basic pharmacology. In this course, you will explore the major drug classifications along with general drug actions, common adverse reactions, contraindications, precautions, and interactions. You will discuss how the nursing process is used as a framework for presenting care of the patient as it relates to the drug and the drug regimen. You will identify ways to promote an optimal response to therapy, how to monitor and manage adverse reactions, and important points to keep in mind when educating patients about the use of these drugs. When you have completed this course, you will be able to demonstrate the basic methods used in the administration of drugs in the context of safety and patient-centered care.

Course Objectives

- Label medications using generic and brand names (EPSLO # 1, 2, 3, 4, 5).
- Categorize characteristics of medications and their classifications (EPSLO # 1, 2, 3, 4, 5).
- Apply basic concepts of pharmacology when providing safe client care (EPSLO # 1, 2, 3, 4, 5).
- Discuss how the LPN functions as a member of the health care team when administering medications (EPSLO # 1, 2, 3, 4, 5).
- Recall best practices in methods used to administer medications (EPSLO # 1, 2, 3, 4, 5).
- Discuss methods used to optimize client response to medication therapy (EPSLO # 1, 2, 3, 4, 5).
- Identify techniques to manage adverse reactions to medications (EPSLO # 1, 2, 3, 4, 5).

Course Outline

- Nursing Foundation of Clinical Pharmacology
- Drugs That Fight Infections
- Drugs That Affect the Urinary System
- Drugs That Affect the Endocrine System
- Drugs Used to Manage Pain
- Drugs That Affect the Gastrointestinal System
- Drugs That Affect Other Body Systems
- Drugs That Affect the Central Nervous System
- Drugs that Affect the Peripheral Nervous System
- Drugs That Affect the Respiratory System
- Drugs that Affect the Cardiovascular System
- Drugs That Affect the Immune System
- Drugs that Affect the Neuromuscular System
- Final

Textbook & Reading Materials

Introductory Clinical Pharmacology, Twelfth Edition (ISBN: 9781975163730)

Assignments & Assessments

Orientation

Course Introduction

Pharmacology Prep U Class Sign Up Code

MedMath Class Sign Up Code

Pharm 1073 Agenda_2025S_Student Version.docx

Documents

Drug Card_Canva Printable.pdf

Resources

Student Strategies Training - Live Webinar Registration.pdf

DocuCare Getting Started Guide for Students.pdf

Picmonic - Join for Free!

Pixorize - Interactive Images for Drug Memorization

Barone Family Names

Naming Drugs - Generic vs. Brand, Pharmacologic vs.

Therapeutic

Nursing.com

Drug-Suffixes-Cheat-Sheet-Sorted-Alphabetically.pdf

Drug-Suffixes-Cheat-Sheet-Sorted-by-Drug-Type.pdf

NCLEX Resources

Critical Thinking and Clinical Judgement

Kaplan & NCSBN Clinical Judgement.avif

NCSBN-Clinical-Judgement-Measurement-Model.pdf

NurseThink Notebook.pdf

NCLEX Links

NGN_Fall21_Question Types

Syllabus Quiz

Participation

Objectives: Day 1

Participation: Foundations - Reading

Participation: Foundations

Participation: Chapter 5 - Teaching Plan

Ticket to Class

Ticket to Class: Prep U Sign Up

Assignments

Post lecture quizzes

Medical Terminology Assignment

Henke's MedMath: Chapter 1 Proficiency Quiz

Mastery Quiz: Foundations - Chapter 1

Mastery Quiz: Foundations - Chapter 2

Mastery Quiz: Foundations - Chapter 3

Mastery Quiz: Foundations - Chapter 4

Mastery Quiz: Foundations - Chapter 5

Lecture Materials

Chapter_01 PPT

Chapter_02 PPT

Chapter_03 PPT

Chapter_04 PPT

Chapter_05 PPT

Learning Resources

Pharmacokinetics vs. Pharmacodynamics

Pharmacokinetics/ Pharmacodynamics_Dr. Matt & Dr. Mike

Nursing Diagnosis - NLM

What is culture?

What is my learning style?

Tests/Quizzes

Module 1: Medication Doseage Quiz

Module 1 Test_Foundations

Participation

Objectives: Infection

Participation: Infection Day 1

Participation: Infection Day 2

Participation: Infections - Drug Class Presentations

Reading: Infection - Day 1

Reading: Infection - Day 2

Ticket to Class

Ticket to Class: Drug Cards - Infection Chapters 6-9

Ticket to Class: Drug Cards - Infection Chapters 10-12

Henke's MedMath: Chapter 2 Proficiency Quiz

Pharmacology Memorization Tools

Mastery Quiz: Infection Chapter 6

Mastery Quiz: Infection Chapter 7

Mastery Quiz: Infection Chapter 8

Mastery Quiz: Infection Chapter 9

Mastery Quiz: Infection Chapter 10

Mastery Quiz: Infection Chapter 11

Mastery Quiz: Infection Chapter 12

Lecture Materials

Chapter_06

Chapter_07

Chapter_08

Chapter_09

Chapter_10

Chapter_11

Chapter_12

Test/Quiz

Module 2 Test: Infection- Requires Respondus LockDown

Module 2 Group Test: Infection- Requires Respondus

LockDown Browser

Module 2 Test: Infection_Remediation- Requires Respondus

LockDown Browser

Learning Resources

Cell Membrane

Amoeba Sisters: Antibiotics, Antivirals, and Vaccines

Dr. Matt & Dr. Mike: Memorizing Abx Classes

Picmonic: Antibiotic Family Names

Participation

Objectives: Pain

Reading: Pain

Participation: Pain

Participation: Drug Cards - Pain - In Class

Participation: Pain - Classroom Presentations

Ticket to ·Class

Assignments

Mastery Quiz: Pain Chapter 13

Mastery Quiz: Pain Chapter 14

Mastery Quiz: Pain Chapter 15

Mastery Quiz: Pain Chapter 16

Lecture Materials

Chapter_13

Chapter_14

Chapter_15

Chapter_16

Test/Quiz

Module 5 Test: Pain- Requires Respondus LockDown

Module 5 Group Test: Pain- Requires Respondus
LockDown

Participation

Objectives: Central Nervous System

Reading: CNS

Participation: Central Nervous System

Participation: CNS Bingo

Participation: CNS: MedSurg Chapter 36 Presentations

Participation: CNS - Patient Handout

Participation: Central Nervous System Drug Cards

Ticket to ·Class

Assignments

Lecture Material

CNS PtPTs

Chapter 36 Neuromuscular MedSurg_SV.pptx

Learning Resources

MAOIs

Participation

Objectives: Peripheral Nervous System

Reading: PNS

Participation: Peripheral Nervous System

Participation: Peripheral Nervous System - DNP

Participation: Peripheral Nervous System - Case Studies

Participation: Peripheral Nervous System - GSY

Participation: Peripheral Nervous System Day 2

Adrenergic Quiz

Participation: Adrenergic vs Chloinerbic Chart

Ticket to ·Class

Ticket to Class: Drug Cards - Peripheral Nervous System
Assignments

Mastery Quiz: Peripheral Nervous System - Chapter 24

Mastery Quiz: Peripheral Nervous System - Chapter 25

Mastery Quiz: Peripheral Nervous System - Chapter 26

Lecture Material

Chapter 23_Adrenergic Drugs_SV.pptx

Chapter 24_Adrenergic Blocking Drugs_SV.pptx

Chapter 25_Cholinergic Drugs_SV.pptx

Chapter 26_Cholinergic Blocking Drugs_SV.pptx

Learning Resources

Adrenergic Receptors

Vasopressors

Overview of Adrenergic Effects

Cholinergic Receptors

Cholinergic Drugs

Anti-chol inergic vs Cholinergic Toxicity - Simple

Anti-chol inergic Toxicity

Tests

Module 9 Test Peripheral Nervous System• Requires
Respondus LockDown Browser

PNS Test Remediation

PNS Test Remediation

Module 9 Group Test: Peripheral Nervous System-
Requires

Respondus LockDown Browser

Participation

Objectives: Other Body Systems

Reading: Other Body Systems

Participation: Other Body Systems

Ticket to ·Class

Ticket to Class: Drug Cards -Other Body Systems

Lecture Materials

Chapter_52

Chapter_53

Chapter_54

Assignments

Mastery Quiz: Other Body Systems Chapter 52

Mastery Quiz: Other Body Systems Chapter 53

Mastery Quiz: Other Body Systems Chapter 54

Test/Quiz

PrepU EC

Module 7 Test: Cumulative Midterm with GI and Other
Body

Systems- Requires Respondus

LockDown Browser

Participation

Objectives: GI System

Reading: GI System
Participation: GI System
Ticket to Class
Ticket to Class: Drug Cards - GI System
Assignments
Mastery Quiz: GI Chapter 38
Mastery Quiz: GI Chapter 39
Lecture Materials
Chapter_38
Chapter_39
Test/Quiz
Module 6 Test: GI System
Participation
Objectives: Endocrine System
Reading: Endocrine System
Participation: Endocrine System
Participation: Endocrine Drug Memorization
Ticket to Class
Ticket to Class: Drug Cards - Endocrine System
Weekly Assignments
Mastery Quiz: Endocrine Chapter 40
Mastery Quiz: Endocrine Chapter 41
Mastery Quiz: Endocrine Chapter 42
Mastery Quiz: Endocrine Chapter 43
Mastery Quiz: Endocrine Chapter 44
Lecture Materials
Chapter_40
Chapter_41
Chapter_42
Chapter_43
Chapter_44
Test/Quiz
Module 4: Endocrine Test- Requires Respondus LockDown Browser
Module 4: Endocrine Group Test- Requires Respondus LockDown Browser
Participation
Objectives: Respiratory
Reading: Respiratory System
Participation; Respiratory Day 1
Participation: Respiratory System Ch. 30 Case Study
Participation: Respiratory System Ch. 31 Drug Drawing
Participation: Respiratory System Ch. 31 Case Study
Participation: Respiratory Day 2
Ticket To Class
Ticket to Class: Drug Cards - Respiratory
Assignments
Mastery Quiz: Respiratory System - Chapter 30
Mastery Quiz: Respiratory System - Chapter 31

Lecture Material
PPT: Respiratory
Tests
Module 10: Respiratory Test
Module 10: Respiratory Group Test - Requires Respondus LockDown Browser
Module 10: Respiratory Remediation- Requires Respondus LockDown Browser
Pharm II_Respiratory Remediation Test Rationales
Module 10: Respiratory Group Test - Requires Respondus LockDown Browser
Participation
Objectives: Cardiovascular
Reading: Cardiovascular System
Participation: Cardiovascular Day 1
Participation: Cardiovascular Heart Diagrams
Participation: Cardiovascular Day 2
Participation: Cardiovascular Day 3
Ticket To Class
Ticket to Class: Drug Cards - Cardiovascular
Mastery Quiz: Cardiovascular - Chapter 32 TIC
Mastery Quiz: Cardiovascular - Chapter 33 TIC
Mastery Quiz: Cardiovascular - Chapter 34 TIC
Mastery Quiz: Cardiovascular - Chapter 35 TIC
Mastery Quiz: Cardiovascular - Chapter 36 TIC
Mastery Quiz: Cardiovascular - Chapter 37 TIC
Assignments
Mastery Quiz: Cardiovascular - Chapter 32
Mastery Quiz: Cardiovascular - Chapter 33
Mastery Quiz: Cardiovascular - Chapter 34
Mastery Quiz: Cardiovascular - Chapter 35
Mastery Quiz: Cardiovascular - Chapter 36
Mastery Quiz: Cardiovascular - Chapter 37
Cardiac Medication Group Presentation
Lecture Material
PPTs: Cardiovascular
Student Cardiac PPTs
Learning Resources
Basic HTN Meds
Picmonic - Cardiac
RAAS - Real Simple
RAAS and Drugs
Osmotic Diuretics
Shock Treatment
Phases of Blood Clotting
Simple Cascade and Antithrombotic Drugs
Tests
Pharm 1073_Cardiac Test- Requires Respondus LockDown Browser

Pharm 1073_Cardiac Remediation
 Pharm II_Cardiac Remediation Test Rationales
 Pharm 1073_Cardiac Group Test- Requires Respondus
 LockDown Browser
 Participation
 Objectives: Neuromuscular
 Reading: Neuromuscular System
 Participation: Neuromuscular Day 1
 Participation: Round Robbin Drug Education
 Ticket to Class
 Ticket to Class: Drug Cards - Neuromuscular
 Assignments
 Mastery Quiz: Neuromuscular - Chapter 27
 Mastery Quiz: Neuromuscular - Chapter 28
 Mast ery Quiz: Neuromuscular - Chapter 29
 Lecture Material
 Chapter 27 Antiparkinsons.pptx
 Chapter 28 Antiepileptics.pptx
 Chapter 29 Skeletal Muscle, Bone, & Joint Disorders.pptx
 Phenyt oin
 How seizure drugs work
 Module 13 Neuromuscular Student Presentations
 Participation: Final Exam Day
 Pharm 1073_Neuromuscular and Immune Cumulative
 Final
 Extra Credit Opport unity
 Pharm 1073_Group Test Neuromuscular and Immune
 Cumulative Final- Requires
 Respondus LockDown Browser
 End of Course Survey
 Participation
 Objectives: Urinary System
 Reading: Urinary System
 Participation: Urinary System
 Ticket to Class
 Ticket to Class: Drug Cards - Urinary System - OPTIONAL
 Assignments
 Lecture Materials
 Chapter_45
 Chapter_46
 Test/Quiz
 Participation
 Participation: Immune System
 Reading: Immune System
 Participation: Immune System • Chapter Presentations
 Ticket to Class

Lecture Materials
 MedSurg PPT_Chapter_33.pptx
 Chapter_ 48.pptx
 Chapter_ 47.pptx
 Chapter_ 49 .pptx
 Learning Resources
 Amoeba Sisters: Immune System
 Dr. Matt & Dr. Mike: Types of Immunity
 Objectives - Day 19
 Day20
 Objectives - Day 20
 Day12
 Participation
 Objectives
 Participation: Endocrine Human Diagram
 Ticket To Class
 Drug Cards: Endocrine
 Assignments
 PrepU Week 2: Endocrine Level 5
 Lecture Material
 PowerPoints: Endocrine
 PowerPoints: GI
 Tests
 Study Guide: Endocrine
 Module 4: Endocrine Test- Requires Respondus LockDown
 Browser
 Pharm II_Endocrine Remediation- Requires Respondus
 LockDown Browser
 Pharm II_Endocrine Remediation
 Day21
 Objectives - Day 21
 Day22
 Objectives - Day 22
 Participation
 Objectives: Week 7
 Participation: Other Body Systems
 Ticket To Class
 Drug Cards: Other Body Systems
 Assignments
 Lecture Material
 PPT
 Tests
 Day24
 Objectives - Day 24
 Day25
 Objectives - Day 25

Classroom Hours

Fall

Start: 08-14-2025

End: 12-11-2025

Thursday

9:00 AM - 4:00 PM

Spring

Start: 01-08-2026

End: 05-07-2026

Thursday

9:00 AM - 4:00 PM

For a full list of course hours visit: [Course Schedule](#)

Instructor Contact Information

Marie Smack — msmack@stech.edu

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 72 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)
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Policies

Course Policies

Instructor Information and Course Requirements: The instructor will be available for more individualized questions during class breaks and by appointment. Students are expected to arrive on time to class ready to learn, having completed pre-class assignments and the required reading.

Grading: A cumulative average 80% or better is expected on all course requirements. Evaluation methods will include: Tickets to class (10%), Tests and quizzes (40%), Assignments (25%), and Class participation/professional behavior (25%). If a student's grade falls below 80%, an Academic Intervention Plan will be initiated, requiring remediation for successful course completion. A cumulative test average of 80% is required to pass the course.

Remediation: Remediation, if available, must be requested within 24 hours of the original assignment/test completion.

Artificial Intelligence: The use of generative AI (ChatGPT etc.) is not banned for this course. AI may be used as a tool to assist with the generation of ideas, but it may not be used to replace student work and is not an approved source for cited information

Attendance: It is expected students will attend all scheduled classes. In the event of an absence, the student is responsible for content discussed in class. Habitual tardiness or absences will be handled on a case by case basis.

Cell Phone / Electronics: See Practical Nursing Orientation Guide.

Industry Environment: The environment is a classroom setting with varied methods of instruction. Group projects and presentations are part of the curriculum. Laptop computers are required to access the electronic library and a host of other learning modalities. The majority of the time spent in the classroom will be sitting, with scheduled breaks as the lesson plan allows.

Attendance: Didactic Class

The didactic curriculum will be covered over two semesters. Students who are not in class will be unable to learn and miss needed information; therefore, attendance is mandatory. If an absence is unavoidable, the student must notify the instructor prior to the absence when possible. An absence is defined as more than 15 minutes of missed class time, regardless of whether missed time occurs at the beginning, middle, or end of a scheduled class. Following the second absence, each subsequent absence will result in a 5% reduction in the student's overall theory grade. Breaks will be provided at specified intervals throughout the class sessions to attend to personal needs. Mobile phones and other electronic devices must remain in silent mode throughout the duration of the class. Please do not disrupt the class by receiving calls, being paged, or leaving inappropriately. Excessive text messaging/social media during class will not be tolerated. Use of the technologies, as mentioned above, during class will result in students being asked to leave for the remainder of the class with an absence recorded on their attendance record. Should any specific issues arise, students should discuss them with the instructor.

Punctuality: Didactic Class

Arriving late, leaving early, or frequently exiting the classroom during class disrupts the instructor and classmates. In order to mirror professional workplace standards, punctuality will be tracked. Tardiness is defined as missing 1 to 14 minutes of class time after the class has started. The determination of tardiness will be made at the discretion of the faculty.

Habitual tardiness in the didactic setting will prompt the implementation of an academic intervention plan, which will be structured according to the following scale:

- 2 tardies/course = verbal warning, each subsequent tardy will result in a 2% reduction in the student's overall theory grade.
- 3 tardies/course = academic intervention plan and a 2% deduction to their overall grade
- 5 tardies/course = dismissal from program

Students who are late or absent on the day of an exam will be required to take the examination within a 24-hour window. Failure to do so within this timeframe will result in a 5% deduction per day, up to a maximum of 7 days, with no opportunity for remediation.

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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