

## 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
  - Kaplarn & 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\_0S 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 Cholinergic 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-cholinergic vs Cholinergic Toxicity - Simple  
Anti-cholinergic 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	Lecture Material
Participation: GI System	PPT: Respiratory
Ticket to Class	Tests
Ticket to Class: Drug Cards - GI System	Module 10: Respiratory Test
Assignments	Module 10: Respiratory Group Test - Requires Respondus LockDown Browser
Mastery Quiz: GI Chapter 38	Module 10: Respiratory Remediation- Requires Respondus LockDown Browser
Mastery Quiz: GI Chapter 39	Pharm II_Respiratory Remediation Test Rationales
Lecture Materials	Module 10: Respiratory Group Test - Requires Respondus LockDown Browser
Chapter_38	Participation
Chapter_39	Objectives: Cardiovascular
Test/Quiz	Reading: Cardiovascular System
Module 6 Test: GI System	Participation: Cardiovascular Day 1
Participation	Participation: Cardiovascular Heart Diagrams
Objectives: Endocrine System	Participation: Cardiovascular Day 2
Reading: Endocrine System	Participation: Cardiovascular Day 3
Participation: Endocrine System	Ticket To Class
Participation: Endocrine Drug Memorization	Ticket to Class: Drug Cards - Cardiovascular
Ticket to Class	Mastery Quiz: Cardiovascular - Chapter 32 TIC
Ticket to Class: Drug Cards - Endocrine System	Mastery Quiz: Cardiovascular - Chapter 33 TIC
Weekly Assignments	Mastery Quiz: Cardiovascular - Chapter 34 TIC
Mastery Quiz: Endocrine Chapter 40	Mastery Quiz: Cardiovascular - Chapter 35 TIC
Mastery Quiz: Endocrine Chapter 41	Mastery Quiz: Cardiovascular - Chapter 36 TIC
Mastery Quiz: Endocrine Chapter 42	Mastery Quiz: Cardiovascular - Chapter 37 TIC
Mastery Quiz: Endocrine Chapter 43	Assignments
Mastery Quiz: Endocrine Chapter 44	Mastery Quiz: Cardiovascular - Chapter 32
Lecture Materials	Mastery Quiz: Cardiovascular - Chapter 33
Chapter_40	Mastery Quiz: Cardiovascular - Chapter 34
Chapter_41	Mastery Quiz: Cardiovascular - Chapter 35
Chapter_42	Mastery Quiz: Cardiovascular - Chapter 36
Chapter_43	Mastery Quiz: Cardiovascular - Chapter 37
Chapter_44	Cardiac Medication Group Presentation
Test/Quiz	Lecture Material
Module 4: Endocrine Test- Requires Respondus LockDown Browser	PPTs: Cardiovascular
Module 4: Endocrine Group Test- Requires Respondus LockDown Browser	Student Cardiac PPTs
Participation	Learning Resources
Objectives: Respiratory	Basic HTN Meds
Reading: Respiratory System	Picmonic - Cardiac
Participation; Respiratory Day 1	RAAS - Real Simple
Participation: Respiratory System Ch. 30 Case Study	RAAS and Drugs
Participation: Respiratory System Ch. 31 Drug Drawing	Osmotic Diuretics
Participation: Respiratory System Ch. 31 Case Study	Shock Treatment
Participation: Respiratory Day 2	Phases of Blood Clotting
Ticket To Class	Simple Cascade and Antithrombotic Drugs
Ticket to Class: Drug Cards - Respiratory	Tests
Assignments	Pharm 1073_Cardiac Test- Requires Respondus LockDown Browser
Mastery Quiz: Respiratory System - Chapter 30	
Mastery Quiz: Respiratory System - Chapter 31	

Pharm 1073_Cardiac Remediation	Lecture Materials
Pharm II_Cardiac Remediation Test Rationales	MedSurg PPT_Chapter_33.pptx
Pharm 1073_Cardiac Group Test- Requires Respondus LockDown Browser	Chapter_48.pptx
Participation	Chapter_47.pptx
Objectives: Neuromuscular	Chapter_49.pptx
Reading: Neuromuscular System	Learning Resources
Participation: Neuromuscular Day 1	Amoeba Sisters: Immune System
Participation: Round Robbin Drug Education	Dr. Matt & Dr. Mike: Types of Immunity
Ticket to Class	Objectives - Day 19
Ticket to Class: Drug Cards - Neuromuscular Assignments	Day20
Mastery Quiz: Neuromuscular - Chapter 27	Objectives - Day 20
Mastery Quiz: Neuromuscular - Chapter 28	Day12
Mastery Quiz: Neuromuscular - Chapter 29	Participation
Lecture Material	Objectives
Chapter 27 Antiparkinsons.pptx	Participation: Endocrine Human Diagram
Chapter 28 Antiepileptics.pptx	Ticket To Class
Chapter 29 Skeletal Muscle, Bone, & Joint Disorders.pptx	Drug Cards: Endocrine
Phenytoin	Assignments
How seizure drugs work	PrepU Week 2: Endocrine Level 5
Module 13 Neuromuscular Student Presentations	Lecture Material
Participation: Final Exam Day	PowerPoints: Endocrine
Pharm 1073_Neuromuscular and Immune Cumulative Final	PowerPoints: GI
Extra Credit Opportunity	Tests
Pharm 1073_Group Test Neuromuscular and Immune Cumulative Final- Requires Respondus LockDown Browser	Study Guide: Endocrine
End of Course Survey	Module 4: Endocrine Test- Requires Respondus LockDown Browser
Participation	Pharm II_Endocrine Remediation- Requires Respondus LockDown Browser
Objectives: Urinary System	Pharm II_Endocrine Remediation
Reading: Urinary System	Day21
Participation: Urinary System	Objectives - Day 21
Ticket to Class	Day22
Ticket to Class: Drug Cards - Urinary System - OPTIONAL Assignments	Objectives - Day 22
Lecture Materials	Participation
Chapter_45	Objectives: Week 7
Chapter_46	Participation: Other Body Systems
Test/Quiz	Ticket To Class
Participation	Drug Cards: Other Body Systems
Participation: Immune System	Assignments
Reading: Immune System	Lecture Material
Participation: Immune System • Chapter Presentations	PPT
Ticket to Class	Tests
	Day24
	Objectives - Day 24
	Day25
	Objectives - Day 25

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

## **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](#)

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## **Instructor Contact Information**

Marie Smack – [msmack@stech.edu](mailto: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.*

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## **Canvas Information**

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

- Canvas URL: [stech.instructure.com](https://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](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.

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