

NUR 41500 Pathophysiology

Course Information & Objectives

[College of Nursing Contact Information](#)

Course Description:

The most common morbidity problems manifested throughout the lifespan are studied. Pathophysiologic concepts and physiologic responses are integrated with the nursing process. The application of evidence based nursing practice modalities provides a basis to address basic human needs.

Course Pattern:

Lecture 03 Lab 00 Credit 03

Prerequisites/Co-requisites:

NUR 18200

Course Objectives (Student Learning Outcomes):

1. Explain the basic physiologic and pathophysiologic mechanisms of common morbidity problems. (Aligns with Program Outcome #6)
2. Identify the physiologic adaptive responses associated with selected altered states. (Aligns with Program Outcomes #6, 7)
3. Relate subjective and objective data to selected pathophysiologic processes. (Aligns with Program Outcome #6)
4. Examine current scientific investigations regarding pathological states and management modalities. (Aligns with Program Outcomes #6, 7)
5. Incorporate evidence-based practice strategies in designing appropriate nursing interventions that facilitate patient adaptation. (Aligns with Program Outcomes #1, 4, 6)
6. Appreciate, understand, and apply pathological concepts related to body systems. (Aligns with Program Outcome #6)

Students will meet the objectives listed above through a combination of activities in this course.

Student Learning Outcomes of Undergraduate Degree Nursing Program Options

1. Utilize the nursing process to implement principles of person centered care within the framework of basic human needs and life span development.
2. Demonstrate effective communication while collaborating therapeutically and effectively with healthcare system stakeholders.
3. Demonstrate professional leadership in the coordination of healthcare that minimizes risk, promotes safety, and manages resources by creating a culture of continuous quality improvement.

4. Implement the principles of evidence based nursing practice in policy development and the provision of person centered care in an evolving healthcare environment.
5. Utilize information technology to coordinate and support decision-making in the provision of person centered care.
6. Implement critical thinking strategies in the context of health promotion, health maintenance, health restoration and palliation to maximize optimal person centered health outcomes.
7. Exemplify professional values to include accountability for practice, and principles of altruism, autonomy, human dignity, integrity, social justice and ethics.

Assignments & Determination of Course Grade:

Case Study

The project in this course is an all-encompassing case study that will cover information on Diabetes, Renal, Cardiac, Pulmonary, and Neuro. The case study centers around our patient, Loretta, and each week you will submit a portion of her case study related to the topic of the week. Points will be awarded each week for a cumulative total of 100 points. The case study will require that you have references and use those references for in-text citations as appropriate and a reference page in APA format.

Each week you will submit a part of the Case Study, due Sunday at 10:00 p.m. CT.

Week 1 – Case Study Part 1 includes content from the Diabetes

Week 2 – Case Study Part 2 includes content from the Cardiac module

Week 3 – Case Study Part 3 includes content from the Renal module

Week 4 – Case Study Part 4 includes content from the Pulmonary module

Week 5 – Case Study Part 5 includes content from the Neurological module

Weekly Quiz

Cover content presented each week.

Course Schedule:

Refer to the course calendar for specific meeting dates and times. Activity and assignment details will be explained in detail within each week's corresponding learning module. The dates and learning topics are subject to change. If you have any questions, please contact your instructor.

Due Dates

Weeks 1-4:

- Discussion initial post: **Due – Thursday at 10:00 p.m. CT.**
- Discussion responses: **Due – Sunday at 10:00 p.m. CT.**
- Assignments (unless indicated differently in the course): **Due – Sunday at 10:00 p.m. CT.**
- Quizzes and exams: **Due – Sunday at 10:00 p.m. CT.**

Week 5:

- Discussion initial post: **Due – Tuesday at 10:00 p.m. CT.**
- Discussion responses: **Due – Friday at 10:00 p.m. CT.**
- Assignments (unless indicated differently in the course): **Due – Friday at 10:00 p.m. CT.**
- Quizzes and exams: **Due – Sunday at 10:00 p.m. CT.**

Course Calendar:

Wk	Topic	Activities/Assignments/Due Dates
1	Endocrine System	<ul style="list-style-type: none">• Discussion initial post: Due – Thursday• Submit Week 1 Case Study Part 1 Assignment Due – Sunday• Discussion responses: Due – Sunday• Complete Quiz: Due – Sunday
2	Cardiovascular System	<ul style="list-style-type: none">• Discussion initial post: Due – Thursday• Submit Week 2 Case Study Part 2 Assignment Due – Sunday• Discussion responses: Due – Sunday• Complete Quiz: Due – Sunday
3	Renal System	<ul style="list-style-type: none">• Discussion initial post: Due – Thursday• Submit Week 3 Case Study Part 3 Assignment Due – Sunday• Discussion responses: Due – Sunday• Complete Quiz: Due – Sunday
4	Pulmonary System	<ul style="list-style-type: none">• Discussion initial post: Due – Thursday• Submit Week 4 Case Study Part 4 Due – Sunday• Submit Week 4 Assignment 2 Due – Sunday• Discussion responses: Due – Sunday• Complete Quiz: Due – Sunday
5	Neurological System	<ul style="list-style-type: none">• Discussion initial post: Due – Tuesday• Submit Week 5 Case Study Part 5 Due – Sunday• Discussion responses: Due – Friday• Complete Final Exam: Due – Sunday

Graded Course Activities:

Points	Descriptions
50	Weeks 1–5 – Discussions (10 pts each)
60	Weeks 1–4 – Quizzes (15 pts each)
24	Week 1 – Case Study Part 1 Assignment: Diabetes
19	Week 2 – Case Study Part 2 Assignment: Cardiac
20	Week 3 – Case Study Part 3 Assignment: Renal
18	Week 4 – Case Study Part 4 Assignment: Pulmonary
19	Week 4 – Case Study Part 5 Assignment: Neuro
55	Week 5 – Final Exam
265	Total Points Possible

Minimum Passing Standard

Upon completion of all required methods of evaluation, the student must have achieved an average score of 78% in the course.