

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Pathophysiology I

Course Abbreviation and Number: NUR 2550

Credit Hours: 1.5

Course Type: Lecture

Course Description: Students will study physiological and psychological changes that occur as a result of disease processes. Emphasis will be placed on the nursing assessment and the analysis of clinical manifestation development. Students will integrate concepts from chemistry, anatomy and physiology, and microbiology, and focus on their application to clinical practice. The course emphasizes the pathophysiology of clients/patients with disruptions in the following: cellular regulation, nutrition, elimination, and tissue integrity.

Prerequisite: NUR 1520 and completion of BIO 2520 with a grade of C or better.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Recall and apply the concepts of pathophysiology across the lifespan to the following:
 - a. Cellular regulation: cellular injury, genetic concepts, immune deficiencies and excesses; fluid, electrolyte and acid-base imbalances, hematologic disruptions, cancer, and endocrine system disruptions
 - b. Nutrition: the endocrine system and digestive system disruptions
 - c. Elimination: urinary and renal disruptions
 - d. Tissue integrity
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Topics Covered:

- Introduction to pathophysiology
 - Cellular injury and adaptation
 - Genetic concepts
 - Immune deficiencies and excesses
 - Fluid, electrolyte, and acid-base imbalances
 - Hematologic problems
 - Cancer
 - Endocrine system problems
 - Digestive system problems
 - Urinary system problems
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Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
 - [Accessibility Services](#)

Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
 - [Get Help: JCC & Community Resources](#)
 - [Emergency Closing Procedures](#)
 - Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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 - Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
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Effective Date: Fall 2021