



Course Number and Title: HIM 135 Pathophysiology

Campus Location:

Wilmington

Effective Date:

2021-51

Prerequisite:

HIM 100, (BIO 110 or BIO 120)

Co-Requisites:

None

Course Credits and Hours:

3.00 credits

3.00 lecture hours/week

0.00 lab hours/week

Course Description:

This course is designed for health care professionals to understand and interpret the basic principles and concepts that occur physiologically due to different situations and disease states. Students study the description of conditions and diseases of the organ systems, including etiology, signs and symptoms, and methods of diagnosis and treatment including surgical procedures. Students identify disease entities and describe appropriate diagnostic and treatment modalities documented in the health record.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

None

Schedule Type:

Classroom Course

Video Conferencing

Web Conferencing

Hybrid Course

Online Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Analyze the most common diseases and disorders related to each of the major body systems. (PGC 1, 5; CCC 1, 2, 5)
2. Describe cellular adaptations to altered conditions in the body. (PGC 1, 5; CCC 1, 2, 5)
3. Describe the relationship of the immune system regarding different disease processes. (PGC 1, 5; CCC 1, 2, 5)
4. Describe the potential for alterations of health across the lifespan. (PGC 1, 5; CCC 1, 2, 5)
5. Explain the basic components for surgical procedures based on a specific disease or disorder. (PGC 1, 5; CCC 1, 2, 5)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Analyze the most common diseases and disorders related to each of the major body systems.
 1. Explain the etiology, pathophysiology, mechanisms, manifestations, diagnoses, treatments, complications and prognoses for specific diseases and disorders.
 2. Explain normal and abnormal structure and function within specific body systems.
 3. Explain the effect of injuries and trauma within specific body systems.
 4. Explain common inflammatory, degenerative, metabolic and neoplastic disorders within specific body systems.
 5. Explain the effect of organ and system failure within specific body systems.
 6. Compare and contrast select diseases and disorders within specific body systems.
 7. Differentiate acute and chronic diseases and disorders within specific body systems.
 8. Identify health record documentation to support common diseases and disorders.

2. Describe cellular adaptations to altered conditions in the body.
 1. Describe the structure and function of cells and tissues.
 2. Explain basic genetic terminology and chromosomal disorders.
 3. Describe cellular adaptations that result from environmental stresses.
 4. Identify major types of cellular necrosis.
 5. Identify mechanisms that cause fluid volume excess and deficits.
 6. Identify health record documentation to support altered conditions in the body.

3. Describe the relationship of the immune system regarding different disease processes.
 1. Explain innate immunity mechanisms.
 2. Discuss inflammatory responses.
 3. Explain the features of adaptive immunity.
 4. Discuss examples of stress-related diseases and coping with stress.
 5. Describe mechanisms of autoimmune disorders.
 6. Identify health record documentation to support immune system diseases and disorders.

4. Describe the potential for alterations of health across the lifespan.
 1. Describe the effect of the environment, maternal illness, behaviors, and nutritional deficiencies on pregnancy.
 2. Discuss how body systems are affected by aging.
 3. Identify health record documentation to support common alterations of health across the lifespan.

5. Explain the basic components for surgical procedures based on a specific disease or disorder.
 1. Explain the indications for performance of a procedure.
 2. Relate the risks and potential complications of a procedure.
 3. Identify health record documentation to support the surgical procedures performed for common diseases and disorders.

Evaluation Criteria/Policies:

The grade will be determined using the Delaware Tech grading system:

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
0	-	69	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Final Course Grade:

Calculated using the following weighted average

Evaluation Measure	Percentage of final grade
Homework (formative)	10%
Case Studies (formative)	15%
Exams (3) @ 15% each (summative)	45%
Presentations (2) @ 15% each (summative)	30%
TOTAL	100%

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Synthesize knowledge of medical sciences, clinical classification systems, vocabularies, and terminologies to effectively use, apply, and interpret health data.
2. Analyze data to identify trends through the use of health information technologies.
3. Apply legal, regulatory, privacy, and security standards to employ policies and procedures for health information collection, access, and disclosure.
4. Synthesize knowledge of health data and payment methodologies to evaluate the efficiency and effectiveness of revenue cycle processes.
5. Interpret regulatory, coding, legal, and clinical documentation standards to develop, implement, and evaluate compliance.
6. Consistently demonstrate leadership through the appropriate interpretation and evaluation of professional behaviors and ethical standards.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.