

**Note:**

**Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.**

## ***COURSE SYLLABUS***

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### **NURS 506**

#### **ADVANCED PHYSIOLOGY AND PATHOPHYSIOLOGY**

#### **COURSE DESCRIPTION**

System-focused content addresses the normal physiologic and pathologic mechanisms of disease that serve as the foundation for advanced clinical assessment, decision-making, and management. Physiologic changes are compared and contrasted over the life span and developmental physiology, normal etiology, pathogenesis, and clinical manifestations of commonly found/observed altered health states and responses to illness and treatment modalities are examined.

#### **RATIONALE**

Advanced practice nursing focuses not only on management of current disease states, but upon the prevention of disease advancement. Understanding the pathophysiology of disease process is critical to effectively evaluating the patient, planning care, and facilitating quality patient care.

#### **I. PREREQUISITE**

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

#### **II. REQUIRED RESOURCE PURCHASE**

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

#### **III. ADDITIONAL MATERIALS FOR LEARNING**

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Office

#### **IV. MEASURABLE LEARNING OUTCOMES**

Upon successful completion of this course, the student will be able to:

- A. Apply knowledge of physiological and pathophysiological processes to diseases and conditions manifested across the lifespan.

- B. Integrate concepts of pathophysiology to clinical reasoning to provide health promotion, disease prevention and management.
- C. Differentiate between normal and abnormal compensatory mechanisms as the body responds to disease.
- D. Integrate the Christian worldview into the discussion of pathophysiology.
- E. Evaluate genetic influences and risk factors related to diseases/disorders.

## V. COURSE ASSIGNMENTS

- A. Textbook readings and lecture presentations

- B. Course Requirements Checklist

After reading the Course Syllabus and [Student Expectations](#), the student will complete the related checklist found in Module/Week 1.

- C. Discussion Board Forums (3)

Discussion boards are collaborative learning experiences. Therefore, the student is required to post a thread of at least 500 words and post **two** replies of at least 250 words each.

For each thread, the student must include at least **two** scholarly citations published within the last 5 years in current APA format. Each reply must cite at least **one** source.

- D. Annotated Bibliography

The student will identify **five** scholarly sources published within the last 5 years related to a clinical area of expertise. These sources should be peer-reviewed and valid (i.e., present a strong level of evidence). The student will provide a brief review of each article's strengths and weaknesses. The sources must be cited in current APA format.

- E. Case Study (2)

The student will write two case studies. Each case may be based on an actual or fictional patient (if actual, remember to leave out any identifying information). The student will develop a background of the patient including age, race, diagnosis, signs and symptoms, family history, social history, and medications/allergies. The case must include an in-depth discussion of the pathophysiology of the selected disease to the cellular level. The student will also discuss a holistic plan of care including any genetic counseling/testing, patient education, and physical, psychosocial, spiritual, and cultural care the patient should receive. The case study must be 3 to 4 pages (excluding the title and reference pages) and include at least 4 scholarly sources published within the last 5 years. The case studies should use current APA format.

F. Cardiovascular–Pulmonary Presentation

The student will develop a Microsoft PowerPoint presentation on a cardiovascular–pulmonary disorder/disease discussed in the McCance text. The presentation must provide information about the incidence, prevalence, and pathophysiology of the disease/disorder to the cellular level. The presentation must educate professional nurses on assessment and care/treatment specific to this disorder. Patient education for management, cultural, and spiritual considerations for care must also be addressed. The presentation must specifically address how the disease/disorder affects one of the following age groups: infant/child, adult, or elderly. The presentation must be at least 15 slides (excluding the title and reference slides) and include 3 to 5 scholarly sources published within the last 5 years and cited in current APA format.

G. Quizzes (6)

Each quiz will cover the Reading & Study material. Each quiz is open-book and open-notes, contains 15 multiple-choice questions, and has a time limit of 30 minutes.

H. Final Exam

The Final Exam will cover the Reading & Study material from Modules/Weeks 1–6. The exam will consist of 25 multiple-choice questions and 1 essay question, be open-book and open-notes, and have a time limit of 1 hour and 30 minutes.

**VI. COURSE GRADING AND POLICIES**

A. Points

|  |     |
|--|-----|
| Course Requirements Checklist                | 10  |
| Discussion Board Forums (3 x 70 points each) | 210 |
| Annotated Bibliography                       | 150 |
| Oncology Case Study (2 x 120 points each)    | 240 |
| Cardiovascular/Pulmonary Presentation        | 145 |
| Quizzes (6 x 30 points each)                 | 180 |
| Final Exam                                   | 75  |

**Total Points 1010**

B. Grading Scale

A = 940–1010 A- = 920–939 B+ = 900–919 B = 860–899 B- = 840–859  
 C+ = 820–839 C = 780–819 C- = 760–779 D+ = 740–759 D = 700–739  
 D- = 680–699 F = 0–679

C. MSN Policies

Refer to [MSN Handbook](#).

D. Disability Assistance

Students with a documented disability may contact Liberty University Online's Office of Disability Accommodation Support (ODAS) at [LUOODAS@liberty.edu](mailto:LUOODAS@liberty.edu) to make arrangements for academic accommodations. Further information can be found at [www.liberty.edu/disabilitysupport](http://www.liberty.edu/disabilitysupport).

If you have a complaint related to disability discrimination or an accommodation that was not provided, you may contact ODAS or the Office of Equity and Compliance by phone at (434) 592-4999 or by email at [equityandcompliance@liberty.edu](mailto:equityandcompliance@liberty.edu). Click to see a full copy of Liberty's [Discrimination, Harassment, and Sexual Misconduct Policy](#) or the [Student Disability Grievance Policy and Procedures](#).

## ***COURSE SCHEDULE***

### **NURS 506**

Textbook: McCance & Huether, *Pathophysiology* (2019).

| <b>MODULE/<br/>WEEK</b> | <b>READING &amp; STUDY</b>   | <b>ASSIGNMENTS</b>   | <b>POINTS</b>       |
|-------------------------|--|--|---------------------|
| <b>1</b>                | McCance & Huether: chs. 1–4<br>1 presentation<br>2 websites  | Course Requirements Checklist<br>Class Introductions<br>DB Forum 1<br>Quiz 1 | 10<br>0<br>70<br>30 |
| <b>2</b>                | McCance & Huether: chs. 7–10<br>1 presentation<br>10 selected articles for the<br>Annotated Bibliography | Annotated Bibliography<br>Quiz 2   | 150<br>30           |
| <b>3</b>                | McCance & Huether: chs. 12–13<br>1 presentation  | DB Forum 2<br>Quiz 3   | 70<br>30            |
| <b>4</b>                | McCance & Huether: chs. 15, 17–18<br>1 presentation<br>1 website   | Oncology Case Study 1<br>Quiz 4  | 120<br>30           |
| <b>5</b>                | McCance & Huether: chs. 21–22,<br>27–29<br>1 presentation  | Case Study 2<br>Quiz 5   | 120<br>30           |
| <b>6</b>                | McCance & Huether: chs. 28–31<br>1 presentation  | DB Forum 3<br>Quiz 6   | 70<br>30            |
| <b>7</b>                | McCance & Huether: chs. 32–37<br>1 presentation  | Cardiovascular/Pulmonary<br>Presentation                                     | 145                 |
| <b>8</b>                | McCance & Huether: chs. 38–43<br>1 presentation  | Final Exam   | 75                  |
| <b>TOTAL</b>            |  |  | <b>1010</b>         |

DB = Discussion Board

**NOTE:** Each course module/week begins on Monday morning at 12:00 a.m. (ET) and ends on Sunday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.