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

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

1. Computer with basic audio/video output equipment
2. Internet access (broadband recommended)
3. Microsoft Word
V. 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 life span.
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 in the discussion of Pathophysiology.
E. Evaluate genetic and genomic influences and risk factors related to disease and disorders.

VI. Course Requirements and 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. Then, the student must post 2 replies of at least 250 words each. For each thread, the student must support his/her assertions with at least 2 scholarly citations published within the last 5 years in current APA format. Each reply must cite at least 1 source.
D. Annotated Bibliography
   The student will identify 5 scholarly sources published within the last 5 years related to a clinical area of expertise. These sources will be peer reviewed, and high levels of evidence (i.e randomized control trials). The student will provide a brief review of each article (3–5 sentences). The sources must be cited in current APA format.
E. Oncology Case Study (2)
   The student will write a case study on a chosen type of cancer. The 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 cancer to the cellular level. The student will also discuss a holistic plan of care including any genetic/genomic, counseling/testing, patient education, and physical, psychosocial, spiritual, and cultural care the patient should receive. The case study must be 3–4 pages using current APA format (excluding the title page or reference page) and include at least 4 scholarly sources published within the last 5 years.
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, including genetics/genomics, specific for 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 1 of the following age groups: infant/child, adult, or elderly. The presentation must be at least 15 slides (excluding the title and reference slide[s]) and include 3–5 scholarly sources published within the last 5 years. Current APA is required for references and format.

G. Quizzes (6)

Each quiz will cover the Reading & Study material. Each quiz is open-book/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/open-notes, and have a time limit of 1 hour and 30 minutes.

VII. COURSE GrADING AND POLICIES

A. Points

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Requirements Checklist</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Forums (3 at 65 pts ea)</td>
<td>195</td>
</tr>
<tr>
<td>Annotated Bibliography</td>
<td>150</td>
</tr>
<tr>
<td>Oncology Case Study (2 at 125 pts ea)</td>
<td>250</td>
</tr>
<tr>
<td>Cardiovascular/Pulmonary Presentation</td>
<td>150</td>
</tr>
<tr>
<td>Quizzes (6 at 30 pts ea)</td>
<td>180</td>
</tr>
<tr>
<td>Final Exam</td>
<td>75</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
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B. Scale

- 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 Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.
# COURSE SCHEDULE

**NURS 506**


<table>
<thead>
<tr>
<th>MODULE/ WEEK</th>
<th>READING &amp; STUDY</th>
<th>ASSIGNMENTS</th>
<th>POINTS</th>
</tr>
</thead>
</table>
| 1            | McCance & Huether: chs. 1–4  
1 presentation  
2 websites | Course Requirements Checklist  
Class Introductions  
DB Forum 1  
Quiz 1 | 10  
0  
65  
30 |
| 2            | McCance & Huether: chs. 7–10  
1 presentation  
10 selected articles for the  
Annotated Bibliography | Annotated Bibliography  
Quiz 2 | 150  
30 |
| 3            | McCance & Huether: chs. 12–13  
1 presentation | DB Forum 2  
Quiz 3 | 65  
30 |
| 4            | McCance & Huether: chs. 15, 17–18  
1 presentation  
1 website | Oncology Case Study 1  
Quiz 4 | 125  
30 |
| 5            | McCance & Huether: chs. 21–22,  
27–29  
1 presentation | Oncology Case Study 2  
Quiz 5 | 125  
30 |
| 6            | McCance & Huether: chs. 31–32  
1 presentation | DB Forum 3  
Quiz 6 | 65  
30 |
| 7            | McCance & Huether: chs. 34–35  
1 presentation | Cardiovascular/Pulmonary Presentation | 150  |
| 8            | McCance & Huether: chs. 37–38,  
40–41  
1 presentation | Final Exam | 75  |
|              |               | **TOTAL** | **1010** |

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.