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

BIOM 610
HUMAN NEUROLOGY & NEUROANATOMY

COURSE DESCRIPTION
This course will provide an introduction to the structural and functional features of the nervous system. Topics covered will include the gross anatomy of the brain and spinal cord, cellular and molecular neurobiology, sensory and motor systems, the major neurotransmitter systems, and brain regulation of behavior and body physiology.

RATIONALE
This course introduces the essential anatomy and physiology of the human nervous system. The role of the nervous system in regulating and directing the systems of the body is a crucial component of understanding human physiology. Specifically, this course is designed to prepare the student in the biomedical disciplines to correlate functional neuroanatomy with clinical outcomes, and provide the necessary foundation for future studies in the neurosciences.

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. Identify fundamental principles of the anatomy, development, and physiology of the nervous system.
B. Analyze the structure and function of brain systems.
C. Appraise several forms of psychiatric and neurological illness.
V. **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 provide a thread in response to the provided prompt for each forum. Each thread must be at least 500 words, demonstrate course-related knowledge, and include at least 1 scholarly reference in addition to the Bible. Along with the thread, the student is required to reply to 2 other classmates’ threads. Each reply must be 250 words and contain at least 1 scholarly reference in addition to the Bible.

D. Article Reviews (3)

   The student will review current peer-reviewed, scholarly articles selected by the instructor and write a 750-word review on his/her findings. All citations must be in current APA format.

E. Case Study Review

   The student will write a 5–8-page research paper that focuses on a neurological case study. The student must include at least 5 references from current, published scientific journals. All citations must be in current APA format.

F. Neuroanatomy Midterm Exam

   The exam will cover all neuroanatomy presented in Module/Weeks 1–4. The exam will be open-book/open-notes, contain 50 short answer questions, and have a 70-minute time limit.

G. Midterm Exam

   The exam will cover the Reading and Study in Module/Weeks 1–4. The exam will be open-book/open-notes, contain 60 multiple-choice and 2 essay questions, and have a 2-hour time limit.

H. Neuroanatomy Final Exam

   The exam will cover the neuroanatomy topics in Modules/Weeks 1–8. The exam will be open-book/open-notes, contain 100 short answer questions, and have a 70-minute time limit.

I. Final Exam

   The exam will cover the Reading and Study in Modules/Weeks 1–8. The exam will be open-book/open-notes, contain 100 multiple-choice and true/false questions, and have a 2-hour time limit.
VI. **COURSE GRADING AND POLICIES**

A. **Points**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Requirements Checklist</td>
<td>10</td>
</tr>
<tr>
<td>Case Study Topic Approval</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Forums</td>
<td>180</td>
</tr>
<tr>
<td>Article Reviews</td>
<td>210</td>
</tr>
<tr>
<td>Case Study Review</td>
<td>100</td>
</tr>
<tr>
<td>Neuroanatomy Midterm Exam</td>
<td>100</td>
</tr>
<tr>
<td>Neuroanatomy Final Exam</td>
<td>150</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>100</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
</tr>
</tbody>
</table>

B. **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. **Disability Assistance**

Students with a documented disability may contact Liberty University Online’s Office of Disability Accommodation Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at 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. 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**

**BIOM 610**


<table>
<thead>
<tr>
<th>MODULE/WEEK</th>
<th>READING &amp; STUDY</th>
<th>ASSIGNMENTS</th>
<th>POINTS</th>
</tr>
</thead>
</table>
| 1           | Nolte: chs. 1–3  
Nolte & Angevine: ch. 1  
3 presentations  
2 websites | Course Requirements Checklist  
Class Introductions  
Article Review 1 | 10  
0  
70 |
| 2           | Nolte: chs. 4–8  
Nolte & Angevine: ch. 1  
3 presentations  
2 websites | Case Study Topic Approval  
Article Review 2 | 10  
70 |
| 3           | Nolte: chs. 9–10  
Nolte & Angevine: chs. 2, 8  
2 presentations  
4 websites | Article Review 3 | 70 |
| 4           | Nolte: chs. 11–12, 15  
Nolte & Angevine: chs. 3, 8  
2 presentations  
1 website | Neuroanatomy Midterm Exam  
Midterm Exam | 100  
100 |
| 5           | Nolte: chs. 13–14, 17  
Nolte & Angevine: ch. 5–8  
2 presentations | DB Forum 1 | 60 |
| 6           | Nolte: chs. 16, 18–19  
Nolte & Angevine: chs. 5–8  
2 presentations  
4 website | DB Forum 2 | 60 |
| 7           | Nolte: chs. 20–22  
Nolte & Angevine: chs. 5–8  
2 presentations  
2 websites | DB Forum 3 | 60 |
| 8           | Nolte: chs. 23–24  
Nolte & Angevine: chs. 5–8  
2 presentations | Case Study Review  
Neuroanatomy Final Exam  
Final Exam | 100  
150  
150 |

**TOTAL** | 1010 |

DB = Discussion Board

**NOTE:** Each course 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**.