Instructor: Matthew Goupell  
Office: 0119E Lefrak (LEF) Hall  
Phone: x58552  
Email: goupell@umd.edu  

The best way to contact me is by email. My office is in a hallway which is normally locked. Please knock at the door closest to LEF0123. If you ever come to my office for office hours and I have stepped out momentarily, ask people in the locked hallway as to my whereabouts.

My Office Hours:  
To be decided in class on first day or by appointment
COURSE DESCRIPTION AND OBJECTIVES

A deep understanding of the anatomy and physiology of the auditory and vestibular systems are crucial for correct clinical diagnoses.

At the end of this course, the students should be able to:

1. Have knowledge of anatomy and physiology, pathophysiology and embryology, and development of the auditory and vestibular systems.
2. Have knowledge of normal aspects of auditory physiology and behavior over the lifespan.

COURSE REQUIREMENTS AND POLICIES

Materials Needed:


Attendance:
- Attendance to class is not required in this class; however, it is highly encouraged.
- Please inform me ahead of time about excused absences for missing class/quizzes/exams due to illness, family emergencies, religious observances, inclement weather, etc. so that I can try to accommodate your situation.
- In the extreme circumstance that you cannot inform me that you will miss an exam before it occurs, contact me as soon as you can so that I can try to accommodate your situation.

University Emergency Closing:
In the event that the University is closed for an emergency or extended period of time, I will communicate to you via email to indicate schedule adjustments, including rescheduling of examinations and assignments due to inclement weather and campus emergencies. Official closures and delays are announced on the campus website http://www.umd.edu. The snow phone line is 301-405-SNOW, as well as local radio and TV stations.

Class Participation:
Class participation is highly encouraged. Students are expected in class to perform ungraded writing, interact with other students and discuss ideas, speak to the entire class, etc. I will not waste your time regurgitating the textbook for you as a “sage on the stage.” The discussions are intended to find areas that the class do not understand and collectively address that deficiency. I will often wander about the room during our discussions to ask individuals questions. Thus, the course is not designed well for people who only like copying notes and not interacting.

Students are expected to treat each other with respect. Disruptive behavior of any kind will not be tolerated. Students who are unable to demonstrate civility with one another, the teaching assistants, or me will be subject to referral to the Office of Student Conduct or to the University Campus Police. You are expected to adhere to the Code of Student Conduct.

Other Electronic Devices:
• Cell phones and similar communication devices should be silenced before class time.
• Laptop computers and smartphones are allowed.
• No pictures or videos during lectures please – I’m famous enough already.

Quizzes and Exams:
• Exams (200 pts each): We will have 4 exams for the class (3 one-hour exams on Tuesdays and 1 final exam on the last day of class), which will be returned after I grade them.

Grading:
Your course grade will depend upon four exams.
A+: 100-97    A: 93-96    A-: 90-92
B+: 90-87    B: 83-86    B-: 80-82
C+: 80-77    C: 73-76    C-: 70-72
D+: 70-67    D: 63-66    D-: 60-62
F: 59 or less

Copywrite:
Class lectures and other materials are copyrighted and may not be reproduced for anything other than personal use without written permission from me. Lectures, materials, quizzes, and tests may not be sold to other parties.

Academic Integrity:
It is the responsibility of all students to read and understand the misconduct guidelines of UM – College Park. (http://www.testudo.umd.edu/soc/dishonesty.html)
Any suspicion of academic dishonesty will result in a report filed with the Student Honor Council. Any of the following acts, when committed by a student, shall constitute academic dishonesty:
• CHEATING: intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
• FABRICATION: intentional and unauthorized falsification or invention of any information or citation in an academic exercise.
• FACILITATING ACADEMIC DISHONESTY: intentionally or knowingly helping or attempting to help another to violate any provision of this Code.
• PLAGIARISM: intentionally or knowingly representing the words or ideas of another as one’s own in any academic exercise.

Special Accommodations and Religious Inclusiveness:
I will make every effort to accommodate students who are registered with the Disability Support Service (DSS) Office and who provide me with a University of Maryland DSS Accommodation form. Only written DSS documentation of the accommodation will be considered.

It is the policy of the UM – College Park to not schedule exams on religious holidays. If I have accidentally scheduled an exam on a religious holiday that you observe, please let me know by the end of the second week of class. I will reschedule the exam for the entire class to a more appropriate date.

Course Outline and Daily Preparation:
We will try to keep to the course schedule, but we will stay flexible depending on whether some material takes more or less time than planned.

Daily readings shown on the schedule should be done before coming to class. I highly encourage reading the weeks material again after class (I know, I know, that is a lot of reading!). Lectures as .pdfs will be uploaded to the
ELMS site before the lecture (although I suppose sometimes corrections to the lectures will be made). Supplementary material such as figures, exercises, and other things will also be uploaded to the course website from time to time.

**COURSE SCHEDULE**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Number</th>
<th>Topics Covered</th>
<th>Reading Chapter(s)</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 15, 2014</td>
<td>1</td>
<td>Introduction, Outer Ear, Middle Ear</td>
<td>1-3</td>
<td></td>
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<tr>
<td>July 16, 2014</td>
<td>2</td>
<td>Anatomy of the Inner Ear</td>
<td>4</td>
<td></td>
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<tr>
<td>July 17, 2014</td>
<td>3</td>
<td>Cochlear Mechanics</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>July 22, 2014</td>
<td>4</td>
<td>Cochlear Electrophysiology</td>
<td>6</td>
<td>#1</td>
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<tr>
<td>July 23, 2014</td>
<td>5</td>
<td>Cochlear Electrophysiology</td>
<td>6</td>
<td></td>
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<tr>
<td>July 24, 2014</td>
<td>6</td>
<td>Auditory Nerve</td>
<td>7</td>
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<td>July 29, 2014</td>
<td>7</td>
<td>Cochlear Nucleus</td>
<td>8</td>
<td>#2</td>
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<tr>
<td>July 30, 2014</td>
<td>8</td>
<td>Superior Olivary Complex</td>
<td>9</td>
<td></td>
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<tr>
<td>July 31, 2014</td>
<td>9</td>
<td>The Lateral Lemniscus and Inferior Colliculus</td>
<td>10</td>
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<tr>
<td>August 5, 2014</td>
<td>10</td>
<td>The Lateral Lemniscus and Inferior Colliculus</td>
<td>10</td>
<td>#3</td>
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<td></td>
<td></td>
<td>Medial Geniculate Body and Auditory</td>
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<td>August 6, 2014</td>
<td>11</td>
<td>Thalamus</td>
<td>11</td>
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<tr>
<td>August 7, 2014</td>
<td>12</td>
<td>The Auditory Cortex and Subcortex</td>
<td>12</td>
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<td>August 12, 2014</td>
<td>13</td>
<td>Efferent System</td>
<td>15</td>
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<tr>
<td>August 13, 2014</td>
<td>14</td>
<td>Peripheral Vestibular System</td>
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<td></td>
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<tr>
<td>August 14, 2014</td>
<td>15</td>
<td>Final Exam</td>
<td></td>
<td>#4</td>
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LEARNING OBJECTIVES AND OUTCOMES
HESP 634: ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VESTIBULAR SYSTEMS

STUDENT NAME:

SEMESTER COMPLETED: Summer 2014

<table>
<thead>
<tr>
<th>Number</th>
<th>Title</th>
<th>Exam/quiz Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Embryology and development of the auditory and vestibular systems, anatomy and physiology, neuroanatomy and neurophysiology, and pathophysiology</td>
<td>*</td>
</tr>
<tr>
<td>A3</td>
<td>Normal aspects of auditory physiology and behavior over the life span</td>
<td>*</td>
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<tr>
<td>A10</td>
<td>Pathologies related to hearing and balance and their medical diagnosis and treatment</td>
<td>*</td>
</tr>
<tr>
<td>B1</td>
<td>Implement activities that prevent and identify dysfunction in hearing and communication, balance, and other auditory-related systems</td>
<td>*</td>
</tr>
</tbody>
</table>

Method of assessment denoted by (*).
Verification of assessment denoted by checkmark.

The above-named student has successfully demonstrated mastery of these learning outcomes, through class lectures and discussion, in-class examinations, and homework assignments.

_____________________________  Date:
Matthew Goupell, Ph.D.
Faculty instructor