

University of Florida
College of Public Health & Health Professions Syllabus
Course Number: SPA 6581 Anatomy and Physiology of Balance (1 credit hours)
Class Time: Wed (10:40 – 11:30 am)
Class Location: HPNP G201

Semester: Fall 2021

Delivery Format: On-Campus

Course Website: All information for this course will be made available on the e-learning site, which can be accessed at <http://elearning.courses.ufl.edu>. Gatorlink username and password is required to access site.

Instructor Name: Shinichi Someya, PhD, Associate Professor

Room Number: M2-30, Medical Science Building

Phone Number: 352-294-5167

Email Address: someya@ufl.edu

Office Hours: Wednesday 11:30 am – 4:00 pm or by appointment

Preferred Course Communications: email

Prerequisites: none

PURPOSE AND OUTCOME

Course Overview: The goal of this course is to provide students with an understanding of the anatomical structures involved in balance and the functions they serve to support an understanding of the nature of balance disorders.

Relation to Program Outcomes and Clinical Certification Standards: *This course addresses program outcomes that pertain to the following Clinical Certification Standards.*

Standard #	Standard
IV-B	Demonstrates knowledge of basic human communication processes, including the appropriate biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases.

Course Objectives and/or Goals

1. Knowledge Objectives and/or Goals

- 1) Correctly identify key structures in the inner ear (IV-a1)
- 2) Describe the contribution of the sensory systems involved in balance (IV-c2&6)
- 3) Correctly identify the oculo-motor muscles and their functional pairings (IV-c2&6)
- 4) Describe the function of the vestibulospinal pathways (IVc2&6)
- 5) Summarize embryology and evolution of the inner ear (IV-a1)

*- Parenthetical notations refer to audiology knowledge standards from the CAA of ASHA.

Instructional Methods: On-Campus

DESCRIPTION OF COURSE CONTENT

Topical Outline/Course Schedule: (Tentative and subject to change)

Week	Date	Topic(s)	Exams	Readings
1	8/25	<ul style="list-style-type: none"> Introduction Inner Ear & Vesicular Organs Overview 		
2	9/1	<ul style="list-style-type: none"> Semicircular Canals & Otolithic Organs 		
3	9/8	<ul style="list-style-type: none"> Quiz 1 	Quiz	
4	9/15	<ul style="list-style-type: none"> Mechanotransduction 		Nakashima et al Nature Review
5	9/22	<ul style="list-style-type: none"> Genetics of the Vestibular Disorders 		
6	9/29	<ul style="list-style-type: none"> Quiz 2 	Quiz	
7	10/6	<ul style="list-style-type: none"> Midterm Exam 	Exam	
8	10/13	<ul style="list-style-type: none"> Paper Presentation 1 		
9	10/20	<ul style="list-style-type: none"> Eye/Oculomotor anatomy Eye Movement and Oculomotor Function 		
10	10/27	<ul style="list-style-type: none"> Quiz 3 	Quiz	
11	11/3	<ul style="list-style-type: none"> Paper Presentation 2 		
12	11/10	<ul style="list-style-type: none"> Spinal Cords & Descending Tracts 		
13	11/17	<ul style="list-style-type: none"> Quiz 4 	Quiz	
14	11/24	<ul style="list-style-type: none"> Thanksgiving Holiday 		
15	12/1	<ul style="list-style-type: none"> Final Exam Review 		
16	12/8	<ul style="list-style-type: none"> Final Exam 	Exam	

Course Materials and Technology:

There is no text. All readings will be provided by the instructor through the Canvas site.

The information in the following textbooks is coordinated with the in-class discussions. The textbooks are not required, but chapters from the books will be used for reading, presentation and discussion material.

For technical support for this class, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

ACADEMIC REQUIREMENTS AND GRADING

Assignments:

Reading assignments will be discussed during the scheduled class times. Students should prepare by reading materials in advanced in order to fully engage in class discussions. Supplementary materials are to be used as study aids for particular topics. There will be 4 Quizzes, 1 Midterm Exam, and 1 Final Exam.

Class Attendance Policy: Attendance to classes is required.

Grading

Requirement	Date	Points or % of final grade	Clinical Standard(s) Being Assessed
Quiz 1	TBA	10%	IV-B
Quiz 2	TBA	10%	IV-B
Quiz 3	TBA	10%	IV-B
Quiz 4	TBA	10%	IV-B
Midterm Exam	10/6	30%	IV-B
Final Exam	12/8	30%	IV-B
Total		100%	

Point system used (i.e., how do course points translate into letter grades).

Points earned	95-100	90-94	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	<60
Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E

Please be aware that a C- is not an acceptable grade for graduate students. A grade of C counts toward a graduate degree only if an equal number of credits in courses numbered 5000 or higher have been earned with an A. In addition, the Bachelor of Health Science Program does not use C- grades.

You must include the letter grade to grade point conversion table below. Letter grade to grade point conversions are fixed by UF and cannot be changed.

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E	WF	I	NG	S-U
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0	0.0	0.0	0.0	0.0

For greater detail on the meaning of letter grades and university policies related to them, see the Registrar's Grade Policy regulations at:

<http://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Exam Policy:

Missed Exam Policy. If you have an emergency or become sick and cannot attend class during the exam, you must contact me prior to the class time on the day that you will miss the exam or you will not be able to make-up the exam. You are responsible for scheduling when you will make-up the missed exam.

Policy Related to Required Class Attendance:

You are expected to attend every class scheduled.

All faculty are bound by the UF policy for excused absences. For information regarding the UF Attendance Policy see the Registrar website for additional details:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

STUDENT EXPECTATIONS, ROLES, AND OPPORTUNITIES FOR INPUT

Expectations Regarding Course Behavior:

Academic Honesty: The UF student Honor Code states: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." On all work submitted for credit by students at the university, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." UF's Academic Honesty Policy can be found at <http://regulations.ufl.edu/chapter4/4017.pdf>.

Communication Guidelines:

Office Hours: Wednesdays 2:00 pm -4:00 pm or by appointment.

Academic Integrity:

Students are expected to act in accordance with the University of Florida policy on academic integrity. As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge:

"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."

You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied:

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For additional information regarding Academic Integrity, please see Student Conduct and Honor Code or the Graduate Student Website for additional details:

<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

<http://gradschool.ufl.edu/students/introduction.html>

Please remember cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior.

Online Faculty Course Evaluation Process:

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

SUPPORT SERVICES

Accommodations for Students with Disabilities:

If you require classroom accommodation because of a disability, you must register with the Dean of Students Office <http://www.dso.ufl.edu> within the first week of class. The Dean of Students Office will provide documentation of accommodations to you, which you then give to me as the instructor of the course to receive accommodations. Please make sure you provide this letter to me by the end of the second week of the course. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health:

Students sometimes experience stress from academic expectations and/or personal and interpersonal issues that may interfere with their academic performance. If you find yourself facing issues that have the potential to or are already negatively affecting your coursework, you are encouraged to talk with an instructor and/or seek help through University resources available to you.

- The Counseling and Wellness Center 352-392-1575 offers a variety of support services such as psychological assessment and intervention and assistance for math and test anxiety. Visit their web site for more information: <http://www.counseling.ufl.edu>. On line and in person assistance is available.
- You Matter We Care website: <http://www.umatter.ufl.edu/>. If you are feeling overwhelmed or stressed, you can reach out for help through the You Matter We Care website, which is staffed by Dean of Students and Counseling Center personnel.
- The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: <https://shcc.ufl.edu/>
- Crisis intervention is always available 24/7 from:
Alachua County Crisis Center
(352) 264-6789
<http://www.alachuacounty.us/DEPTS/CSS/CRISISCENTER/Pages/CrisisCenter.aspx>

Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.
