Anatomy of the Peripheral Nervous System

Course Syllabus

Course Number: GMS 6610

Credit Hours: Three (3) credit hours

Course Format: This online course is tailored for asynchronous distance learners.

Course Description:

The **Anatomy of the Peripheral Nervous System Course** will be presented by a combination of online lectures and online laboratory sessions. The anatomy and function of spinal nerves and cranial nerves of the human body will be discussed and observed in 3D human model, as well as by anatomical imaging will be correlated to transverse, sagittal, and coronal human sections. Medical-based scenarios, e.g., nerve lesions, will be used to promote retention and recall.

Prerequisites:

This advanced medical anatomy course will require a strong science foundation of five (5) full-semester science courses related to Biology, Chemistry, and/or Physics. Students are expected to have already taken GMS5605 Online Medical Human Anatomy; GMS5606 Medical Human Anatomy Laboratory.

Contacts:

If you have questions about the course or its content contact the **Course Coordinator**, Dr. Kyle E. Rarey (<u>rarey@ufl.edu</u>), Professor, Department of Anatomy & Cell Biology and Otolaryngology. For technical questions or concerns, contact Phi Nguyen (<u>pnguyen8080@ufl.edu</u>).

Schedule: The course is offered every semester, including the summer.

Time Commitment: This course will require about 90 hours of time, or about 6 hours per week, allocated between different course activities (i.e., lectures, quizzes, and overviews).

Course Goals:

The goals of this course are threefold: (1) to further enhance a foundation of the fundamental concepts and terminology of the anatomy of the human body. (2) to discuss anatomical organization into functional systems related to medical correlations; and (3) to promote critical thinking of the clinical consequences of the anatomical injuries, musculoskeletal disorders, pulmonary diseases, gastrointestinal abnormalities, and renal pathophysiology.

Student Learning Outcomes:

Upon completion of this online lecture Laboratory course, students will be able to:

SLO1: Knowledge - Identify and explain basic anatomical terminology as it relates to its organization to form the functional system or the peripheral nervous system of the human body. The anatomy of the somatic nervous system and the autonomic nervous system will be discussed with emphasis on spinal nerves and cranial nerves.

Assessment - Within the course, students will be assessed through assignments to create multiple

choice questions, including rationales for correct and incorrect answers, and then posting the questions and rationales for the discussion assignment within each module. Additionally, students will be assessed through multiple choice exams.

<u>SLO2: Critical Thinking Skills</u> - Apply critical thinking skills to evaluate selected medical conditions with alterations in the somatic and autonomic divisions of the peripheral nervous system.

Assessment - Critical thinking will be assessed via students submitting questions that include second-level questions that address effects of injuries or lesions related to the anatomy assigned. Multiple choice examinations will also be utilized.

Learning Resources:

1. Unit overviews, recorded lectures with PowerPoint presentations, and other multimedia resources will be provided on the course web site.

2. Required software:

Visible Human Dissector Program, Touch of Life Technologies. Purchase available at http://www.toltech.net/schools/ufl. Price is \$79.

3. Recommended Text:

Principles of Human Anatomy, 14th, or 15th Edition. Tortora, G.J. and Nielsen, M., John Wiley & Sons, 2014 that you used for GMS5605 or equivalent text.

- 4. Practice on-line quizzes that consist of multiple-choice questions will be available for each module of study.
- 5. Clinical exercises in anatomical injuries, musculoskeletal disorders, pulmonary diseases, gastrointestinal abnormalities, and renal pathophysiology will be used to promote critical thinking.

Course Participation:

Students are required to post 3 multiple choice questions (MCQs) every week at the assignment site. Each MCQ must have the rationales for the correct answers and rationales for the incorrect choices in order to receive points. Each question will count as 1 point. One of the three submitted questions must be at least be a second order question. Questions should be published before the weekly due date. Late submissions will be valued less. Total possible participation points = 48** (3MCQs × 1pts × 16wks**)

48 points available for 16wks during Fall and Spring semesters. Only 39 points will be available for 13wks during Summer semesters

Examinations and Grading:

One examination consisting of 50 multiple-choice questions (each valued of 2 points) will be given for each module. Each exam will be worth 100 points and will be timed. Students must take all examinations at a

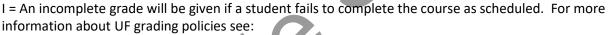
computer with a web camera. Exams will be secured and proctored using HonorLock. More about HonorLock: <u>Getting Started with HonorLock</u>; <u>HonorLock Student Prep</u>; <u>HonorLock Student Privacy</u>

Module examinations = 400 possible points (~90%) MCQ submissions = 48 or 39 possible (~10%)

448 or 439 Total grade points

Grading Scale

Grade	Point Range	Percentage
Α	417 - 448	93-100%
A-	402 - 416	90-92%
B+	389 - 401	87-89%
В	371 - 388	83-86%
B-	357 - 370	80-82%
C+	343 - 356	77-79%
С	326 - 342	73-76%
C-	312 - 325	70-72%
D+	298 - 311	67-69%
D	280 - 297	63-66%
D-	263 - 279	59-62%
E	< 263	< 59%



https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx.

Make-Up Exam Policy:

Students are required to take all four modular examinations. Make-up exams are given only under special circumstances. If the student is unable to take a scheduled modular examination, the course director must be notified before the examination. In addition, a written letter of explanation, requesting that the absence from the exam be excused, must be presented before the exam or immediately afterwards. An excused absence is allowable when: 1) the student is hospitalized and/or has been advised by a licensed medical practitioner or hospital not to attend the exam, 2) if there is a documented death of an immediate family member, or 3) the examination falls on a religious holiday. All excused absences will be considered on an individual basis by the course director. With the exception of highly extenuating circumstances, failure to follow the prescribed procedures will result in a grade of zero for that exam. Further information about the policies for attendance and religious holidays for The University of Florida can be found at:

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

Course Outline

Module	Learning Activities	Reading Assignment
1-1	1. Online Lecture: Anatomy of the Nervous System	Tortora, Chapter 16

	2. Online Lab session	Visible Human Dissector,
	2. Offinic Edb 3035011	Anatomy Pathways,4-1. Spinal
	3. Online Overview Session	Cord & Spinal Nerves
		·
		Online Dissector, Chapter 2.
1-2	1. Online Lecture: Anatomy of the Peripheral Nervous	Tortora, Chapter 16
	<u>System</u>	
		Visible Human Dissector,
	2. Online Lab Session	Anatomy Pathways,4-1. Spinal
		Cord & Spinal Nerves
	3. Online Overview Session	,6
1-3	1. Online Lecture: Anatomy of the Spinal Cord	Tortora, Chapter 17
	2. Online Lab Session	Visible Human Dissector,
	2 Outline Oceanies Consists	Virtual Edge, Exercise 1. Spinal
	3. Online Overview Session	Cord
1-4	1. Online Lecture: Anatomy of Spinal Nerves	Tortora, Chapter 17
	2. Online Lab Session	▶ Visible Human Dissector,
		Anatomy Pathways,4-1. Spinal
	3. Online Overview Session	Cord & Spinal Nerves
1-5	1. Online Lecture: Sensory & Motor Organization in	Tortora, Chapter 17
	Spinal Nerves	
		Visible Human Dissector,
	2. Online Lab Session	Anatomy Pathways,4-1. Spinal
		Cord & Spinal Nerves
	3. Online Overview Session	
	Module 1 Everyingtion (colling)	
Module 1 Examination (online)		

Module	Learning Activities	Reading Assignment
2-1	1. Online Lecture: Anatomy of Spinal Nerves of Upper	Tortora, Chapter 20
	Extremities	
		Visible Human Dissector,
	2. Online Lab Session	Anatomy Pathways,4-1. Spinal
		Cord & Spinal Nerves
	3. Online Overview Session	
		Online Dissector, Chapter 5.
2-2	1. Online lecture: Lesions of the Brachial Plexuses.	Tortora, Chapter 20

	2. Online Lab Session.	Visible Human Dissector,
		Virtual Edge, Exercise 11. Axilla,
	3. Online Overview Session	Brachial Plexus, and Arm.
2-3	1. Online Lecture: Anatomy of Spinal Nerves of Lower	Tortora, Chapter 20
	<u>Extremities</u>	
		Visible Human Dissector,
	2. Online Lab Session	Anatomy Pathways,4-1. Spinal
		Cord & Spinal Nerves
	3. Online Overview Session	
2-4	1. Online Lecture: Lesions of the Lumbo-Sacral	Tortora, Chapter 20
	<u>Plexuses</u>	
		Visible Human Dissector,
	2. Online Lab Session	Virtual Edge, Exercise 14.
		Gluteal Region and Lumbosacral
	3. Online Overview Session	Plexus.
		Online Dissector, Chapter 13.
Module 2 Examination (online)		

Module	Learning Activities	Reading Assignment
3-1	1. Online Lecture: Anatomy of Cranial Nerves I, II, VIII	Tortora, Chapter 18
	and V, VII	
		Visible Human Dissector,
	2. Online Lab Session	Anatomy Pathways, 4-3. Cranial
	2 Ouling October Control	Nerves
	3. Online Overview Session	
3-2	1. Online Lecture: Anatomy of Cranial Nerves III, IV, VI	Tortora, Chapter 18
	2. Online Lab Session	Visible Human Dissector,
		Virtual Edge, Exercise 6.
4	3. Online Overview Session	
3-3	1 Online Lecture: Anatomy of Cranial Nerves IX, X, XI	Tortora, Chapter 18
	and XII	
		Visible Human Dissector,
	2. Online Lab Session	Virtual Edge, Exercise 6.
	3. Online Overview Session	
3-4	1. Online Lecture: Effects of Lesions of Cranial Nerves	Tortora, Chapter 18
J-4	1. Offinite Lecture. Lineus of Lesions of Chainal Nerves	Tortora, chapter 18

	Online Lab Session Online Overview Session	Visible Human Dissector, Anatomy Pathways, 4-3. Cranial Nerves
Module 3 Examination (online)		

Module	Learning Activities	Reading Assignment
4-1	1. Online Lecture: Anatomy of the Sympathetic Nervous	Tortora, Chapter 19
	System.	
		Online Dissector, Chapter 21.
	2. Online Lab Session	
	2 Online Overview Consists	
	3. Online Overview Session	
4-2	1. Online Lecture: Anatomy of the Parasympathetic	Tortora, Chapter 19
	Nervous System	, control is
	2. Online Lab Session.	Online Dissector, Chapter 21.
	3. Online Overview Session	
4-3	1. Online Lecture: Anatomy of the Enteric Nervous	Tortora, Chapter 19
	System	
	2. Oalbardah Garabar	Online Dissector, Chapter 21.
	2. Online Lab Session.	
	3. Online Overview Session	
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Module 4 Examination (online)		

Assignments:

The course is divided into 4 modules. Each module consists of selected chapters with specific reading assignments and laboratory assignments. For each module students will: (1) review the learning objectives and corresponding lecture notes; (2) read and complete the assignments as given; (3) complete interactive exercises associated with each module; (4) take online practice examinations; and (5) take the scheduled, online module examination.

Attendance:

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx. A student's overall success, however, is based upon following the course schedule for learning the assigned readings and practicing the recommended exercises. Students are strongly encouraged to develop self-discipline to complete all text readings and online exercises, including the practice examinations.

Academic Integrity:

Please review the University's complete policy regarding academic dishonesty, found online in the student handbook: https://regulations.ufl.edu/wp-content/uploads/2018/06/4.040-1.pdf

Students are expected to abide by the University's Academic Honesty Policy, and to adhere to the following pledge:

"We, the member 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 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."

According to the UF Student Guide, Academic dishonesty includes the following.

Cheating - copying another's work for academic gain.

Plagiarism - representing another's work as your own.

Bribery - offering, giving, soliciting, or receiving goods or services of value for academic gain.

Misrepresentation - altering facts (e.g., signing an absent classmate's name to an attendance sheet).

Conspiracy - planning with others to commit academic dishonesty.

Fabrication - making up information to avoid punishment or other difficulty.

Copyright Information:

Please also review the use of copyrighted materials: http://guides.uflib.ufl.edu/copyright

Accommodation Policy:

Students requesting classroom accommodation must first register with the Dean of Students' office, 202 Peabody Hall, 352-392-1261. The DSO will provide documentation to the student who must then provide this documentation to the instructor.

Student Support Services

As a student in a distance learning course or program you have access to the same student support services that on campus students have. For course content questions contact your instructor.

For any technical issues you encounter with your course please contact the UF computing Help Desk at 352-392-4357. For Help Desk hours visit: http://helpdesk.ufl.edu/.

For a list of additional student support services links and information please visit: http://www.distance.ufl.edu/student-services

Special Accommodations

Students requesting disability-related academic accommodations must first register with the Disability Resource Center. https://disability.ufl.edu/

The Disability Resource Center will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Complaints

Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

Online Course Evaluation Process:

Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://ufl.bluera.com/ufl/. 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.

Campus Resources:

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: http://www.counseling.ufl.edu/cwc/Default.aspx, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161.

University Police Department, 392-1111 (or 9-1-1 for emergencies). http://www.police.ufl.edu/

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to <u>Learning-support@ufl.edu.https://lss.at.ufl.edu/help.shtml</u>

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. http://www.crc.ufl.edu/

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.