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2020

PT 410: CLINICAL PATHOLOGY II - 2020

DESCRIPTION: Selected pathological conditions of body systems, associated surgical interventions, the influence of co-morbidities, pharmaceutical interventions, and safety concerns are discussed with application to physical therapy patient/client management. Laboratory.

DEPARTMENT OF PHYSICAL THERAPY

INSTRUCTOR(S): Mark Romanick, PT, PhD, ATC; Thomas Mohr, PT, PhD; Sue Jenö, PT, PhD, David Relling, PT, PhD; Rachel Bothun, PT, DPT

CREDIT HOURS: Three (3) credit hours

CLOCK HOURS: Lecture/Readiness Tests/Application Activities/Exams: Online Tuesdays 8-11 am; Wednesdays 8-10 am; Thursdays – 8-11 am.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

1. Demonstrate an understanding of the signs and symptoms of selected disorders and describe how the pathology may influence the patient or physical therapy intervention planning. (Cognitive-Comprehension)
2. Apply the course concepts regarding selected pathologies, associated precautions, and intervention recommendation covered in this course to develop and appropriate medical management plans for patients with the specific pathologies. (Cognitive – Synthesis)
3. Demonstrate the ability to analyze the effects of multiple co-morbidities and prioritize intervention needs appropriately. (Cognitive –Analysis)
4. Demonstrate the ability to evaluate intervention strategies and plans of care and adapt intervention plans for specific conditions (infectious and immunodeficiency diseases, obesity, reduced bone density, etc.) in the development of an individualized plan of care.
(Cognitive – Analysis & Synthesis)
5. Demonstrate an understanding of pharmacological intervention for specific, selected pathologies and modify intervention plans for the effects and precautions associated with selected medications. (Cognitive – Synthesis)

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COURSE PREREQUISITES: Registered in Professional Physical Therapy curriculum.

REQUIRED READING:

Goodman, CG; Fuller, KS. Pathology: Implications for the Physical Therapist, 4th ed

TEACHING METHODS AND CURRICULUM PRACTICE MODEL: Teaching methods in this course include lecture, case scenario, and Team-Based Learning pedagogy. Course material will be delivered online (eg, Zoom, Yuja recordings, Blackboard assignments). Students will be required to demonstrate competency in course content through quizzes, application activities, and written examinations. The above objectives contribute to the Practice Model Components of Foundational Science; Clinical Science, Professional Practice, Patient/Client Practice and Management.

METHODS FOR EVALUATION:

Readiness Assessment following the completion of the Guided Learning Outline prior to class:

Individual Readiness Assurance Tests (IRAT) are used to evaluate student pre-class preparation and content knowledge.

Team Readiness Assurance Tests (TRAT) are used to evaluate the team's foundational content knowledge and preparedness for the application activities. Immediate feedback mechanisms are used with the TRATs to reinforce priority content concepts and accuracy of foundational knowledge.

Team application activities and graded assignments are used to evaluate the application of course concepts and clinical decision making.

Comprehensive Exams: Written midterm and final examinations.

OUTLINE OF CONTENT AND REQUIRED/RECOMMENDED READINGS:

See accompanying course content schedule.

EXAMINATIONS:

Students are expected to pass written examinations and graded application assignments. In accordance with the UND-PT Scholastic Standards, a passing cumulative exam score (IRATs, TRATs, & Applications, and Written Unit Exam scores) must be achieved to pass the course. Course grade will be calculated with the following distribution:

A	90-100
B	80-89.49
C	76-79.49
Unsatisfactory	<76

An overall grade of 76% is required to pass the course. See the UND-PT *Scholastic Standards* document for further reference.

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ATTENDANCE:

Class attendance is expected 100% of the time. Students must first attempt to notify the instructor by phone or in person for any absences. The student must also contact the instructor directly through e-mail or written documentation for any absences.

MAKE UP WORK/EXAMINATIONS:

If an absence is anticipated, arrangements for make-up examinations and assignments should be completed **prior** to the absence. If an absence is unanticipated, arrangements for make-up examinations must be made **by the student within three days** of the student's return to classes. **Students may be assigned additional coursework for all absences.** Students will not be allowed to make-up exams/quizzes/assignments for an unexcused absence.

FINAL GRADE COMPOSITION:

	<u>Weight</u>
Estimate of points constituting the total grade:	
Individual Readiness Assessment Tests (IRATs) – 7	20%
Team Readiness Assessment Tests (TRATs) – 7	20%
Graded Application Activities - up to 10	10%
Midterm & Final Written Exams	50%

ACADEMIC INTEGRITY:

In accordance with the rules concerning scholastic dishonesty in the *Code of Student Life** at the University of North Dakota, I affirm that I understand these rules and I agree to comply with them.

I will not:

- a) receive any additional information or assistance for any exam other than what was provided during class or approved tutor sessions
- b) copy from another student's test
- c) collaborate with or seek aid from another student who may have previously taken the exam
- d) knowingly use, buy, sell, steal, or solicit in whole or in part the contents of any exam
- e) bribe another person to obtain information about any exam

ACADEMIC GRIEVANCES

If academic issues occur, students are required to work through channels of communication to resolve the problem before going to the chair or dean. The channel is student, instructor, chair, associate dean health sciences, and dean. Latest review: May 2020

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Notice of Nondiscrimination

It is the policy of the University of North Dakota that no person shall be discriminated against because of race, religion, age, color, gender, disability, national origin, creed, sexual orientation, gender identity, genetic information, marital status, veteran's status, or political belief or affiliation and the equal opportunity and access to facilities shall be available to all. Concerns regarding Title IX, Title VI, Title VII, ADA, and Section 504 may be addressed to Donna Smith, Director of Equal Employment Opportunity/Affirmative Action and Title IX Coordinator, 401 Twamley Hall, 701.777.4171, und.affirmativeactionoffice@UND.edu or the Office for Civil Rights, U.S. Dept. of Education, 500 West Madison, Suite 1475, Chicago, IL 60611 or any other federal agency.

Disability Access Statement

Contact me, Mark Romanick, mark.romanick@und.edu; 218-791-2646, to request disability accommodations, discuss medical information, or plan for an [emergency evacuation](#).

To get confidential guidance and support for disability accommodation requests, students are expected to register with DSS at [Disability Services](#), 180 McCannel Hall, or 701.777.3425.

Reporting Sexual Violence

If you or a friend has experienced sexual violence, such as sexual assault, domestic violence, dating violence or stalking, or sex-based harassment, please contact UND's Title IX Coordinator, Donna Smith, for assistance: 701.777.4171; donna.smith@UND.edu or go to [Title IX](#).

Faculty Reporting Obligations Regarding Sexual Violence

It is important for students to understand that faculty are required to share with UND's Title IX Coordinator any incidents of sexual violence they become aware of, even if those incidents occurred in the past or are disclosed as part of a class assignment. This does not mean an investigation will occur if the student does not want that, but it does allow UND to provide resources to help the student continue to be successful at UND. If you have been the victim of sexual violence, you can find information about confidential support services at [Title IX](#).

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Ensure Accessibility

To comply with the latest accessibility guidelines, documents posted online, including, but not limited to, Adobe PDF files, Microsoft Word documents, Microsoft PowerPoint presentations, and online flipbooks, must be screen-reader friendly.

For directions on how to make your syllabus and other course materials accessible, go to Blackboard > Services > Atomic Learning > Creating an Accessible Syllabus (for technical assistance with Atomic Learning, contact UND Tech Support at [UND Tech Support](#)).

Date 2020	PT 410: CLINICAL PATHOLOGY II Outline of Content	Preparation & Assignments
Tues 5/26 8-11 am	Endocrine System (Diabetes)– Eric Johnson MD, UNDSMHS/Altru Health Systems	Chapter 11
Wed 5/27 8-10 am	Endocrine System Pathologies: Dr. Mark Romanick	Chapter 11 – Pre-Reading Assignment: Endocrine #1 & Endocrine #2
Th 5/28 8-11 am	Endocrine System Pathologies - Dr. Casey Ryan, Altru Health Systems	Chapter 11
Tues 6/2 8-11 am	IRAT/TRAT Endocrine System Applications #1 & #2: Drs. Mark Romanick & Tom Mohr	Chapter 11
Wed 6/3 8-10 am	Introduction to Pharmacology: Rick Clarens PharmD	Handout Posted to Blackboard
Th 6/4 8 – 11 am	Cardiovascular System Dr. Dave Relling	Chapters 12 Pre-Reading Assignment: Cardiovascular System #1
Tues 6/9 8-11 am	Cardiovascular System Application #1 Drs. Mark Romanick, Sue Jenö, & Rachel Bothun	Chapters 12
Wed 6/10 8-10 am	IRAT/TRAT Cardiovascular System – Dr. Dave Relling	Chapters 12
Th 6/11 8 – 11 am	Cardiopulmonary System – Dr. Dave Relling	Chapters 15
Tues 6/16 8-11 am	IRAT/TRAT Cardiopulmonary Application #2 - Drs. Mark Romanick, Sue Jenö, Rachel Bothun	Pre-Reading Assignment: Cardiovascular #2/ Respiratory Systems/ Lymphatics

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Wed 6/17 8-10 am	Implications of Laboratory Studies Brooke Solberg, PhD, MLS (Medical Laboratory Science)	Chapter 40 Pre-Reading Assignment: Laboratory Tests and Values
Thur 6/18 8-11 am	Midterm Exam Endocrine, Pharmacology, Cardiovascular, Cardiorespiratory	
Tues 6/23 8-11 am	Gastrointestinal, Hepatobiliary, Pancreatic Systems Dr. David Relling	Chapters 16 & 17 Pre-Reading Assignment: GI, Hepatobiliary, & Pancreatic System Pathologies
Wed 6/24 8-10 am	GI, Hepatic, Pancreatic & Biliary Application Drs. Mark Romanick & Rachel Bothun	Chapters 16 & 17
Thurs 6/25 8 – 11 am	IRAT/TRAT GI, Hepatic, Pancreatic & Biliary Application Drs. Mark Romanick & Rachel Bothun	Chapters 16 & 17
Tues 6/30 8-11 am	Renal/Urologic Systems Dr. Tom Mohr	Chapter 18
Wed 7/1 8-10	IRAT/TRAT Renal/Urologic Systems Application Drs. Tom Mohr & Sue Jenö	Chapter 18 Pre-Reading Assignment: Renal/Urologic System
Thur 7/2 8 – 11 am	Hematology/Oncology— Drs. Rachel Bothun & Sue Jenö	Chapters 9, 14
Tues 7/7 8-11 am	Genetics/Developmental Disorders IRAT/TRAT & Application Drs. Mohamed Elhamadany & Mark Romanick	Pre-Reading Assignment
Wed 7/8 8-10 am	Immune System and Infection Drs. Mark Romanick & Rachel Bothun	Chapter 7
Thurs 7/9 8-11 am	IRAT/TRAT Immune System and Infection Application Drs. Mark Romanick & Rachel Bothun	Chapter 7 Pre-Reading Assignment: Immune System Pathologies
Tuesday July 14	Final Exam Lab Studies, Gastrointestinal, Hepatic, Pancreatic, & Biliary Systems, Hematology/Oncology, Genetic/Developmental, Renal/Urologic Systems, Immune System	