

PT 641: Management of the Complex Patient—2024

Course Description: PT 641: Management of the Complex Patient. 3 Credits. Facilitates the physical therapist's role as an interdependent practitioner working within a collaborative medical model. Utilizes case studies across a variety of clinical settings to examine the management of patient populations with one or more systems involvement including illness, injury, impairment, activity limitations and participation restrictions. Activities will focus on body systems screening for medical disease, selecting appropriate tests and measures, evaluation and prognosis, psycho-social considerations, and a comprehensive plan of care. Laboratory. Prerequisite: Registered in professional physical therapy curriculum. S.

Department Offering the Course and Instructor(s): Physical Therapy
David Relling, PT, PhD; Mohamed Elhamadany, PT, DPT, PhD, PCS; Nick Holkup, PT, DPT

Classroom: SMHS Room E312

Phone: 701 777-4091 (Dave)

Office Hours: By Appointment.

Credit Hours: 3 credit hours

Clock Hours: Monday & Wednesday 1:00-3:00 pm

Teaching Methods and Learning Experiences: Lecture. Discussion. Laboratory. Written assignments relative to PT examination, evaluation, intervention, and/or referral. Lecture and laboratory examinations.

Course Prerequisites: Registered in Professional Physical Therapy Curriculum.

Curriculum Practice Model: PT 641 Management of the Complex Patient contributes to the Curriculum Practice Model in the areas of Clinical Sciences and Patient/Client Management.

1. Course Objectives:

Screening Procedures: At the completion of the course, the physical therapy student will be able to:

1. Correctly identify and perform screening procedures (subjective and objective) for constitutional signs and symptoms. (CAPTE SRE 7C; 7D 17, 18, 20. Cognitive Domain= application; Psychomotor Domain= Complex Overt Response. All= Intermediate.
2. Correctly differentiate and perform screening procedures (subjective (including pain) and/or objective) for medical disease in each of the following systems: psychological, cardiovascular, pulmonary, hematologic, integumentary, gastrointestinal, renal/urologic, reproductive, hepatic and biliary, endocrine and metabolic, oncologic, immunologic. (CAPTE SRE 7C, &D5, 17, 18, 19

(e,g,j,k,l,o,p,q,r,s,t,u,v,w),20. Cognitive Domain= Analysis; Psychomotor Domain= Complex overt response. All= Intermediate)

- a. Screening procedures include: history; presentation and management of the patient's/client's current condition; past medical and surgical histories; family history; medications; medical tests and results (clinical laboratory and radiographic findings); work environments; past and current social, sleep, and fitness habits; and a review of systems, including constitutional symptoms.
- b. Objective screening procedures for the systems identified above will include observation, auscultation, palpation, and percussion as defined for PT students on the laboratory examination rubrics.

Case Scenarios: When provided with a case scenario, the student will be able to:

3. Choose, complete, and evaluate the findings of the appropriate differential screening procedures. (CAPTE SRE: 7C, 7D5, 16, 17, 18, 19(e,g,j,k,l,o,p,q,r,s,t,u,v,w), 20, 22. Cognitive Domain= Evaluation; Psychomotor Domain= Complex overt response. A= Advanced.)
4. Determine the need for a medical consultation and/or referral. (CAPTE SRE 7D16; Cognitive Domain= Evaluation; All= Advanced)
5. If a consultation and/or referral is/are needed, determine the mechanism (oral or written communication), content (findings of the screening) and time frame (emergency, urgent, non-urgent) appropriate for the initial referral. (CAPTE SRE: 7D10, 11, 16, 33; Cognitive Domain= Analysis; All= Intermediate to Advanced)
6. Determine how a stated medical diagnosis (and co-presenting laboratory and imaging findings and medications) will impact the physical therapy management of the patient/client. (CAPTE SRE: 7C, 7D10, 11, 20, 23; Cognitive= Analysis; All= Intermediate to Advanced.)
7. Alter and/or add to the physical therapy plan of care appropriately. (CAPTE SRE: 7C, &D10, 11, 18, 2-, 23, 24; Cognitive= Synthesis; All= Advanced.)
8. Identify and discuss the contributions of the various team members (including family members, support personnel, and professionals) involved with management of the patient/client. (CAPTE SRE: 7D7, 16, 24, 36, 39; Cognitive= Comprehension; All= Intermediate.)
9. Revise the physical therapy plan of care appropriately, based upon the resolution or regression of the physical therapy and/or medical status of the patient/client. (CAPTE SRE: 7C, 7D10, 11, 16, 20, 23, 24, 26, 30; Cognitive= Evaluation; All= Advanced)

Communication: At the completion of the course, the physical therapy student will be able to:

10. Provide constructive (oral) feedback to the evaluator (classmate) as to oral communications provided and techniques performed during systems screening

examination and the development of plans of care. (CAPTE SRE: 7D5, 7, 8; Cognitive= Evaluation; Psychomotor= Origination; All= Advanced.)

General Directions:

Class attendance is expected. Please have available textbooks, readings, assessment tools, and computers. Be prepared to wear appropriate lab attire. (Women: shorts, sports bra & tank top. Men: shorts)

Methods of Evaluation: Assignments and Grading

Written assignments will be structured around a patient/client scenario involving a systemic and/or musculoskeletal diagnosis. Examination and evaluation procedures, including screening procedures; diagnoses; prognoses; goals; plans of care with referrals and educational programming; and physical therapy interventions are to be addressed. 'Typical' interventions may be altered or additional interventions may be provided to accommodate the medical diagnosis. The impact of medications on clinical decisions will be addressed. Evidence based clinical decision making will be emphasized. Written assignments will be part of select topic areas on the syllabus. See additional case instructions.

Your grade is based upon written assignments, lecture and laboratory examinations, and participation. **Weighting of grades is as follows:**

Activity	Weight
Written projects involving case scenarios (5 cases)	30%
Clothesline project	Required
Bloodborne Pathogen Content	5%
Three written examinations (15% per exam)	45%
Practical Examination	15%
Assignments/Attendance/Participation	5%

FINAL GRADING:

A= 90-100%	Starfish flags will be sent to individual students who receive less than 80% on an assignment or examination. The flag notification requires the student to meet with the faculty member sending the notification. An action plan may be implemented.
B= 80-89.9%	
C= 76-79.9%	To pass the course, written examinations with a score lower than 76% must be retaken and the student must achieve a passing grade of 76% or higher. The original grade is retained for grading purposes. Retakes of laboratory examinations follow the UND PT Scholastic Standards document.
F < 76%	

ACADEMIC INTEGRITY:

In accordance with the rules concerning scholastic dishonesty in the Code of Student Life at the University of North Dakota, As a student, 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.

Statements on Academic Dishonesty may be found in UND's *Code of Student Life*.

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, Assistant Vice President for Equal Opportunity and Title IX/ADA Coordinator, 102 Twamley Hall, 701.777.4171, UND.EO.TitleIX@UND.edu or the Office for Civil Rights, U.S. Dept. of Education, 230 S. Dearborn St., 37th Floor, 500 West Madison, Suite 1475, Chicago, IL 60611 or any other federal agency.

Accessibility Statement

The University of North Dakota is committed to providing equal access to students with documented disabilities. To ensure access to this class and your program, please contact [Accessibility for Students](#) to engage in a confidential discussion about accommodations for the classroom and clinical settings. Accommodations are not provided retroactively. Students are encouraged to register with Accessibility for Students at the start of their program.

More information can be obtained by email, UND.accessibilityforstudents@UND.edu, or by phone at 701.777.2664.

Religious Accommodations

UND offers religious accommodations, which are reasonable changes in the academic environment that enable a student to practice or observe a sincerely held religious belief without undue hardship on the University. Examples include time for prayer or the ability to attend religious events or observe a religious holiday. To request an accommodation, complete [student religious accommodation request form](#) . If you have any questions, you may contact the [Equal Opportunity & Title IX Office](#).

Pregnancy Accommodations

Students who need assistance with academic adjustments related to pregnancy or childbirth may contact the [Equal Opportunity & Title IX Office](#) or Academic Affairs to learn about your options. Additional information and services may be found at [Pregnancy Resources](#).

Reporting Discrimination, Harassment, or Sexual Misconduct

If you or a friend has experienced sexual misconduct, such as sexual harassment, domestic violence, dating violence, or stalking, please contact the [Equal Opportunity & Title IX Office](#) or UND's Title IX Coordinator, Donna Smith, for assistance at 701.777.4171 or donna.smith@UND.edu.

You may also contact the Equal Opportunity & Title IX office if you or a friend has experienced discrimination or harassment based on a protected class, such as race, color, national origin, religion, sex, age, disability, sexual orientation, gender identity, genetic information, pregnancy, marital or parental status, veteran's status, or political belief or affiliation.

Faculty Reporting Obligations Regarding Discrimination, Harassment, or Sexual Misconduct

It is important for students to understand that faculty are required to share with UND's Title IX Coordinator any incidents of sexual misconduct or of discrimination or harassment based on a protected class that 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 impacted by discrimination, harassment, or sexual misconduct, you can find information about confidential support services at the [Equal Opportunity and Title IX](#) webpage.

Health and Safety

UND is committed to maintaining a safe learning environment while providing quality learning experiences for our students. As such, UND asks students and instructors to be flexible when necessary to promote a safe environment for learning. Please do not attend an in-person class or lab if you are feeling ill or if you have been directed by health professionals to quarantine or isolate. UND follows isolation and quarantine guidelines recommended by the [CDC and the North Dakota Department of Health](#). If you are not able to attend class or lab, please notify your instructor as soon as possible and discuss options for making up any missed work in order to ensure your ability to succeed in the course. If you will have an extended absence due to serious illness or other uncontrollable circumstances, you may request an absence notification through the [Office of Community Standards](#). Similarly, if your instructor is ill they may need to cancel class or temporarily move your course to online delivery to ensure that you are able to complete the course successfully. Please consult the [COVID-19 at UND](#) webpage for information regarding on-campus COVID-19 testing, isolation and quarantine guidelines, and vaccines.

**PT 641 Management of the Complex Patient
Spring 2024**

Lecture/Lab/Discussion

SMHS Room E312---Lecture/Lab Monday & Wednesday 1-3 pm

Instructors: Relling, Elhamadany, Holkup

Week	Day & Date	Topic	Readings	Faculty
1				
	1/10	Introduction to Class; Introduction to Processes for Case Scenarios Screening for Referral; Lab Items	G&S: 1, 2, 3, 4	Dave
2	1/15	MLK Holiday---NO Class		
	1/17	Differential Screening		Dave
3	1/22	CardioVascular	G&S: 8; J: 3, 4, 11	Nick
	1/24	Cardiovascular Lab	G&S: 7; J: 3, 4, 12, 13	Nick
4	1/29	Pulmonary	J 11	Dave
	1/31	Pulmonary Lab		Dave
5	2/5	Gastrointestinal & GI Cases	G&S: 9; J: 3, 4, 14	Mohamed
	2/7	Hepatic/Biliary	G&S: 10; J: 3, 4, 14	Mohamed
6	2/12	GI & Hepatic/Biliary Lab		Mohamed
	2/14	Written Exam I	Intro, CV, Pulm, GI, Hepatic/Biliary	
7	2/19	President's Day---NO Class		
	2/21	Section I Review Lab		ALL
8	2/26	Practical Exam		ALL
	2/28	Integumentary	G&S 4,5; J 5	Nick
9	3/4	Spring Break		
	3/6	Spring Break		
10	3/11	Hematologic	G&S 4,5; J 5	Nick
	3/13	Cancer/Oncology	G&S 14	Nick
11	3/18	Immunologic	G&S: 13; J: 3, 4, 6	Dave
	3/20	Interviewing & Psych Disorders /Substance Abuse (TBD)		Sarah Nielsen, PhD, OTR/L
12	3/25	Motivational Interviewing (TBD)		Molly Nienhuis, PT, DPT
	3/27	Written Exam II , (Clothesline Project Due)	Cancer/Oncology, Integumentary, Hematologic, Immunologic, Psych/Motivational interviewing	
13	4/1	Holiday Break---NO Class		
	4/3	Endocrine/Metabolic	GS 12	Dave
14	4/8	Renal and Urogenital	G&S: 11; G&F: 18, 19	Dave
	4/10	Neurological Disease	G&S: 5	
15	4/15	Urogenital Application---Holly Bommersbach	G&S: 11; G&F: 18, 19	Holly Bommersbach PT

	4/17	MSK Hip and Pelvis		Jordan Miller PT, DPT and Megan Langerud PT,DPT
	4/19	Bloodborne Pathogen DUE		
16	4/22	Case Application 1—U/E		Gary S.
	4/24	Case Application 1—U/E		Gary S.
17	4/29	Case Application 2—L/E		Gary S.
	5/1	Case Application 2—L/E		Gary S.
	5/6-10	FINAL WRITTEN EXAM TBA		

COURSE TEXTs and URLs:

G&S: Heick J. & Lazaro RT, *Goodman and Snyder's Differential diagnosis for Physical Therapists: Screening for referral. 7th ed.* St. Louis, MO: Elsevier Saunders; 2023.

J: Jarvis C. Pocket Companion: *Physical Examination and Health Assessment. 7th Ed.* St. Louis, MO: Elsevier Saunders; 2016.

G&F: Goodman CC, Fuller KS. *Pathology: Implications for the Physical Therapist (5th ed).* St. Louis, MO: Elsevier Saunders; 2021. (Pathophysiology resource textbook)

University of California San Diego School of Medicine Physical Examination Guides:
<https://meded.ucsd.edu/clinicalmed/introduction.html>