

Course Title and Number: PT 512: Therapeutic Agents

Description: Detailed lectures and demonstrations on therapeutic agents. This course is designed to provide the physical therapy student with the theory and application of various hydrotherapy, phot-therapy, and thermotherapy modalities in physical therapy, including heat, light, sound, and water.

Department Offering the Course:

Physical Therapy Department

Instructor(s):

Gary Schindler, DPT, Ph.D; Michelle LaBrecque, DPT; Schawnn Decker, DPT, Steve Halcrow, DPT.

Lead Instructor:

Gary Schindler, DPT, Ph.D., OCS, SCS, LATC, CSCS

Office Hours: T and R: 10:00-12:00 AM: or by appointment

Office location: PT Dept. Room E324

Office Phone Number: 701-777-6081

Best ways to contact me:

1. Email: gary.schindler@und.edu: E-mails will be answered within a 24-hour period unless otherwise states; however, may not be read after work hours.
2. Cell number: 701-335-3134: (Please identify yourself on your message).

Credit Hours: 3 Credit Hours

Clock Hours:

Lecture Hours = 16 hours per semester

Lab Hours = 48 hours per semester

Lecture: Monday and Wednesday: 1:00-2:00 PM (refer to lecture and lab schedule for specific times and topics covered). SMHS: Room E312.

Lab: Monday and Wednesday: 2:00-5:00 PM (refer to lecture and lab schedule for specific times and topics covered). SMHS: Room E312

PT 512 Therapeutic Agents
GOALS, OBJECTIVES, AND STUDENT LEARNING OUTCOMES

Course Objectives:

Following instructions, the PT student will be able to...

1. Identify and discuss the physical principles of heat, electromagnetic radiation, electricity, and mechanical forces as applied to therapeutic modalities (Cognitive-Comprehension: 7D27B and 7D27C)
2. Following this course, the PT student will be able to discuss, interpret, and explain how each modality affects the human body physiologically and theoretically
3. Identify, describe and explain indications, contraindications, and precautions for interventions when applying physical agents and mechanical modalities (Cognitive-Comprehension: 7D5, 7D16, 7D20, 7D27B, 7D27C, and 7D30).
4. Determine and apply the appropriate modality in a safe and effective manner (Psychomotor-Guided Response and Mechanism: Cognitive-Application and Evaluation: 7D16, 7D20, 7D27B, 7D27C, 7D30, and 7D17).
5. Interpret normal and abnormal physiologic responses and psychological reactions to treatment and make clinical decision regarding modifications and treatment plan (Cognitive-Application and Comprehension: Psychomotor-Adaptation: 7D16, 7D20, 7D27B, 7D27C, 7D30, and 7D10).
6. Assess treatment outcome in response to the application of a physical agent or electrotherapeutic modality (Cognitive-Evaluation: 7D16, 7D20, 7D27B, 7D27C, 7D30, 7D10, and 7D23).
7. Demonstrate professional behavior, documentation, and communication skills in all aspects of physical therapy practice and education including therapeutic modalities among patients/clients, families, and other health care providers (Psychomotor-Complex Overt Response and Mechanism: 7D4, 7D5, 7D7, 7D12, 7D24, and 7D32).
8. Explain the implications of individual cultural differences as related to physical therapy practice (examination, evaluation, prognosis, plan of care, expected outcomes, and patient/client interactions) (Cognitive-Comprehension and Affective Domain-Valuing: 7D5, 7D8, 7D10, and 7D12).

** Students may vary in their competency levels on these outcomes

*** Students can expect to achieve these outcomes only if they honor all course policies, attend classes regularly, complete all assigned work in good faith and on time, and met all other course expectations of them as students.

Course Prerequisites:

Registered in professional Physical Therapy curriculum

Outline of Content:

See attached course syllabus

Curriculum Practice Model:

The above Objectives contribute to the Practice Model Components of Patient Care: Screening/ Evaluation/ Progression/Discharge; Patient Care: Physical Therapy Intervention; Communication; and Education.

Recommended Text:

Cameron, MH, Physical Agents in Rehabilitation: An Evidence-Based Approach to Practice, 5th ed., St. Louis, MO: Elsevier, 2018. Text can be purchased at the UND bookstore: 775 Hamline Street, Grand Forks, ND.

Prentice WE, Quillen WS, Underwood F. Therapeutic Modalities in Rehabilitation, 4th edition. New York, NY: McGraw-Hill, 2011. Online: Access Physiotherapy

Required Materials

Lab clothes and your brain!!

Description of Teaching Methods and Learning Experiences:

Lecture - traditional lecture with functional application of knowledge

Laboratory - lab consists of therapeutic application and case study discussions

Discussion – case study discussions, small group discussions with teaching assistants and faculty to review content and prepare for upcoming examinations

Rationale for Teaching Methods: Information is presented in lecture, laboratory, discussion, and at times a team-based learning format. Independent learning is expected throughout the course in an effort to promote life-long learning in therapeutic agents, application, and plan of care progression to patient care services. The laboratory portion of the course requires hands on application usually working in groups of two. Case studies are used to enhance the learning experience in the laboratory. Discussion sessions allow the students to interact in small groups with graduate teaching assistants and faculty. This allows opportunity for individual and group learning utilizing methods that can be tailored to the needs of the specific students. Group discussion and tutorial opportunities enhance the learning opportunities for the students.

ASSESSMENTS:

Written Assessments: (Minimum of 175 points)

Test #1 and #2 will be a minimal of 50 points each: Test #3 will be an accumulative final equaling a minimal of 75 points. Tests will be comprised of matching, T/F, multiple choice, multiple-multiple choice, and short answer. Written exams will encompass knowledge, application, evidence-based rationale, and professional written documentation. Written exams will assist in assessing the achievement of student learning objectives 1-4, 6, 8, 11, and 13.

Example Question:

MULTIPLE-MULTIPLE CHOICE:

Block out **A** if the correct answers are **1, 2, and 3 only**.

Block out **B** if the correct answers are **1 and 3 only**.

Block out **C** if the correct answers are **2 and 4 only**.

Block out **D** if the correct answer is **4 only**.

Block out **E** if **all of the answers** are correct.

1. Which of the following are correct for the use of whirlpool?
 1. Whirlpools are generally used for the treatment of wounds.
 2. A 'neutral warmth' temperature (92-96°F) is used for open wounds.
 3. Patient may exercise the affected part during treatment.
 4. Additives are always used during WP treatment.

Practical Assessments: (Minimum of 40 points)

Practical #1 and #2 will be a minimal of 20 points each: Practical #1 will include assessment of traction application. Practical #2 will include assessment regarding cold pack, ice massage, paraffin bath, hot pack, and ultrasound. Practical exams will encompass knowledge, application, evidence-based rationale, and professional communication. Practical exams will be assessed via a scoring rubric and will assist in assessing the achievement of student learning objectives 1-10 and 12-13.

Example Practical Case Scenario:

Dx: Fibrositis upper back and cervical spine

S: chronic, increased c/o pain and stiffness; decreased ADL function; increased family financial stresses

O: marked mm spasm upper back and cervical spine; guarded rigid posture; ROM WNL cervical spine but slow and guarded; strength NT

PARTICIPATION/QUIZZES

Participation:

Lab scenarios will be implemented throughout lab-time. You will be given a variety of patient scenarios in which you will have to decide on which modality you will utilize and provide rationale as to why. You will be asked and be responsible to know indications, contraindications, precautions, setting parameters, positioning, safety, and etc. of the modality and its application. This will assist us in understanding your knowledge prior to you being tested, prepare you for the upcoming practical exams, and allow for practical "real-life" application of the modalities. You will not be given a grade; however, this will go towards your overall class participation. These activities will be utilized to enhance achievement of knowledge, application, and professional communication (verbal/non-verbal) outcomes stated above.

Quizzes:

Quizzes may be administered without notice so please be prepared. Participation will be expected with each student **required** to seek feedback regarding their practical exams from the faculty who administered the exam. Seeking such feedback will assist in understanding what could have been completed more efficiently, but also to receive positive feedback of what you did very well. Sometimes we need to hear more positive feedback! These quizzes will be utilized to enhance achievement of knowledge outcomes as stated above.

**Quizzes will make up 5% of your overall grade, if completed. If quizzes are not given then the additional 5% will be added to the written exam percentage (so written exam will = 60%).

Methods of Evaluation

GRADING

5% -- Quizzes
40% -- Lab Exams
55% -- Exams

90-100% = A
80-89.9 % = B
76-79.9 % = C
< 76% = unsatisfactory

**Passing requires a grade of C or better for the course. Grading will be weighted based on the above percentages. Please refer to the practical score sheet in the syllabus for practical expectations.

Grades based on:	Quizzes	Announced/Unannounced
	Written Exams	#1 & #2 covering specific blocks of material #3 Comprehensive final
	Lab Practical Exams	2 covering specific blocks of material

Exams will be available for review once graded. Any questions regarding grading of exams are to be handled in a **professional manner** either **in-writing or in-person**, however please provide an explanation of your concern and your reference that includes the page number to justify your answer. Any correspondence concerning exams must be made within 1 week from the time exams are available for review. After that time, no alterations to exam grades will be made and existing score will be used for grade calculations.

The minimum passing score on written tests is 76%. The minimum passing score on practical examinations is 80%. If student receives a score below the above percentages a remediation process will occur and the student will be given one additional attempt at passing. The follow up exam can be taken no sooner than 48-hours after their original exam. If the second exam is failed, according to policy and procedure, the student may be removed from the program. Please refer to Scholastic Standards. For grading purposes, the original written exam and lab scores will be used in case remediation is needed.

Missed Exams/Assignments:

***No make-up written or practical exams are permitted in this course except in extreme circumstances (i.e. student is hospitalized, illness, death in immediate family, etc.). However, if needed the lead instructor will work with you and accommodate as able with proper documentation for the reason given requested.

Client Interaction

The Department of Physical Therapy has multiple opportunities for students to participate in clinical practice activities under the supervision of UND faculty, all of whom are licensed

physical therapists. During this particular course, you may be required to participate in the examination, evaluation, and physical therapy interventions of community members. You will be providing primary care to individuals with impairments and/or dysfunction during laboratory classes, community health fairs, pro bono clinics, and/or within traditional clinical practices.

Attendance/Tardiness:

Your academic work should reflect great similarity to your clinical work habits. You will be expected to arrive on time every day as would a licensed physical therapist. Your patients and your co-workers will need you. The same is true to your academic career. Your classmates need your participation and so do I. Learning is a two-way street. You learn from me, I learn from you, and you learn from each other. That being said attendance is mandatory for all lectures and lab activities. If you need to switch lab groups for the day you need to request the change **one-week** in advance and you are responsible for finding someone to replace you at that time. If you are absent you will be responsible for informing the lead instructor as to the reason of your absence, either by leaving a message with the PT office or the lead instructor via email or phone. **Documentation may be requested if three or more absences** accumulate. Tardiness is not tolerated. Please remember that arriving late for anything is a distraction and it places your lab partner in a less than adequate position for learning. **If the number of times you arrive late for lecture/lab exceed two you will have five course points deducted for every day thereafter you are late.**

Expectations and Accountability:

Independent learning is expected throughout this course. Students will be held responsible for material presented in lecture, pertinent information covered in the texts related to the topics discussed in lecture/lab/discussion, and all material covered in the laboratory. **Cell phone use in is prohibited** unless researching information regarding therapeutic agents. If you are expecting an important call please inform me. In addition, I have high expectation for all involved in this course. It may seem at times difficult, but I know we can get through it. I expect professionalism, accountability, dependability, integrity, honesty, patience, hard work ethic, and good attitudes to be maintained throughout this course and hopefully your life. This is only going to prepare you when you are a colleague of mine in two-years!!!! One of my favorite quotes is as follows....

“Whether you think you can, or you think you can’t—you’re right: Henry Ford

My Teaching Philosophy:

My teaching philosophy is simple. We are in this together. If you succeed, I succeed. I expect you to learn from me, I expect to learn from you, and you are expected to learn from each other. I sincerely feel that you get out what you put in. I try and make teaching as active as possible with as much “real-life” application as possible. You have 100% at the beginning of this course and it is up to you and I to keep it there. I attempt to utilize multiple methods to teach because many of us have different learning styles. I love questions but also love asking questions. My door is always open, but remember you are expected to enter and leave in a respectful, kind, and professional manner.

Questions/Problems:

If during the course of the semester questions should arise, the first step is to approach the lead instructor. If satisfaction is not achieved, the Department Chair, Dr. David Relling would be the next person to contact. Please refer to the Scholastic Standards Manual for further details. All questions regarding exams should be referred to the lead instructor.

Student Grievance Process:

Graduate students' grievances fall under the jurisdiction of the SMHS. The grievance policy for the School of Medicine and Health Sciences can be found at http://www.med.und.edu/occupational-therapy/_files/docs/smhs-grievance-policy.pdf

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) Possess or use material during an exam not authorized by the person giving the test.
- c) Copy from another student's test
- d) Substitute for another student or permit another student to substitute for oneself to take a 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

*Plagiarism means the appropriation, buying, receiving as a gift, or obtaining by any means another person's work and the unacknowledged submission or incorporation of it in one's own work.

*Collusion means the unauthorized collaboration with another person in preparing any academic work offered for credit.

In addition, copying of a test question or any part thereof, recording or photographing any test content is expressly prohibited and constitutes a failure to comply with the academic honesty standards of the Department and the University and may result in dismissal from the Program.

Drop/Refund:

Because this class is not a full (12-week) summer term course, the drop and refund dates differ significantly from full term courses. Contact Student Account Services at 701-777-3911 or UND.studentaccounts@email.und.edu to inquire about the dates and deadlines.

Accommodations for disability

If you plan to request disability accommodations in this course, you are expected to be registered with Disability Services: please visit <http://www.und.nodak.edu/dept/dss/index.htm> for

appropriate verification and procedure.. If you need accommodations in this course because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact Disability Support Services for Students at McCannel Hall, Rm 190, 701-777-3425.

****Any accommodation for exams must be requested at least 2 weeks prior to the exam date.**

Non-discrimination statement

As part of its commitment to providing an educational environment free from discrimination, UND complies with Title IX of the Education Amendments, which prohibits discrimination and harassment based upon sex in an institution's education programs and activities. Title IX prohibits sexual harassment, including sexual violence, of students at UND-sponsored activities and programs whether occurring on-campus or off-campus. Title IX also protects third-parties, such as visiting student athletes, from sexual harassment or violence in UND's programs and activities and protects employees from sexual harassment and discrimination. Prohibited harassment includes acts of verbal, nonverbal or physical aggression, intimidation or hostility based on sex, even if those acts do not involve conduct of a sexual nature; sex-based harassment by those of the same sex; and discriminatory sex stereotyping. UND will take prompt action to investigate and resolve reports of sexual harassment or sexual violence in accordance with Title IX. UND's Title IX coordinator is Donna Smith, Director of Equal Employment Opportunity/Affirmative Action, 401 Twamley Hall, 264 Centennial Drive Stop 7097, Grand Forks, ND 58202-7097, 701-777-4171, donna.smith@und.edu. Retaliation against any person who initiates an inquiry or complaint or participates in the investigation of a complaint is prohibited. Such conduct will be further cause for disciplinary action.

Reporting Sexual Violence

Any student who has been impacted by sexual violence (sexual assault, domestic violence, dating violence, stalking) or gender-based misconduct is encouraged to report and seek appropriate resources on campus. Please contact the Title IX Coordinator (Donna Smith, donna.smith@und.edu or 701-777-4171) to discuss your options. To view the policy and additional resources, please visit: <http://und.edu/finance-operations/university-police/sexual-violence-programs.pdf>.

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 UND.edu/affirmative-action/title-ix.

If problems 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.

How to recognize a student is in distress – for faculty, staff, and students

The UND Cares program (<http://und.edu/und-cares/>) seeks to educate faculty, staff and students on how to recognize warning signs that indicate a student is in distress. We use the term “distressed” when any of the following criteria apply to a student:

- Student has significant changes in eating, sleeping, grooming, spending, or other daily activities.
- Student has cut off or minimized contact with family or friends.
- Student has significant changes in performance or involvement in academics, sports, extracurricular, or social activities.
- Student describes problems (missing class, not remembering, destructive behavior) that result from experiences with drinking or drugs.
- Student is acting withdrawn, volatile, tearful, etc.
- Student is acting out of character or differently than usual.
- Student is talking explicitly about hopelessness or suicide.
- Student has difficulty concentrating or difficulty carrying on normal conversation.
- Student has excessive dependence on others for company or support.
- Student reports feeling out of control of one's emotions, thoughts, or behaviors.

How to seek help when in distress

We know that while college is a wonderful time for most students, some students may struggle. You may experience students in distress on campus, in your classroom, in your home, and within residence halls. Distressed students may initially seek assistance from faculty, staff members, their parents, and other students. In addition to the support we can provide to each other, there are also professional support services available to students on campus through the Dean of Students and University Counseling Center. Both staffs are available to consult with you about getting help or providing a friend with the help that he or she may need. For more additional information, please go to <http://und.edu/und-cares/>.

Ombuds Office: "It is not our differences that divide us. It is our inability to recognize, accept, and celebrate those differences" (Audre Lorde). Before your differences with others become difficult and costly conflicts or formal grievances, in both seen and unseen ways, talk with the Ombuds Office in an informal, identity-protecting, impartial, and independent space. 314 Cambridge St Room 201. 701.777.6239. www.UND.edu/ombuds.

UND Cares Response Team: The [UND Cares Response Team](#) is available to assist with incidents involving UND students 24 hours a day, seven days a week. They respond to incidents such as major accidents, missing students, sickness that interferes with attending classes, death, suicidal ideations, situations involving self-harm, psychological trauma and sexual violence. Contact directly at 701.777.2664 during regular business hours OR 701.777.3491 after hours.

COVID-19 SYLLABI INFORMATION Faculty are encouraged to add the following statement to their course syllabi. All members of the University community have a role in creating and maintaining a COVID-19 resilient campus. There are several expectations that all community

members, including students, are asked to follow for the safety of all: maintain physical distancing of at least 6 feet while in UND facilities, wear face coverings during interactions with others and in the classroom, wash their hands often and use hand sanitizer, properly clean spaces that they utilize, and if experiencing any symptoms, stay home and call their health care provider. Students electing not to comply with any of the COVID related requirements will not be permitted in the classroom, and may be subject to disciplinary action. We encourage all members of the University community choose to model positive behavior both on- and off-campus. Information regarding the pandemic and UND's efforts to create a COVID resilient campus is available on the COVID-19 blog (<http://blogs.und.edu/coronavirus/>). Please subscribe to stay up to date on COVID related information. Students who test positive for COVID-19 or are identified as a close contact are expected to immediately self-isolate/quarantine. If you have tested positive for COVID19 or have been placed in quarantine due to being identified as a close contact or travel we strongly recommend that you report the information to the Office of Student Rights and Responsibilities at 701.777.2664 or online at <https://veoci.com/veoci/p/w/ss2x4cq9238u>. Doing so will ensure students have the support they need to continue with their academic goals and to protect others.

**PT 512: THERAPEUTIC AGENTS
SUMMER 2021
LECTURE**

Monday and Wednesday, 1:00 – 5:00 p.m.

Day/Date	Faculty	Lecture	Readings
M, May 24	GS	Introduction to Course Thermal Agents: Cold & Heat Ultrasound	Ch. 1-9
W, May 26	All	Lab Only (1:00-5:00)	
M, May 31	All	HOLIDAY: Memorial Day	
W, June 2	All	Lab Only (1:00 - 5:00)	
M, June 7	All	Lab Only (1:00-5:00)	
W, June 9	SD	Hydrotherapy	Ch. 10, 16, 17, 18
M, June 14	ALL	Written (12:30-1:50) Practical Exam 1 (2:00- 5:00 pm)	Chap 1-9
W, June 16	SH	Traction: Lecture/Lab (all students)	Ch. 19
M, June 21	ML	Compression: Lecture/Lab	Ch. 20
W, June 23	All	Split Lab ONLY (1:00-5:00)	
M, June 28	All	Split Lab ONLY (1:00-5:00)	
W, June 30	All	Split Lab ONLY (1:00-5:00)	
M, July 5	All	NO CLASS: HOLIDAY	
W, July 7	All	Exam II (Chapters 18 & 20) (12:30 – 2:00)	
July 12-16		Written and Practical Final (Comprehensive, mainly Ch. 7-9 and 18-20)	

**PT 512: Therapeutic Agents
SUMMER 2021
LAB**

Monday and Wednesday, 1:00 p.m. – 5:00 p.m.

Day/Date	LAB
M, May 24	Demonstrations: CP, HP, IM, Paraffin (Split Lab 3:00-4:00 and 4:00-5:00)
W, May 26	CP, HP, IM, Paraffin & US (Split Lab: 1:00-5:00)
M, May 31	HOLIDAY: Memorial Day
W, June 2	CP, HP, IM, Paraffin & US (Split Lab: 1:00-5:00) (Review and case studies)
M, June 7	CP, HP, IM, Paraffin & US (Split Lab: 1:00-5:00)
W, June 9	Hydro. Lecture: Open Lab Review (Split Lab: 2:00-3:30 and 3:30-5:00)
M, June 14	Lab Practical I (2:00-5:00) (CP, HP, IM, Paraffin, and US)
W, June 16	Traction Demo (Split Lab: 3:00-4:00 and 4:00-5:00)
M, June 21	IPC DEMO and garment measurements (all students)
W, June 23	Split lab only: Traction, ICP, Contrast Packs, Case Studies (1:00-5:00)
M, June 28	Split lab only: Traction, ICP, Contrast Packs, Case Studies (1:00-5:00)
W, June 30	Split lab only: Traction, ICP, Contrast Packs, Case Studies (1:00-5:00)
M, July 5	NO CLASS: HOLIDAY
W, July 7	FINAL REVIEW: OPEN LAB (Split Lab: 2:00-3:30 and 3:30-5:00)
July 12-16	Written and Practical Final (Comprehensive, mainly Ch. 7-9 and 18-20)

NOTE: If you need accommodations in this course because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact Disability Support Services for appropriate verification and procedure (777-3435 or on the web at <http://www.und.nodak.edu/dept/dss/index.htm>).

PT 512: Therapeutic Agents 2021 GROUP LAB SCHEDULE

MAY 24: THERMAL AGENTS: COLD, HEAT, Ultrasound LECTURE (via ZOOM) followed by IP, IM, HP, Paraffin <u>LIVE IN CLASS</u> Demos: (LAB: Groups A/B 2:30-3:45: Groups C/D 3:45-5:00)			
May 26: Split Lab	HOT PACKS/PARAFFIN	ULTRASOUND	COLD PACKS/ICE MASSAGE
1:00-2:30	Group 1A	Group 1B	Group 1C
2:30 – 3:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving
3:00 – 4:30	Group 2A	Group 2B	Group 2 C
4:30 – 5:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving
May 31 st : NO CLASS: MEMORIAL DAY			
June 2: Split Lab	HOT PACKS/PARAFFIN	ULTRASOUND	COLD PACKS/ICE MASSAGE
1:00-2:30	Group 1B	Group 1C	Group 1A
2:30 – 3:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving
3:00 – 4:30	Group 2B	Group 2C	Group 2A
4:30 – 5:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving

June 7: Split Lab	HOT PACKS/PARAFFIN	ULTRASOUND	COLD PACKS/ICE MASSAGE
1:00-2:30	Group 1C	Group 1A	Group 1B
2:30 – 3:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving
3:00 – 4:30	Group 2C	Group 2A	Group 2 B
4:30 – 5:00	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving	Teaching Cases: Non-graded problem solving
June 9: HYDROTHERAPY LECTURE (via ZOOM): ALL STUDENTS: Followed by Open lab Review (OPTIONAL) (LAB: Groups A/B 2:30-3:45: Groups C/D 3:45-5:00)			
June 11: Written Exam CLICKER REVIEW: (OPTIONAL)			
June 14: WRITTEN/PRACTICAL EXAM I			
June 16: TRACTION LECTURE via ZOOM (all students): SPLIT Lab following lecture for DEMOS (LAB: Groups A/B 2:30-3:45: Groups C/D 3:45-5:00)			
June 21: COMPRESSION LECTURE via ZOOM: Split Lab following /IPC DEMO/CUSTOM GARMENT MEASUREMENTS: (LAB: Groups A/B 2:30-3:45: Groups C/D 3:45-5:00)			
June 23: Split Lab <u>ONLY</u>	TRACTION: LUMBAR/CERVICAL	CONTRAST PACKS/IPC/HOME TRACTION UNIT	CASE STUDIES
100 – 3:00	Group 1A	Group 1B	Group 1C
3:00 – 5:00	Group 2A	Group 2B	Group 2C
June 28: Split Lab <u>ONLY</u>	TRACTION: LUMBAR/CERVICAL	CONTRAST PACKS/IPC/HOME TRACTION UNIT	CASE STUDIES

100 – 3:00	Group 1B	Group 1C	Group 1A
3:00 – 5:00	Group 2B	Group 2C	Group 2A
June 30: Split Lab <u>ONLY</u>	TRACTION: LUMBAR/CERVICAL	CONTRAST PACKS/IPC/HOME TRACTION UNIT	CASE STUDIES
100 – 3:00	Group 1C	Group 1A	Group 1B
3:00 – 5:00	Group 2C	Group 2A	Group 2B
July 5th : NO CLASS: 4th of July Holiday			
July 7: Written Exam II 12:45-2:00: Split Lab 2:00-5:00	Written Exam Material: Hydrotherapy and Compression OPEN LAB REVIEW: OPTIONAL: Groups A/B: 2:00-3:30: Groups C/D: 3:30-5:00 TRACTION: LUMBAR/CERVICAL/HOME TRACTION UNIT		
July 9: Final Written CLICKER Review: TBD: OPTIONAL			
July 12-16:	Written and Practical Final		