

Course Syllabus

COURSE: PTHA 1431 Biophysical Agents (BPA) (3:3:3)
SEMESTER: Fall
LAB TIMES: Monday & Wednesday 9AM – 2PM
INSTRUCTOR: Kevin Beagh, PT, MPT
OFFICE: Levelland Campus, Allied Health Building, AH103F
OFFICE HOURS: BY APPOINTMENT on Tuesday and Thursday 8A-4P
OFFICE PHONE: 806-716-2518
E-MAIL: kbeagh@southplainscollege.edu
Facebook: <https://www.facebook.com/South-Plains-College-PTA-270314052992426/?ref=bookmarks>

“South Plains College improves each student’s life.”

GENERAL COURSE INFORMATION

It is the responsibility of each student to be familiar with the content and requirements listed in the course syllabus.

COURSE DESCRIPTION

This course includes a detailed study of the knowledge and skills necessary to reach competence in using biophysical agents in the provision of physical therapy treatment.

COURSE PREREQUISITES

PTHA 1301, PTHA 1405, PTHA 1413, PTHA 1321, PTHA 2409

STUDENT LEARNING OUTCOMES

At the completion of the semester students will:
1. Appropriately apply the principles of cold packs. a. Synthesize the indications, contraindications, precautions, and physiological response related to cold packs. b. Demonstrate safe and competent application of cold packs to meet requirements outlined in the skill check and lab exam.
2. Appropriately apply the principles of ice massage. a. Synthesize the indications, contraindications, precautions, and physiological response related to ice massage. b. Demonstrate safe and competent application of ice massage to meet requirements outlined in the skill check and lab exam.
3. Appropriately apply the principles of hot packs. a. Synthesize the indications, contraindications, precautions, and physiological response related to hot packs. b. Demonstrate safe and competent application of hot packs to meet requirements outlined in the skill check and lab exam.
4. Appropriately apply the principles of paraffin baths. a. Synthesize the indications, contraindications, precautions, and physiological response related to paraffin baths. b. Demonstrate safe and competent application of paraffin to meet requirements outlined in the skill check and lab exam.
5. Appropriately apply the principles of soft tissue mobilization. a. Synthesize the indications, contraindications, precautions, and physiological response related to soft tissue mobilization techniques such as effleurage, petrissage, cross friction, trigger point release, myofascial release, and scar tissue mobilization techniques. b. Demonstrate safe and competent application of soft tissue mobilization techniques to meet requirements outlined in the skill check and lab exam.
6. Appropriately explain the principles of airway clearance techniques. a. Synthesize the indications, contraindications, precautions, and physiological response related to airway clearance techniques including tapotement and vibration. b. Explain postural drainage positions specific to each lobe of both lungs. c. Explain breathing strategies (such as maximum ventilation and expiration, breathing patterns during exercise, and pursed lip breathing) as related to mock patient case.

STUDENT LEARNING OUTCOMES, cont.

<p>7. Appropriately apply the principles of traction.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to manual cervical traction, mechanical cervical traction, and mechanical lumbar traction. Demonstrate safe and competent application of traction techniques to meet requirements outlined in the skill check and lab exam.
<p>8. Appropriately explain the principles of intermittent compression.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to intermittent compression.
<p>9. Appropriately apply the principles of ultrasound.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to ultrasound. Demonstrate safe and competent application of ultrasound to meet requirements outlined in the skill check and lab exam.
<p>10. Appropriately explain the principles of phonophoresis.</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to phonophoresis.
<p>11. Appropriately apply the principles of contrast bath.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to contrast bath. Demonstrate safe and competent application of contrast bath to meet requirements outlined in the skill check and lab exam.
<p>12. Appropriately apply the principles of the safe use of hydrotherapy.</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to hydrotherapy.
<p>13. Appropriately apply the principles of electrotherapy.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to electrotherapy techniques such as IFC, Premodulation, TENS, Combo, NMES, Russian, Biphasic, Iontophoresis, HVES, and Biofeedback. Demonstrate safe and competent application of electrotherapy techniques to meet requirements outlined in the skill check and lab exam.
<p>14. Appropriately explain the principles of infrared.</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to infrared. Explain the application of infrared.
<p>15. Appropriately explain the principles of ultraviolet.</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to ultraviolet. Explain the application of ultraviolet light.
<p>16. Appropriately explain the principles of diathermy.</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to diathermy. Explain the application of diathermy.
<p>17. Appropriately explain the principles of low-level LASER therapy.</p> <ol style="list-style-type: none"> Synthesize the indications, contraindications, precautions, and physiological response related to low-level LASER therapy. Demonstrate safe and competent application of low-level LASER therapy to meet requirements outlined in the skill check and lab exam.
<p>18. Appropriately explain the principles of deep heat LASER therapy</p> <ol style="list-style-type: none"> Explain the indications, contraindications, precautions, and physiological response related to low-level LASER therapy.
<p>19. Select, justify, and competently perform appropriate data collection techniques to determine the patient's response(s) to the intervention applied as related to the biophysical agents listed above.</p> <ol style="list-style-type: none"> Appropriately implement cognition and attention assessments related to safe use of modalities. Appropriately implement physiological/functional assessments. Document appropriately. Identify equipment and resources necessary for discharge.
<p>20. Demonstrate generic abilities related to course content. (<i>Generic Abilities adapted from the Physical Therapy Program, University of Wisconsin-Madison, May et al. Journal of Physical Therapy Education, 9:1, Spring, 1995.</i>)</p> <ol style="list-style-type: none"> <i>Commitment to Learning</i> – Demonstrate the ability to self-assess, self-correct, and self-direct. Identify needs and sources of learning. Seek new knowledge and understanding. <i>Use of Constructive Feedback</i> – Demonstrate the ability to identify sources and seek out feedback and to effectively use and provide feedback for improving personal interaction.
<p>21. Use a SOAP note format to document interventions provided and data gathered related to those interventions.</p>
<p>22. Describe basic concepts related to the APTA <i>Guide to Physical Therapist Practice</i>.</p> <ol style="list-style-type: none"> Integrate basic concepts presented in the APTA <i>Guide to Physical Therapist Practice</i> related to course content. Identify the parameters of the scope of practice of the PTA related to course content.

COURSE OBJECTIVES

At the completion of this course the student will have the cognitive, psychomotor, and affective competencies to:

1. Demonstrate safe and competent application of the following biophysical agents :
 - a. Thermal agents (cold packs, ice massage, hot packs, paraffin bath, contrast bath)
 - b. Soft tissue mobilization techniques (effleurage, petrissage, tapotement, trigger point release, transverse friction massage, myofascial release techniques, retrograde massage, scar tissue mobilization)
 - c. Traction (manual (cervical), mechanical (cervical and lumbar))
 - d. Ultrasound
 - e. Electrotherapy (iontophoresis, neuromuscular electrical stimulation, transcutaneous electrical nerve stimulation, interferential current)
 - f. Low-level LASER
2. Design and justify a treatment session based on case scenarios that includes appropriate biophysical agent(s) (including those listed above, as well as airway clearance techniques, compression (intermittent pneumatic compression and cold compression) phonophoresis, hydrotherapy, infrared, ultraviolet, diathermy, deep heat LASER)
3. Select, justify, and competently perform appropriate data collection techniques to determine the patient's response(s) to the intervention applied (as related to biophysical agents listed above).
4. Demonstrate generic abilities related to course content. (Generic Abilities adapted from the Physical Therapy Program, University of Wisconsin-Madison, May et al. Journal of Physical Therapy Education, 9:1, Spring, 1995.)
 - a. Commitment to Learning – Demonstrate the ability to self-assess, self-correct, and self-direct. Identify needs and sources of learning. Seek new knowledge and understanding.
 - b. Use of Constructive Feedback – Demonstrate the ability to identify sources and seek out feedback and to effectively use and provide feedback for improving personal interaction.
5. Based on case scenarios indicating the need for various biophysical agents, integrate the following basic concepts presented in the APTA Guide to Physical Therapist Practice:
 - a. Identify and perform applicable physical therapy tests and measures
 - b. Understand applicable clinical practice guidelines
 - c. Understand applicable intervention goals
 - d. Infer and perform applicable education and procedural intervention

EVALUATION METHODS

Computer-based exams, video-recorded lab exams, lab skills check-offs, quizzes, and other projects as assigned.

ACADEMIC INTEGRITY

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

Cheating - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as final examinations, to daily reports and to term papers.

Plagiarism - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

VERIFICATION OF WORKPLACE COMPETENCIES

Physical Therapist Assistants are expected to know how to read a physical therapy evaluation and plan of care and provide treatment (including the use of biophysical agents) based on their training.

BLACKBOARD

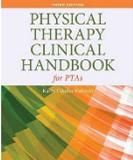
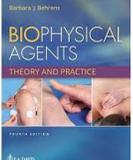
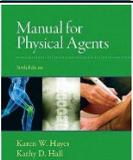
Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

FACEBOOK (<https://www.facebook.com/South-Plains-College-PTA-270314052992426/?ref=bookmarks>)

The PTA Program has a Facebook page (link indicated above). In addition to the South Plains College website, this Facebook page may be used to keep students up-to-date on program activities, weather delays, South Plains College announcements and will help with program recruitment. "Liking" the South Plains College PTA Program Facebook page is not mandatory, nor are personal Facebook accounts, in order to access this page.

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

Title	Author(s)	Publisher	ISBN
Physical Therapy Clinical Handbook for PTA (3 rd Ed.) 	Kulinski	Jones & Bartlett	9781284105568
Biophysical Agents : Theory and Practice (4 th Ed.) (primary text) 	Behrens/Beinert	FA Davis	9780803676671
Manual for Physical Agents (optional) 	Hayes/Hall	Pearson	9780136072157

ADDITIONAL CLASSROOM ITEMS

Students should come to class prepared with note-taking items (pens, pencils, spiral notebook, computer, etc.). An Internet-enabled device will be useful for accessing web-based resources, skills check-offs, etc.

ATTENDANCE POLICY (*READ CAREFULLY)

Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined below.

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in this course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the

student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

(http://catalog.southplainscollege.edu/content.php?catoid=47&navoid=1229#Class_Attendance)

Due to the importance of the patient care information being taught, the instructor of this course defines excessive absences as missing a third class day (or having equivalent tardies) in a course section. A student who meets this criteria will be administratively dropped from the course by the instructor.

- Tardies: (Definition): arriving any time after the class has started or not returning from an approved break after class has started.
- Three tardies will be considered missing one class day and counted as such.
- Work schedule is not an excuse for missing class.
- Any exceptions to this policy must be discussed on an individual basis with the course instructor and the PTA Program Director. (i.e. – student hospitalization, immediate family member death, etc.)

LAB PARTICIPATION POLICY

Lab sessions are intended to provide time for **actual practice** of techniques - a majority of time spent in lab should be **performing** skills (not talking about them, or looking at information about them). It is not appropriate to use lab sessions to review material or read/look up information - you should use lab time only to do things that you cannot do outside of lab.

Open Lab Practice : You will be assigned open lab practice requirements based on your skills check-offs performance, to be performed outside of and in addition to scheduled lab sessions, through development of a learning contract. You will log the time spent **performing** open lab practice to document fulfillment of this requirement.

ASSIGNMENT POLICY

All assignments must be completed by the assigned due date. Late and/or incomplete assignments will not be accepted and a grade of zero will be recorded. Quizzes will be administered to determine student's preparedness to participate in lab. The student will be permitted to join the lab after completing the pertinent viewing quiz. An absence/tardy will be recorded if this requirement results in an absence or late arrival. Assignments, quizzes, exams, and skills check-offs that are missed due to an unexcused absence may not be made up. See the instructor for more specific information.

COMPUTER USAGE

As computer technology in the field of health occupations continues to become more popular, computers will be used in this course for several assignments. All students have access to computers and printers on the South Plains College campus. Students will be expected to utilize computers to access assignments and classroom resources. All registered students are supplied with a working email account from South Plains College. In order to take exams, students must have their username and password.

ALL STUDENTS ARE EXPECTED TO KNOW THEIR SPC STUDENT USERNAME AND PASSWORD.

COMPUTER LAB USAGE

The computer lab(s) on any campus may be used by students during scheduled open hours or as assigned by an instructor. Printer paper will not be provided for students to print materials but students may seek assistance from faculty or staff to request lab paper from the college if needed. Lack of computer lab paper is not an excuse for not having homework assignments, skills lab sheets, or any other required documents. Students should come prepared for class.

EXAMS

The majority of student 'written' exams will be administered via computer to prepare them for the NPTE-PTA. Students should practice proper spelling and grammar when answering a written exam.

Additionally, many exam questions will be constructed in the same manner as NPTE-PTA questions, allowing students to prepare for that testing format.

- Students are required to earn a 75% or higher lecture exam average.
- If a student fails a lab exam (earning below a 75% and/or having one or more critical safety violations), the student may retest to earn no higher than a 75%.
- Students are required to earn a 75% or higher on each lab exam.
- Lab exams are administered in the lab with body cams. Students are expected to conduct their lab exam within the scheduled requirements.
- Students are expected to begin exams on time and to complete the exams within the time frame allowed.

LAB EXAMS

Preparation : All lab skills check-offs from units to be tested must be completed prior to participation in lab exams. Performance Improvement assignment must be completed prior to participation in lab exams.

Lab Exam Procedure : The Midterm Lab Exam will cover material presented in this class (PTHA 1431). The Final Lab Exam will cover all material presented in this class (PTHA 1431) and Rehabilitation Techniques (PTHA 2435). You will prepare, record (using supplied body camera), perform, and document a treatment session or sessions in a simulated patient treatment environment based on given patient scenario(s). You will also serve as a patient(s) for a testing classmate(s), and will be graded on your ability to appropriately mimic the expected physical, cognitive, communication, and emotional characteristics indicated by the given patient scenario(s).

Lab Exam Grading : Your grade will be determined by video analysis and analysis of your submitted preparation and documentation - this will be recorded on the SPC PTA Program Lab Exam grading rubric. One retake opportunity will be offered for an initial failing effort (from critical safety incident(s) and/or from an overall score of less than 75%) - a successful retake will result in a maximum score of a 75%.

GRADING POLICY

A minimum of 75% on all exams and assignments is required to receive a passing grade for that exam or assignment. Students must earn an overall grade of 75% or better for each course section to pass that section. Students who fall below this requirement will not be allowed to continue in the PTA Program.

Final semester grades will be based on the following:

Professionalism	10%
Quizzes	20%
Lab Exams	35%
Lecture Exams	35%

Grading Scale: 90-100	A
80-89	B
75-79	C
74 or below	F

Midterm Performance : A student who has an overall average below 77% will contact the course instructor to arrange a meeting to develop a learning contract, which will outline the student's academic issues, interventions to address these issues, and assessment of the student's participation/completion of these interventions. This is not a disciplinary action, but an individualized plan to improve the student's performance.

Lab Exams : An "INCOMPLETE" will be given for failure to complete assigned skills check-offs, failure to complete required lab exam preparation, and/or failure to complete lab exam retake opportunities. Students who receive an "INCOMPLETE" for this course will not be allowed to continue in the PTA program.

Skills Check-Offs Verification : All course skills check-offs must be completed and verified by the end of the semester.

STUDENT CONDUCT POLICIES

SPECIAL REQUIREMENTS (*Read Carefully)

- Students must complete the Acknowledgment Quiz found in the “Start Here!” folder on Blackboard to indicate that the student has read and understands the content of syllabus, topics outline, assignment calendar, PTA Program and Clinical Experience handbooks, grievance policy, and appeals process. **This is due by the end of the day on Sunday of Week 1.**
- **Cell Phones/Tablets/Computers** – Internet-enabled devices should ONLY be used for classroom purposes while the student is in class. It is expected that the student will excuse him- or herself, and conduct personal business (including phone calls, text messaging, social media usage, instant messaging, chatting, etc.) outside of the classroom. Devices are expected to be silenced during class/lab times. If a phone sounds during class/lab or a student is found to be conducting non-class/lab-related activities, the student will be asked to leave class/lab and receive one unexcused absence for the first incident. Students are not allowed to have electronic devices (cell phones, smart watches, etc.) on their person during exams.
- **Class Dress Code** – Students are expected to follow the dress code as stated in the PTA student Handbook. You will need appropriate attire for lab : to afford professional and modest access to body parts being addressed.
WHAT NOT TO WEAR : torn jeans, low cut blouses, short shorts, T-shirts with offensive writing and/or logos.

COMMUNICATION POLICY

Electronic communication between instructor and students in this course will utilize each student’s indicated preferred email address, and may also utilize text messaging. Students are encouraged to check email on a daily basis, and respond to emails within 24 hours. Students will have access to assignments, web-links, handouts, and other vital material which will be delivered via Blackboard. Any student having difficulty accessing Blackboard or their email should immediately contact their instructor for direction. The instructor will work with any student to ensure the student has access to a computer on campus and can obtain the needed class content that is located on Blackboard.

STATE-REQUIRED SYLLABUS STATEMENTS REGARDING COLLEGE POLICIES

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title V Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit: <https://www.southplainscollege.edu/syllabusstatements/>

STUDENT CONDUCT

Rules and regulations relating to the students at South Plains College are made with the view of protecting the best interests of the individual, the general welfare of the entire student body and the educational objectives of the college. As in any segment of society, a college community must be guided by standards that are stringent enough to prevent disorder, yet moderate enough to provide an atmosphere conducive to intellectual and personal development. A high standard of conduct is expected of all students. When a student enrolls at South Plains College, it is assumed that the student accepts the obligations of performance and behavior imposed by the college relevant to its lawful missions, processes and functions. Obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense guide the actions of each member of the college community both in and out of the classroom. Students are subject to federal, state and local laws, as well as South Plains College rules and regulations. A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens. Students are subject to such reasonable disciplinary action as the administration of the college may consider appropriate, including suspension and expulsion in appropriate cases for breach of federal, state or local laws, or college rules and regulations. This principle extends to conduct off-campus which is likely to have adverse effects on the college or on the educational process which identifies the offender as an unfit associate for fellow students.

Students are expected to follow the ethics and rules of professional conduct as outlined in the student handbook. Unprofessional conduct on the part of a student as outlined in the student handbook results in dismissal from the PTA program.

Any student who fails to perform according to expected standards may be asked to withdraw.

Rules and regulations regarding student conduct appear in the current Student Guide.

COURSE DISCLAIMER

You may not apply what you are learning to the general public. You are a student PTA and are learning physical therapy techniques. You will be practicing these skills on each other when you are in lab under the course instructor's supervision. If you are presently working in a clinic you cannot practice these skills on patients. Once you have passed the class, you still cannot practice the acquired skills in a clinic. You will only be permitted to apply these skills to the general public under a clinical instructor's supervision once you begin your clinical internships.

Additionally, enrollment in this course does not guarantee a passing grade, successful completion of the PTA curriculum, or passing NPTE-PTA and resultant licensure. Your successful completion of all courses, passing NPTE-PTA, and completion of State Board of PT requirements is necessary to work as a PTA.

ADMINISTRATIVE POLICIES

DROPPING A CLASS

Students should submit a [Student Initiated Drop Form](#) online. **Students will not be required to obtain an instructor signature to drop**, however, we do encourage students to communicate with instructors or advisors prior to dropping a course when they are able.

WITHDRAWING FROM ALL CLASSES

If a student wishes to withdraw from all courses, they should initiate that process with the Advising Office. They can schedule an appointment with an advisor by visiting <http://www.southplainscollege.edu/admission-aid/advising/spcadvisors.php> or by calling 806-716-2366.

FOUNDATION SKILLS

BASIC SKILLS—Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks

F-1 **READING**—locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 **WRITING**—communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 **ARITHMETIC**—performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 **MATHEMATICS**—approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 **LISTENING**—receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 **SPEAKING**—organizes ideas and communicates orally.

THINKING SKILLS—Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason

F-7 **CREATIVE THINKING**—generates new ideas.

F-8 **DECISION-MAKING**—specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 **PROBLEM SOLVING**—recognizes problems, devises and implements plan of action.

F-10 **SEEING THINGS IN THE MIND'S EYE**—organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 **KNOWING HOW TO LEARN**—uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 **REASONING**—discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

PERSONAL QUALITIES—Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty

F-13 **RESPONSIBILITY**—exerts a high level of effort and perseveres towards goal attainment.

F-14 **SELF-ESTEEM**—believes in own self-worth and maintains a positive view of self.

F-15 **SOCIABILITY**—demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.

F-16 **SELF-MANAGEMENT**—assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 **INTEGRITY/HONESTY**—chooses ethical courses of action.

The Secretary's Commission on Achieving Necessary Skills (SCANS) COMPETENCIES

RESOURCES

C-1 **TIME** - Selects goal-relevant activities, ranks them, allocates time, prepares and follows schedules.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

INFORMATION

C-5 **ACQUIRES AND EVALUATES INFORMATION**

C-6 **ORGANIZES AND MAINTAINS INFORMATION**

C-7 **INTERPRETS AND COMMUNICATES INFORMATION**

C-8 **USES COMPUTERS TO PROCESS INFORMATION**

INTERPERSONAL

C-9 **PARTICIPATES AS A MEMBER OF A TEAM** - contributes to group effort.

C-10 **TEACHES OTHERS**

C-11 **SERVES CLIENTS/CUSTOMERS**—works to satisfy customer's expectations.

C-12 **EXERCISES LEADERSHIP**—communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 **NEGOTIATES**-works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 **WORKS WITH CULTURAL DIVERSITY**—works well with men and women from diverse backgrounds.

SYSTEMS – Understands Complex Interrelationships

C-15 **UNDERSTANDS SYSTEMS**—knows how social, organizational, and technological systems work and operates effectively with them.

C-16 **MONITORS AND CORRECTS PERFORMANCE**—distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 **IMPROVES OR DESIGNS SYSTEMS**—suggests modifications to existing systems and develops new or alternative systems to improve performance.

TECHNOLOGY

C-18 **SELECTS TECHNOLOGY**—chooses procedures, tools, or equipment, including computers and related technologies.

C-19 **APPLIES TECHNOLOGY TO TASK**—understands overall intent and proper procedures for setup and operation of equipment.

C-20 **MAINTAINS AND TROUBLESHOOTS TECHNOLOGY**—prevents, identifies, or solves problems with equipment, including computers and other technologies.

COURSE OUTLINE AND CALENDARS

WEEK	DATE		TOPICS	READINGS	QUIZZES
WEEKS 1-3	Online Prep during Clinical I	Mon. Aug. 28 th to Fri. Sept. 15 th	EBP & CDM	Chapters 1 & 17 <u>CDM</u> Ch. 1 (from PTHA 1301)	Acknowledgement Quiz DUE Sunday, September 3rd by 11:59P
			Tissue Response	Chapters 2 & 15	
			Tissue Repair	Chapter 2 & 3 <u>Patho</u> Chapter 7 <u>PTCH</u> p. 106	
			Pertinent Assessments	Chapter 3	
WEEK 4	Monday Sept. 18 th (9A-2P)	9A : Introduction to PTHA 1431 10A : Assessment Lab 1P : Exam 1 Day 1	PTHA 1431 Course Syllabus		
	Wednesday Sept. 20 th (9A-2P)	9A : Exam 1 Day 2 12P : Guest Lecturer Spencer McCombs (Pain and Emotion) 1P : Guest Lecturer John Cole (Pain in the Brain)			
WEEK 5	Monday Sept. 25 th (9A-2P)	Thermal Agents (Superficial Heat & Cold Modalities) Day 1	<u>Thermal Agents</u> Chapter 4 <u>PTCH</u> p.61, 63, 118, 120, 121	Reading Quiz 1 (Chapter 4) DUE Sunday, Sept. 24th by 11:59P Viewing Quiz 1 (Thermal Agents) DUE Sunday, Sept. 24th by 11:59P	
	Wednesday Sept. 27 th (9A-2P)	Thermal Agents Day 2 : Skills Check-Off			
WEEK 6	Monday Oct. 2 nd (9A-2P)	Soft Tissue Management (Traction) Day 1	Chapter 7 <u>PTCH</u> p.64, 125	Reading Quiz 2 (Chapter 7) DUE Sunday, Oct. 1st by 11:59P Viewing Quiz 2 (Traction) DUE Sunday, Oct. 1st by 11:59P	
	Wednesday Oct. 4 th (9A-2P)	Soft Tissue Management (Traction) Day 2:Skills Check-Off			
WEEK 7	Monday Oct. 9 th (9A-2P)	Soft Tissue Management (Manual Therapy) Day 1 with guest lab instructors : 9A-12P : Brian Smith (IASTM), John Cole (TrP, TFM), Chris Morgan (joint mob.s) 12P-1P : Spencer McCombs (MFR), Clarice Long (MFR, scar care/dry needling)	Chapter 9 <u>PTCH</u> p.63, 122, 128	Reading Quiz 3 (Chapter 9) DUE Sunday, Oct. 8th by 11:59P Viewing Quiz 3 (Massage) DUE Sunday, Oct. 8th by 11:59P	
	Wednesday Oct. 11 th (9A-2P)	Soft Tissue Management (Manual Therapy) Day 2:Skills Check-Off then enrichment with guest lab instructors : Brian, John (shld.), Mackenzie Bynum (11A-11:45A) (cupping, ?)			
WEEK 8	Monday Oct. 16 th (9A-2P)	Thermal Agents & Compression (GameReadys, IPC, Contrast Bath) Day 1 Only Mock Lab Exam Exam 2 Day 1 12P-3P	<u>Edema Management</u> Chapter 8 <u>PTCH</u> p.63, 122 <u>Hydrotherapy</u> Chapter 6 <u>PTCH</u> p.61, 62, 118, 121	Reading Quiz 4 (Chapter 8) DUE Sunday, Oct. 15th by 11:59P Reading Quiz 5 (Chapter 6) DUE Sunday, Oct. 15th by 11:59P Viewing Quiz 4 (Compression) DUE Sunday, Oct. 15th by 11:59P Performance Improvement (Midterm) DUE Monday, Oct. 16th by 11:59P	
	Wednesday Oct. 18 th (9A-2P)	9A : Exam 2 Day 2 11A : Midterm Lab Exam (BPA only)			

WEEK	DATE	TOPICS	READING	QUIZZES
WEEK 9	Monday Oct. 23 rd (9A-2P)	Therapeutic Ultrasound Day 1	Chapter 5 <u>PTCH</u> p.62, 119	Reading Quiz 6 (Chapter 5) DUE Sunday, October 22nd by 11:59P Viewing Quiz 5 (Ultrasound) DUE Sunday, October 22nd by 11:59P
	Wednesday Oct. 25 th (9A-2P)	Therapeutic Ultrasound Day 2 (Skills Check-Off)		
WEEK 10	Monday Oct. 30 th (9A-2P)	EMR (Diathermy, UV, LASER) & Electrical Stimulation (for Tissue Repair) Day 1	<u>EMR</u> Chapter 10 <u>PTCH</u> p.62, 119, 120 <u>ESTR</u> Chapters 11, 12 & 14 <u>PTCH</u> p.63, 64, 123, 124	Reading Quiz 7 (Chapter 10) DUE Sunday, Oct. 29th by 11:59P Reading Quiz 8 (Chapters 11, 12 & 14) DUE Sunday, Oct. 29th by 11:59P Viewing Quiz 6 (EMR) DUE Sunday, Oct. 29th by 11:59P Viewing Quiz 7 (Electrical Stimulation 1) DUE Sunday, Oct. 29th by 11:59P
	Wednesday Nov. 1 st (9A-2P)	EMR&ESTR Day 2:Skills Check-Off		
WEEK 11	Monday Nov. 6 th (9A-2P)	Elec. Stim. (for Muscles) Day 1 • NMES/FES • Biofeedback	Chapters 13 <u>PTCH</u> p.63, 123, 126	Reading Quiz 9 (Chapter 13) DUE Sunday, November 5th by 11:59P Viewing Quiz 8 (Electrical Stimulation 2) DUE Sunday, November 5th by 11:59P
	Wednesday Nov. 8 th (9A-2P)	Electrical Stimulation (for Muscles) Day 2 : Skills Check-Off NMES Practice/Race		
WEEK 12	Monday Nov. 13 th (9A-2P)	Electrical Stim. (for Pain) Day 1 • TENS • IFC	Chapters 15 & 16 <u>PTCH</u> p.63, 64, 125	Reading Quiz 10 (Chapters 15 & 16) DUE Sunday, November 12th by 11:59P Viewing Quiz 9 (Electrical Stimulation 3) DUE Sunday, November 12th by 11:59P
	Wednesday Nov. 15 th (9A-3P)	Electrical Stimulation (for Pain) Day 2 : Skills Check-Off Exam 3 Day 1 2P-3P		
WEEK 13	Monday Nov. 20 th (9A-2P)	Exam 3 Day 2 9A-10A Final Lab Exam and Written Exam Review – Receive Roles		
	Wednesday Nov. 22 nd	THANKSGIVING HOLIDAY		
WEEK 14	Monday Nov. 27 th (9A-2P)	Final Lab Exam Prep • Record and upload 2 PI videos • Scenario-Based BPA Tx Planning and Performance		Performance Improvement (Final) • 2 PI submissions due 11/27 11:59P • 1 st PI review (1) due 11/30 by 11:59P • 2 nd PI reviews (5) due 12/2 11:59P • Review feedback on both your PIs by 12/3 11:59P
	Wednesday Nov. 29 th (9A-2P)	Final Lab Exam Prep • Review Outline • CDM Practice Cases • other review activities		
WEEK 15	Monday Dec. 4 th (9A-2P)	Final Lab Exam 9A-3P		
	Wednesday Dec. 6 th	NO CLASS		
	Monday Dec. 11 th	Final Written Exam 9A-11A		Clinical Acknowledgements DUE Sunday, December 10th by 11:59P

Class Assignments Calendar

FIRST 8 WEEKS

Title	Due Date	Time Due
Acknowledgement Quiz	Sun., Sept. 3 rd	11:59P
Exam 1 Day 1	Mon., Sept. 18th	1P-2P
Exam 1 Day 2	Wed., Sept. 20th	9A-10A
Reading Quiz 1 (Ch. 4 – Thermal Agents)	Sun., Sept. 24 th	11:59P
Viewing Quiz 1 (Thermal Agents)	Sun., Sept. 24 th	11:59P
Thermal Agents Lab Worksheet	Mon., Sept 25 th	11:59P
Feedback on Thermal Agents Check-Offs Feedback	Wed., Sept. 27 th	11:59P
MHP Debate	Fri., Sept. 29 th	11:59P
BPA Review of Evidence	Fri., Sept. 29 th	11:59P
Reading Quiz 2 (Ch. 7 - Traction)	Sun., Oct. 1 st	11:59P
Viewing Quiz 2 (Traction)	Sun., Oct. 1 st	11:59P
Traction Lab Worksheet	Mon., Oct. 2 nd	11:59P
Feedback on Traction Check-Offs Feedback	Wed., Oct. 4 th	11:59P
Traction Debate	Fri., Oct. 6 th	11:59P
BPA Review of Evidence	Fri., Oct. 6 th	11:59P
Reading Quiz 3 (Ch. 9 - STM)	Sun., Oct. 8 th	11:59P
Viewing Quiz 3 (Massage)	Sun., Oct. 8 th	11:59P
Soft Tissue Mobilization Lab Worksheet	Mon., Oct. 9 th	11:59P
Feedback on STM Check-Offs Feedback	Wed., Oct. 11 th	11:59P
IASTM Debate	Fri., Oct. 13 th	11:59P
BPA Review of Evidence	Fri., Oct. 13 th	11:59P
Reading Quiz 4 (Ch. 8 – Edema Mgmt.)	Sun., Oct. 15 th	11:59P
Reading Quiz 5 (Ch. 6 - Hydrotherapy)	Sun., Oct. 15 th	11:59P
Viewing Quiz 4 (Compression)	Sun., Oct. 15 th	11:59P
Compression & Contrast Bath Lab Worksheet	Mon., Oct. 16 th	11:59P
Feedback on Compression and Contrast Bath Check-Offs Feedback	Wed., Oct. 18 th	11:59P
Compression Debate	Tues., Oct. 17 th	11:59P
BPA Review of Evidence	Tues., Oct. 17 th	11:59P
Exam 2 Day 1	Mon., Oct. 16th	2P-3P
Performance Improvement (Midterm)	Mon., Oct. 16th	11:59P
Exam 2 Day 2	Wed., Oct. 18th	9A-10A
Midterm Lab Exam	Wed., Oct. 18th	11A-2P

Class Assignments Calendar

SECOND 8 WEEKS

Title	Due Date	Time Due
Reading Quiz 6 (Ch. 5 - Ultrasound)	Sun., Oct. 22 nd	11:59P
Viewing Quiz 5 (Ultrasound)	Sun., Oct. 22 nd	11:59P
Ultrasound Lab Worksheet	Mon., Oct 23 rd	11:59P
Feedback on Ultrasound Check-Offs Feedback	Wed., Oct. 25 th	11:59P
Ultrasound Debate	Fri., Oct. 27 th	11:59P
BPA Review of Evidence	Fri., Oct. 27 th	11:59P
Reading Quiz 7 (Ch. 10 - EMR)	Sun., Oct. 29 th	11:59P
Reading Quiz 8 (Ch.s 11, 12 & 14 – E-stim Principles & ESTR)	Sun., Oct. 29 th	11:59P
Viewing Quiz 6 (EMR)	Sun., Oct. 29 th	11:59P
Viewing Quiz 7 (ESTR)	Sun., Oct. 29 th	11:59P
EMR & ESTR Lab Worksheet	Mon., Oct. 30 th	11:59P
Feedback on EMR and ESTR Check-Offs Feedback	Wed., Nov. 1 st	11:59P
LASER Debate	Fri., Nov. 3 rd	11:59P
BPA Review of Evidence	Fri., Nov. 3 rd	11:59P
Reading Quiz 9 (Chapter 13 - NMES)	Sun., Nov. 5 th	11:59P
Viewing Quiz 8 (NMES)	Sun., Nov. 5 th	11:59P
NMES Lab Worksheet	Mon., Nov. 6 th	11:59P
Feedback on E-Stim for Muscles Check-Offs Feedback	Wed., Nov. 8 th	11:59P
NMES Debate	Fri., Nov. 10 th	11:59P
BPA Review of Evidence	Fri., Nov. 10 th	11:59P
Reading Quiz 10 (Chapters 15 & 16 – TENS & IFC)	Sun., Nov. 12 th	11:59P
Viewing Quiz 9 (TENS & IFC)	Sun., Nov. 12 th	11:59P
TENS Lab Worksheet	Mon., Nov. 13 th	11:59P
Exam 3 Day 1	Wed., Nov. 15th	2P-3P
Feedback on E-Stim for Pain Check-Offs Feedback	Wed., Nov. 15 th	11:59P
TENS Debate	Fri., Nov. 17 th	11:59P
BPA Review of Evidence	Fri., Nov. 17 th	11:59P
Exam 3 Day 2	Mon., Nov. 20th	9A-10A
Performance Improvement (Final)	Sun., Dec. 3rd	11:59P
Final Lab Exam	Mon. Dec. 4th	9A-3P
Final Exam	Mon., Dec. 11th	9A-11A
Clinical Acknowledgements	Sun., Dec. 10 th	11:59P