El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA	**Physical Therapist Assistant**
COURSE RUBRIC AND NUMBER	**PTHA 1431**
COURSE TITLE	**Physical Agents**
COURSE CREDIT HOURS	**4 3 4 0** **Credits Lec Lab Ext**

I. Catalog Description

Studies the biophysical principles, physiological effects, efficacy and application of physical agents and therapeutic massage. Students will also be exposed to selected techniques of massage. A grade of "C" or better is required in this course to take the next course. **Prerequisites: BIOL 2401 AND BIOL 2402 AND MATH 1314 AND PTHA 1321. (3:4). Lab fee. Professional Practice Insurance required.**

II. Course Objectives

A. Unit I. Pain Management and Draping Procedures

This unit identifies the multifaceted mechanisms underlying pain. Included in the unit are discussions on pain theories, behavioral responses to pain, and pain management. This unit also review basic draping procedures used in the clinical setting.

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

1. Discuss the difference between acute and chronic pain.
2. Discuss the principles and theories of pain management.
3. Discuss the physical, psychological and social effects of pain.
4. Identify signs and symptoms of pain. DACUM 8.1
5. Utilize appropriate draping and positioning techniques for various interventions.
6. Discuss the efficacy of different treatment approaches in the management of pain.
7. Identify the various pain scales used in the clinical setting. DACUM 8.1, 3.5
8. Student will be able to assess changes in patient level of pain using standardized pain scales and report adverse changes to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 8.1, 11.5, 3.9, 4.3

B. Unit II. Superficial Thermal Agents

This unit will expose the student to the therapeutic use of superficial heat. The student will also review the mechanisms of heat exchange as well as the physiologic effect of heat

Upon satisfactory completion of this unit, the student will be able to

1. Review the physical properties of conduction, convection and evaporation
2. Understand the importance of safety including; inspection of electrical equipment, checking equipment prior to use, storage of equipment etc... and report any signs of

equipment problems to supervising PT. DACUM 10.2, 1.4
3. Demonstrate the principles of safe practice when applying moist hot packs and paraffin wax. DACUM 1.4, 1.4, 1.8
4. Discuss the current use of Fluid therapy in the rehabilitation setting.
5. Discuss indications, contraindications, precautions and safety for using superficial heating agents that have been delegated to the PTA by the PT. DACUM 10.1, 10.3
6. Discuss the clinical decision making involved in the selection of various superficial heating modalities as an intervention. DACUM 10.3
7. Identify normal and abnormal responses to the application of heat and report changes to supervising PT. DACUM 10.1
8. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.8
9. Master clinical check-off sheets for superficial heating agents in the laboratory setting prior to entering clinic. DACUM 10.3

C. Unit III. Cryotherapy

This unit introduces the student to principles of cryotherapy. Included in this unit are the application of cold packs, ice packs, contrast bath and ice massage.

Upon satisfactory completion of this unit, the student will be able to

1. Review the principles for the use of cryotherapy.
2. Identify the various forms of cryotherapy that may be delegated for use by the PT in the clinical setting. DACUM 10.3
3. Demonstrate appropriate and safe application of cold packs, ice packs, contrast bath and ice massage in the laboratory setting. DACUM 10.3, 1.1
4. Discuss the indications, contraindications and precautions for the applications of cryotherapy. DACUM 1.1, 10.3
5. Discuss the clinical decision making involved in the selection of various cryotherapy modalities as an intervention. DACUM 10.3
6. Identify various normal and abnormal responses to the application of cyrotherapy. DACUM 10.1
7. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.5
8. Master clinical check-off sheets for cryotherapy agents in the laboratory setting prior to entering clinic. DACUM 10.3

D. Unit IV. Therapeutic Massage

This unit introduces the student to principles and practice of therapeutic massage and management of edema using massage and compression therapies. Upon completion of this unit the student will be able to

Upon satisfactory completion of this unit, the student will be able to

1. Differentiate among the various massage techniques used in the clinical setting including effleurage, petrissage, tapotement, friction. DACUM 9.2, 9.5, 9.1,
2. Demonstrate the appropriate application of therapeutic massage using different techniques. DACUM 9.2
3. Discuss the indications, contraindications and precautions for massage. DACUM 1.1
4. Discuss the physiological effects of therapeutic massage.
5. Review the lymphatic system and discuss the use of massage for the management of edema (retrograde massage)

6. Assess edema by measuring area using various techniques including tape measure and volumetric devices. DACUM 8.5, 8.12
7. Discuss various other devices available for the management of edema in the clinical setting including: compression pumps, compression garments, compression stockings, ace wraps etc... DACUM 12.10
8. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.5
9. Given a clinical scenario demonstrate the application of compression therapy techniques including: compression bandaging and compression garments. DACUM 12.10
10. Master clinical check-off sheets for massage and compression therapies in the laboratory setting prior to entering clinic. DACUM 12.10, 9.2

E. Unit V. Ultrasound

This unit introduces the student to principles of sound physics, and physical therapy procedures utilizing sound as a treatment medium. Included in this unit are the application of ultrasound and phonophoresis.

Upon satisfactory completion of this unit, the student will be able to

1. Review the principles of physics as they apply to sound .DACUM 10.4
2. Define the following terms sound propagation, beam nonuniformity ratio (BNR), peak intensity, pulse ratio, effective radiating area (ERA), stable and unstable cavitation, acoustic streaming (micro streaming)
3. Contrast the differences between: absorption and penetration, reflection and refraction.
4. Discuss the different parameters available for use with ultrasound including: frequency, duty cycle (factor) intensity used with ultrasound and the indications for each.
5. Identify various topical agents available for the application of phonophoresis DACUM 10.7
6. List the most common topical agents currently being used and their relative. percentage of transmission.
7. Demonstrate appropriate and safe application of ultrasound and phonophoresis. DACUM 10.7
8. Discuss the indications, contraindications and precautions for the applications of ultrasound and phonophoresis. DACUM 10.7, 10.1, 1.1
9. Discuss the clinical decision making in the determination of the appropriate treatment parameters for ultrasound. DACUM 10.4
10. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.5
11. Master clinical check-off sheets for ultrasound in the laboratory setting prior to entering clinic. DACUM 10.4

F. Unit VI. Traction

This unit introduces the student to principles and theory of mechanical cervical and lumbar traction. This unit will introduce the student to the current use of mechanical traction in the physical therapy field.

Upon satisfactory completion of this unit, the student will be able to

1. Discuss the principles and use of mechanical cervical and lumbar traction. DACUM 10.6
2. Identify the various components of a mechanical traction unit. DACUM 10.6
3. Demonstrate appropriate and safe application of mechanical cervical, lumbar and

portable home traction units. DACUM 10.6, 1.1

4. Identify the various parameters used in the application of cervical and lumbar traction for various conditions. DACUM 10.6, 1.1
5. Discuss the indications, contraindications and safety precautions for the applications of traction. DACUM 1.1
6. Discuss the clinical decision making for the use of other modalities with traction.
7. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.5
8. Master clinical check-off sheets for traction devices in the laboratory setting prior to entering clinic. DACUM 10.6
9. Discuss and demonstrate the application of manual traction techniques. DACUM 9.7

G. Unit VII. Electrotherapeutic Modalities

The unit introduces the student to the principles of bio-electrical physics as they apply to physical therapy procedures.

Upon satisfactory completion of this unit, the student will be able to

1. Review the principles and theory of bio-electrical modalities. DACUM 10.5
2. Identify the various components of electrical stimulation/biofeedback units and the use of each: FES, NMES, IF, IONTO, HVPC, EMS, biofeedback and TENS. DACUM 10.5
3. Demonstrate appropriate and safe application of FES, NMES, IF, IONTO, HVPC, EMS, biofeedback and TENS. DACUM 1.1, 10.5
4. Discuss the indications, contraindications and precautions for the applications of specific electrical therapeutic modalities. DACUM 1.1, 10.5
5. Review the different wave forms as they related to the delivery of electrical stimulation.
6. Review the physiologic effects electrical stimulation has on nerve and muscle fibers.
7. Identify the chemicals used for the delivery of medication using iontophoresis. DACUM 10.7
8. Discuss the components and care of electrodes. DACUM 10.5
9. Demonstrate the appropriate placement of electrodes for various desired responses. DACUM 10.5
10. Discuss the use of electrical stimulation for the management of pain and it's analgesic effects. DACUM 10.5
11. Discuss the clinical decision making process involved in selecting the appropriate electrical stimulation device to achieve therapeutic treatment goals. DACUM 10.5
12. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM 4.3, 11.5
13. Master clinical check-off sheets for various electrical stimulation devices in the laboratory setting prior to entering clinic. DACUM 10.5, 10.7

H. Unit VIII. Hydrotherapy

This unit introduces the student to the principles of water physics, and physical therapy procedures utilizing water as a treatment medium.

Upon satisfactory completion of this unit, the student will be able to

1. Review the physical principles and properties of water.
2. Discuss indications, contraindications and benefits of hydrotherapy. DACUM 1.1
3. Discuss the use of hydrotherapy equipment: whirlpool, hubbard tank, pool and pulsavac units
4. Discuss the use of hydrotherapy in wound care.

5. Discuss the clinical decision making involved when determining the appropriateness for using hydrotherapy as a therapeutic treatment.
6. Discuss expected outcomes of interventions and assess changes in order to be able to report to the supervising PT as appropriate for PT to determine if changes in plan of care are indicated. DACUM4.3, 11.5
7. Master clinical check-off sheets for WP in the laboratory setting prior to entering clinic.

H. Unit IX. Electromagnetic Agents

This module introduces the student to the basic principles and application of electromagnetic modalities available for use in the clinical setting.

Upon satisfactory completion of this unit, the student will be able to

1. Identify the indication/contraindications for the use of electromagnetic modalities in the clinical setting. DACUM 1.1
2. Describe the various applications of electromagnetic agents available for use in the clinical setting.
3. Under the supervision of a physical therapist, discuss and describe the classifications different ranges and types of electromagnetic radiation used therapeutically in the clinical setting: infrared, ultraviolet, laser, short wave and long wave diathermy. *CAPTE 3.3.2.7 #18*
4. Discuss safety issues related to the use of electromagnetic modalities in the clinical setting.
5. When presented with a case study determine the most appropriate parameter settings based on the impairments in the Pt evaluation, modify the treatment within the POC and assess the effectiveness of the treatment and report finding to the supervising PT as appropriate. *CAPTE 3.3.2.7 #1* 6 DACUM 4.3, 11.5
6. Demonstrate competence in implementing selected components of electromagnetic agents. CAPTE 3.3.2.7.12

III. THECB Learning Outcomes (WECM)

1. Describe the biophysical principles and efficacy of physical agents.
2. Relate indications, contraindications and precautions to interventions.
3. Apply physical agents.
4. Demonstrate communication skills.

IV. Evaluation

A. Grading Policy

1. The students final grade is determined based on a percentage assigned to specific sub-categories of work. The commonly used categories of work include: 1) Examinations (written and/or practical), 2) quizzes, 3) written homework (lab activities, online work sheets), and 4) projects/community service/ instructor required observations.

2. The specific percentages assigned to the sub-categories of work are typically 80-90% for examinations, 10% for quizzes and 10% for homework and/projects. However, students are directed to *Part 1 of the Syllabus: Instructor's Course Requirements* for the specific grading criteria for each sub-category and the final grade.
3. Graded work within in each sub-category is averaged and multiplied by the percentage applied to that subcategory. Thus a student who received a 90, 85 and 45 for a

subcategory would have an average of 73.3. If that category was worth 20 percent of the final grade, then the student would receive a total of 14.6 points toward the final grade.

4. The final grade, is calculated based on 100% (100 points) and will be rounded to the nearest whole number. Example: 86.7= 87

5. Grading Scale:
The grading scale used the PTA program for all of its courses is as follows:
94-100 = A
87-93 = B
80-86 = C
73-79 = D
72 and below = F

6. Final grades:
Students who fail to complete assigned work within each of the sub-categories will receive a final grade based on the summative calculations of each sub-category.

7. Grading of late work: All course work is due on the date identified by the instructor. Late work may be accepted and or graded based on the discretion of the instructor. A student who submits assigned work late, may receive a zero for that work. This will affect the sub-category grade percentage, and may affect the final grade as well. Students are encouraged to submit assigned work on time. See Part I of the Syllabus: Instructors requirements for more details about the grading of late work.

8. The "I" grade is assigned when the student has arranged with the instructor to postpone completion of the requirements of the course. To be eligible for an "I" the student must be passing the course. Under the institutional grading policy, the awarding of any "I" grade requires a contractual agreement between the student and faculty member to establish the requirements for the student to satisfactorily complete the course. The student must submit the request in writing to the instructor stating extenuating circumstances with supporting documents. (College procedure 7.04.02.18)

9. Students who receive a grade of Incomplete in a course which is a prerequisite course for another PTHA course may not be able to register for the next PTHA course until the "I" grade is replaced by a letter grade.

B. Progression within the program

Students must receive a grade of "C" in all program courses and must remain in good academic standing with the college or its department to progress in the program. Students not meeting this criteria may be in-eligible for readmission.. Students are referred to program procedure titled *Guidelines for Progression and Readmission in the Physical Therapist Assistant,*

C. Pre-assessment/Post-assessment/ Remediation

1. Students who at midterm are identified as failing a course will be formally counseled with a remediation plan.
2. Some courses may require pre-assessment prior to enrollment in the course. Courses typically requiring pre-assessment include all Clinical/Practicum courses except for the first clinical course. See *Part I of the Syllabus : Instructor's Course Requirements* for specific information.
3. Some courses may require post-assessment at the conclusion of each course, and may be

in the form of a comprehensive practical exam. See *Part I of the Syllabus : Instructor's Course Requirements* for specific information.

D. Attendance

1. Students are expected to be prepared and present for each class/lab session.
2. Homework is due at the beginning of the class.
3. Students who are absent from class are responsible for all material.
4. Attendance will be taken for each lecture and lab class.
5. You are considered "late" after class is officially scheduled to begin.
6. Students are expected to contact the instructor prior to being absent by calling on our office phones and leaving a message or informing us in person prior to the expected absence.

E. Tardiness

1. The door will close at the beginning of class.
2. Students who are late will not be admitted to class until the first break.
3. Students who have informed the faculty, that they will be tardy, may be admitted into the classroom, at the instructors earliest convenience.

F. Writing Assignments/Homework/Projects

Students will be required to complete all assignments in order to successfully complete this course.

1. Homework is expected to be completed prior to class and presented to the instructor at the beginning of class.
2. All work is to be handed in on time and in a folder labeled with your name.
3. Late work may be accepted at the discretion of the instructor.
4. Late work may not necessarily receive full credit.

G. Exams

1. If a student must miss an exam, he/she must notify the instructor prior to the exam.
2. Failure to notify the instructor in advance that a student will be absent for the exam, **for any reason**, will result in a grade of "0" for that exam.
3. Make-up exams may be given at the discretion of the instructor. The make-up exam must be taken within the time frame stipulated by the instructor. Failure to take any make-up exam will result in a grade of "0."
4. Students who fail a unit exam will be redirected back to the particular unit or units for additional reading and homework assignments.
5. Students may not bring anything into the testing area other than a #2 pencil. Books, coats, book-bags, back-packs are to be placed neatly away from the testing area.
6. Students should take care of any personal needs prior to the beginning of the examination.
7. No cell phones or other forms of communication devices are allowed in the testing area during an examination.
8. Course Instructors are required to turn in all written exams to the PTAP Program Coordinator.

H. Practical Exams

1. Students will demonstrate competency on technical and communication skills in the lab practical.
2. Program policies applying to exams, applies to the lab practical exam.
3. Some practical exams may be scheduled out of ordinary class time and at a hospital or clinical setting. Students will be required make necessary arrangements to be at all scheduled exams. The student will be required to attend the practical exam at the set location, date and time established by the instructor. Students are expected to abide by all program policies when in situations in which they represent EPCC and the PTA program.
4. The student is judged to be competent when able to perform components of data collection and components of interventions safely, correctly, effectively, and with knowledge of indications, contraindications, precautions and expected results of the interventions.
5. Each practical exam must be passed with a minimum score of 80% in order to have successfully completed that practical.
6. Practical exams may be offered at the discretion of the instructor. Student who fail a critical safety element will not be allowed a retake.
7. There will be no make-up exams for missed practical.
8. Any missed practical will receive a zero.
9. Course Instructors are required to turn in all completed practical exams to the PTAP Program Coordinator.

I. Student readiness/Skill Check off Sheets

1. Prior to the practical exam, students may be given student readiness/skill check off sheets. These sheets are designed to assist the student in demonstrating readiness for the practical exam. These sheets can be used in a peer-to-peer situation or by the instructor.
2. All check-off sheets must be signed by the lab instructor by the set date established.
3. Program policies applying to exams, applies to the process of skills check off as well..
4 The student is judged to be competent when able to perform components of data collection and components of interventions safely, correctly, effectively, and with knowledge of indications, contraindications, precautions, and expected results of the interventions
5. Lab Instructors are required to turn in all student readiness/check off sheets to the PTAP Program Coordinator.

J. Quizzes

1. No make-up quizzes will be given.
2. Students missing a quiz will receive a "zero", unless prior arrangements have been made with the instructor.

K Presentations

1. Presentations will be done at the front of the class to an audience.
2. Students are expected to utilize appropriate media
3. All presentations will require a hard copy to the instructor and the remainder of the class.
4. Students must be professionally dressed for all formal presentations.
5. All visible tattoos must be covered.

L. Preparation for Class/lab

1. Students are expected to be prepared for class.
2. Being prepared means having completed the reading assignment covering the day's materials so that you are prepared to discuss the material or answer questions.
3. Assigned homework activities are expected to be completed.
4. Students qualify for an "unexcused absence" when they are not prepared for discussion,

are considered delinquent, or incomplete in their homework.

M. Community Participation

Participation in physical therapy events is an important part of your professional training. Attendance at GEPD district meetings, fund-raising activities, and community awareness

activities is encouraged. To assist you in translating the hours you spend performing approved community service/ activities into a grade you can use the following:

(1) Attendance at Greater El Paso District (GEPD) meetings=1 PT/meeting.
(2) Volunteering on a GEPD committee = 4 Pts
(3) Any other pre-approved volunteer work (e.g,, Presentations out of class, HCOP tours, health fairs) *Instructor approval and designation of points required.*
(4) Attendance at State or National conferences = 5 points
(5) GEPD Fun Run = 4 points

Document of attendance is required.
SPTA Club activities do not apply.
All visible tattoos must be covered when the student is representing the program both on and off campus.
Community service requirements are specified in the *Instructor's Course Requirements.*

N. Dress Code for Lab

1. Students should arrive to lab dressed in the designated shirts and shorts. In addition, women are required to wear either a halter top or sports bra. Long hair should be tied back. Nails should be trimmed very short. Avoid jewelry, only a wedding band and non-dangling earrings may be worn.
2. Students not appropriately dressed for lab will be provided with a hospital gown.

O. Journals

1. Reflective journals may be required each semester and are specified in the Instructors Part 1 specific syllabus.
2. Reflective writing should a) include your observations and reflections about how you are learning what you are learning and b) a discussion of your successes and difficulties with your learning strategies.
3. Students will be expected to keep a journal on a weekly basis throughout the course.
4. The size of paper to be used is 8"x11" and should be kept in an 80-page spiral binder.
5. Journal entries should be a minimum of once a week and should be dated.
6. One line is allowed between entries. You should use the entire line, leaving **either** the left or right margin free but not both margins.
7. Please do not use "gel" paper for your journals.
8. These journals may be in the form of weekly email, or discussion boards on Blackboard.

The content of the journal itself will not be evaluated; however, it should focus on the criteria outline above.
All entries are confidential. Journals are yours to keep at the end of the semester. The grade on the journal will be specified in the *Instructor's Course Requirements*.

P. Electronic devices

All communication devices (cell phones, I-Pads) are not permitted in the classroom. They should be placed in silent mode until class is dismissed. See the Instructors requirements (Part 1 of the syllabus) for specific instructor policies.

Q. Children in the Classroom

The college has a policy on children in the classroom. Children are not generally permitted in the classroom.

R. Informed Consent

Students who are enrolled in this class may be asked to play the part of the patient, care-giver of the patient, or other role as defined by the situation during laboratory classes, practical exams, or other classroom experiences.

S. Privacy and Confidentiality

Students are expected to ensure that the privacy of their classmates, faculty, and classroom guests is maintained at all times. Students who have access to medical or personal information that by law is to remain confidential shall be required to maintain that confidentiality unless the person who owns the information releases that confidentiality.

T. Honors Credit

If you are participating in the Honors Program and wish to do a project for Honors credit, please see the instructor. Honor's projects are negotiated between the instructor and the student; they are completed in addition to regular course work assignments; you must complete the project according to the Honors Contract; and you must receive an "A" or "B" in the course.

V. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

PTAP PROGRAM: HONESTY POLICY

"All students shall obey the law, show respect for properly constituted authority and observe correct standards of conduct." (Student Code of Conduct) Specifically, students are referred to the EPCC handbook entitled Student Code of Conduct , Section II: Student Responsibility, Subsection 5 on Academic Dishonesty **or newer versions of this document**. This handbook is available through Student Government and the Counseling Department. Additionally, students are referred to the section on "**Policies and Procedures" in the College Catalogue.** The College Catalogue is available from the Cashiers office.

To ensure instructor(s) quality education and equality to all students in the Health Occupations Programs, the following special conditions will apply during testing situations in addition to those outlined in the EPCC Student Code of Conduct:

1. The instructor(s) controls the option of seating arrangement, movement, leaving the room, and stopping an exam for violation of the honesty policy.

2. All books, papers, notebooks, and personal belongings will be placed at the front of the classroom or other designated area before entering a testing situation.

3. Any information found on, or in the immediate vicinity of, the individual during a testing situation will be grounds for termination of the testing. A grade of zero will be recorded and averaged into the final grade.

4. Any verbal or nonverbal communication between students during a testing situation will be grounds for termination of the testing. A grade of zero will be recorded and averaged into the final grade.

5. Should a student need to communicate with the instructor, he or she should remain seated and raise his/her hand.

6. **Infractions of the EPCC Student Code of Conduct may be grounds for dismissal from the program.**

Adopted by the PTAP Faculty
3/16/90
Revisions
April 17, 1996 , May 11, 1998
Approved by provost: February 16, 1999

EL PASO COMMUNITY COLLEGE
HEALTH OCCUPATIONS DIVISION

CRITERIA FOR COURSE PURSUIT

In accordance with El Paso Community College procedures on "Course Pursuit" (See current El Paso Community College Catalogue and Student Handbook), The Health Occupations Division has set the following standards to establish guidelines for determining when a student has ceased to pursue the course objectives:

1. In order to pursue the course, the faculty expect the students to attend classes and clinical as scheduled. There are ___112___ minimum number of hours of instruction required to complete the course.
2. The Student will be able to make-up __0____ hours of theory or clinical.
3. Tardiness is defined as being late to class.
4. The student must follow the standards established in the Health Occupations Student Handbook and the _PTAP_____ Program Addendum. The student is bound by the standards in this Handbook as evidenced by the return of a signed/dated acknowledgment sheet.
5. Where the student continues to pursue the course objectives but is receiving failing grades, he/she will remain eligible to complete the course, EXCEPT in instances where unsafe practice occurs (See Unsafe Practice Procedure in Health Occupations Student Handbook and PTAP Program Addendum).
6. The student must appear for examinations, presentations, or other required class activities and submit required papers, projects, and/or reports as identified in the course syllabus and calendar.
7. Failure of the student to follow the above will indicate that the student is no longer pursuing the objectives of the course and will result in faculty-initiated withdrawal.
8. Appeals: The student has the right to appeal the withdrawal in accordance with El Paso Community College grievance and reinstatement procedures (See current El Paso Community College Catalog and Student Handbook).

Revised: January 1998

My course instructor _____ has provided me with the course syllabus for PTHA 1431 part I and II. My instructor has reviewed them with me and I clearly understand the content in them. I _____ agree to all terms and conditions in the course syllabus I and II.

Student signature Date

PTHA 1431 Physical Agents

Students enrolled in this course will demonstrates competence in implementing the following selected components of interventions and/or data collection:

1. athermal agents
   a. diatheramy
2. biofeedback
3. compression therapies as it relates to edema control
4. cryotherapy
5. electrotherapeutic agents
6. hydrotherapy
7. superficial and deep thermal agents
8. traction (intermittent, positional and sustained)
9. connective tissue and therapeutic massage