



Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title – Physical Agents

Course Prefix and Number – PTHA 1531

Department – Physical Therapist Assistant

Division - AH

Course Type: (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
 Academic WCJC Core Course
 WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours # : Lecture hours# : Lab/other hours # 5:4:4

Equated Pay hours for course - 6

Course Catalog Description – Biophysical principles and application of therapeutic physical agents with specific emphasis on indications, contraindications, medical efficacy, and physiological effects.

List Lab/ Other Hours
Lab Hours 4 Lac
Clinical Hours
Practicum Hours
Other (list)

Prerequisites/Corequisites - PTHA 1413 and PTHA 1409

Approvals – the contents of this document have been reviewed and are found to be accurate.

Prepared by <i>Betty Salas</i>	Signature <i>Betty Salas</i>	Date 9-11-07
Department Head <i>Phil Carter</i>	Signature <i>Phil Carter</i>	Date 9-11-07
Division Chair <i>Leigh Ann Collins</i>	Signature <i>Lac</i>	Date 9-20-07
Vice President <i>Dr. Ty Pate</i>	Signature <i>Ty Pate</i>	Date 9-26-07



I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non lecture instruction):

Lecture and Lab includes the following topics:

1. Pain and Inflammation
2. Physical Agents and Therapeutic Treatment Approaches
3. Heat and Cold Modalities
4. Therapeutic Ultrasound
5. Therapeutic Use of Light
6. Hydrotherapy
7. Passive Motion devices for Soft Tissue Management
8. Edema Management
9. Therapeutic Massage
10. Foundation of Electrical Stimulation
11. Physiologic Basis of Electrical Stimulation
12. Neuromuscular Applications for Electrical Stimulation
13. Iontophoresis and Phonophoresis
14. Pain Management with Electrical Stimulation
15. Electrical Stimulation Devices and Equipment
16. Integration of Physical Agents

II. Course Learning Outcomes

Course Learning Outcome	Method of Assessment
<ol style="list-style-type: none"> 1. Identify physiological principles behind the physical agents listed in the topical outline. 2. Demonstrate safe and correct procedures for preparation of the patient, environment and treatment area for any physical therapy treatment. 3. Demonstrate safe and correct procedures for application of physical agents. These include therapeutic heat and cold, ultrasound, hydrotherapy and aquatics, traction, edema management, electrical stimulation and techniques for massage and compression bandaging following the Physical Therapist plan of care. 	<ol style="list-style-type: none"> 1. 5 - Written Exams including Comprehensive Final 2. 4 - Lab Practicals 3. Skill Check-offs & Lab Work 4. Professionalism Grade

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

Behrens, Barbara J., Physical Agents Theory and Practice for The Physical Therapist Assistant, Second Edition, F.A. Davis Co., Philadelphia, Pennsylvania, 2006.

Behrens, Barbara J., Laboratory Manual for Physical Agents, Theory and Practice, Second Edition, F.A. Davis Co., Philadelphia, Pennsylvania, 2006.

IV. Suggested Course Maximum - 16

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

None

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

During the course of a semester, there will be a written exam and lab practical following each unit of material. The unit exams will account for 56% of the final course grade. Lab practicals account for 20%; Skills Check-offs and Lab Work account for 5% and Professionalism in the classroom accounts for 5%. A comprehensive course final examination will be given at the end of the semester which will account for 14% of the final grade.

A letter grade will be assigned for the course based on the following scale:

100 - 90 = A

89 - 80 = B

79 - 75 = C

74 - 60 = D

Below 59 = F

A student must receive a "C" (75%) or above for successful completion of this course. Any student receiving a "D" or "F" must withdraw from the PTA Program.

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)

No additional documentation needed

- **Academic WCJC Core Course**

Attach the Core Curriculum Checklist, including the following:

- Basic Intellectual Competencies
- Perspectives
- Exemplary Educational Objectives

- **WECM Courses**

Attach the following:

- Program SCANS Matrix
- Course SCANS Competencies Checklist

SCANS Matrix

Program: Physical Therapist Assistant CIP: 51.0806									
LIST ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES									
Competencies								Course Number	Course Title
1	2	3	4	5	6	7	8		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 1321	Pathophysiology
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 1409	Introduction to Physical Therapy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 1413	Functional Anatomy
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PTHA 1531	Physical Agents
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2201	Essentials of Data Collection
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2205	Neurology
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2339	Professional Issues
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2409	Therapeutic Exercise
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2431	Management of Neurological Disorders
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2435	Rehabilitation Techniques
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 1360	Clinical-Physical Therapist Assistant-I
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2360	Clinical-Physical Therapist Assistant-II
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PTHA 2460	Clinical-Physical Therapist Assistant-III
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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								COMPETENCY REFERENCES	
								8 Basic use of computers	
								7 Workplace Competencies: resources; interpersonal skills; information; systems; and technology.	
								6 Personal Qualities: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	
								5 Thinking Skills: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	
								4 Speaking and Listening: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	
								3 Arithmetic or Mathematics: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	
								2 Writing: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	
								1 Reading: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	



Course Prefix & Number: PTHA 1531	
SCANS COMPETENCIES FOR THIS COURSE	
Competency	Method of Assessment
1 READING: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	Unit Exams and Lab Practical Exams
2 WRITING: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	Unit Exams, Lab Practical Exams and SOAP notes
3 ARITHMETIC OR MATHEMATICS: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	Unit Exams and Lab Practical Exams
4 SPEAKING AND LISTENING: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	Lab Practical Exams and Skill Check-offs
5 THINKING SKILLS: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	Unit Exams, Lab Practical Exams and Skill Check-offs
6 PERSON QUALITIES: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	Unit Exams, Lab Practical Exams and Skill Check-offs Professionalism grade
7 WORKPLACE COMPETENCIES: resources; interpersonal skills; information; systems; and technology	Lab Practical Exams
8 BASIC USE OF COMPUTERS	