

Administrative Master Syllabus

Course Information

Course Title	Biophysical Agents
Course Prefix, Num. and Title	PTHA 1531 Biophysical Agents
Division	Allied Health
Department	Physical Therapy Assistant
Course Type	WECM Course
Course Catalog Description	Biophysical principles, physiological effects, efficacy, and application of physical agents.
Pre-Requisites	PTHA 1413 and PTHA 1409
Co-Requisites	N/A

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	5:4:4
Lab/Other Hours	
Equated Pay Hours	6
Lab/Other Hours Breakdown: Lab Hours	4
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Department Head:		
Division Chair:		
VPI:		

Additional Course Information

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

- I. Lecture and lab include:
- II. Pain and Inflammation
- III. Physical Agents and Therapeutic Treatment Approaches
- IV. Heat and Cold Modalities
- V. Therapeutic Ultrasound
- VI. Therapeutic Use of Light
- VII. Hydrotherapy
- VIII. Passive Motion devices for Soft Tissue Management
- IX. Edema Management
- X. Therapeutic Massage
- XI. Foundation of Electrical Stimulation
- XII. Physiologic Basis of Electrical Stimulation
- XIII. Neuromuscular Applications for Electrical Stimulation
- XIV. Iontophoresis and Phonophoresis
- XV. Pain Management with Electrical Stimulation
- XVI. Electrical Stimulation Devices and Equipment

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

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

Methods of Assessment:

1. Written Exams including Comprehensive
2. Final
3. Lab Practicals
4. Skill Check-offs & Lab Work

Required text(s), optional text(s) and/or materials to be supplied by the student:

Behrens, Barbara J., / Beinert Holly, Physical Agents Theory and Practice, Newest Edition, F.A. Davis Co., Philadelphia, Pennsylvania

Suggested Course Maximum:

16

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

PTA Lab

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

4 Written Exams.....	50%
Lab Practicals & skills checks.....	20%
Comprehensive Final Exam.....	20%
Joint Specific Exams	06%
Quizzes, Assignments & Participation....	04%

A (90 – 100) B (80-89) C (75-79) D (70-74) F (below 70)

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course** – Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** – If needed, revise the Program SCANS Matrix and Competencies Checklist