

STANDARD COURSE OUTLINE (1/07)

PHTA 2283 & PHTA 2202: Physical Therapy Procedures I Lecture and Lab

PREREQUISITE:

MATH	1204	College Algebra	OR
MATH	1003	Math for AAS	
BIOL	2214	Anatomy & Physiology I	
BIOL	2224	Anatomy & Physiology II	
PSYC	2003	General Psychology	
ENGL	1013	English Composition I	
ENGL	1023	English Composition II	OR
ENGL	2013	Technical Writing	
AHSC	1001	Medical Terminology	
CISQ	1103	Introduction To Computer Information	
PHYS	1064	Introduction to Physics	OR
PHYS	2014	College Physics I	

Admission into the Physical Therapist Assistant Program

COURSE DESCRIPTION PHTA 2283

This course is designed to provide the PTA student with an understanding and clinical application of thermal, light, electrical, and mechanical agents, commonly used in the P.T. setting.

COURSE DESCRIPTION PHTA 2202

Lab skills to accompany PHTA 2283

CREDIT HOURS/CONTACT HOURS/ LOAD HOURS:

PHTA 2283 Physical Therapy Procedures I

3 credit hours / non-transferable/ 3 contact hours/ 3 load hours

PHTA 2202 Physical Therapy Procedures I Lab

2 credit hours / non-transferable/ 6 contact hours/ 6 load hours

TARGET AUDIENCE: Students admitted to the PTA Program who successfully complete the 1st summer session

INSTRUCTIONAL MATERIALS: See Instructor for Details

COURSE OBJECTIVES:

The following modalities are covered both didactically and in laboratory

- Compression garments
- Continuous Passive Motion
- Contrast Bath
- Cryotherapy
- Diathermy (thermal and non-thermal)

- Electrical Stimulation – NMES & Denervated Muscle
- Electrical Stimulation – Pain Control
- Fluidotherapy
- Hot Packs
- Iontophoresis
- Paraffin
- Phonophoresis
- Traction
- Ultrasound (thermal and non-thermal)

The following modalities are covered didactically only

- Biofeedback
- Infrared Lamp
- Laser
- Ultraviolet
- Intermittent Compression

Upon successful completion of this course, the student should be able to:

- 1) Use standard pain scales to assess and describe the type and location of pain.
- 2) Assess and describe edema, sensation, circulation and integumentary integrity.
- 3) Use physiologic rationales to support modality choice and parameter selection for modalities covered in this class.
- 4) Given patient scenarios, identify indications, precautions, contraindications and adverse effects for the modalities covered in the course.
- 5) Identify the phases of healing, the basic physiological processes in each phase, and the factors influencing normal & abnormal healing.
- 6) Understand and utilize the biophysical properties of the modalities covered in this course to allow safe and therapeutic treatment while staying in the plan of care
- 7) Communicate verbally, through demonstration, and/or written instruction, to the patient, caregiver, and other health care providers directions for using equipment covered in this class.
- 8) Safely administer, assess, sequence, modify, and progress modality treatments while staying within the plan of care and justify the treatment selections
- 9) Accurately document treatment sessions, including procedure, parameter, patient response, and effectiveness of treatment.
- 10) Report all changes in treatment sessions to the appropriate healthcare providers. (PT, nurses, Dr....)
- 11) Conduct self in a safe, professional, legal, and ethical manner during simulated patient care.
- 12) Describe &/or demonstrate the ability to sequence a treatment session including exercise, gait and modalities taking into consideration goals, plan of care, availability of treatment time, cognition of the patient, patient expectations, modality availability, and previous patient experience with various modalities.

- 13) Apply &/or demonstrate appropriate safety precautions for use of electrical equipment and problem solve equipment operation.

Methods of Assessment:

Assignments

Quizzes

Exams

Comprehensive Final

Lab Practical Exam

Lab Practical Activities

TOPICS:

Modality Overview, Healing, Pain & Patient Assessment

Patient Assessment

Thermal Agents – Superficial Heat, Cryotherapy & Diathermy, Ultrasound

Thermal Agent Modality Selection & Justification

Compression

Traction

Continuous Passive Motion

Electromagnetic Radiation – UV, Infrared & Laser

Introduction to Electrical Stimulation

Electrical Stimulation – NMES & Denervated Muscle

Electrical Stimulation – Pain Control – TENS, Interferential Current

Iontophoresis & Biofeedback