



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: PTA Procedures I Clinical Interventions
Course Number: PTA128

Required Materials

Textbook(s): Cameron, M. H. (2023). *Physical agents in rehabilitation: An evidence-based approach to practice* (6th ed.). Elsevier.
 Kisner, C., Colby, L. A., & Borstad, J. (2023). *Therapeutic exercise: Foundations and techniques* (8th ed.). F.A. Davis. Fairchild, S. L., O’Shea, R. K., & Washington, R. D. (2017). *Pierson and Fairchild’s Principles & Techniques of Patient Care* (6th ed.). Elsevier/Saunders.

Required Readings: See below
Additional Materials: Electrode Kit

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Introduction to Biophysical Agents Review of Inflammation and Healing Review of pain and pain pathways Thermal Agents Reading Assignments Cameron Ch. 1 (The Physiology of Physical Agents); pp. 21-34; pp. 45-59; Ch. 7 (Introduction to Thermal Agents); Ch. 8 (Superficial Cold and Heat)
2	Thermal Agents Reading Assignments Cameron Ch. 7 (Introduction to Thermal Agents); Ch. 8 (Superficial Cold and Heat)
3	Ultrasound Reading Assignments Cameron Ch. 9 (Ultrasound)

Week	Chapter/Topic/Lab
4	Intro to Electromagnetic Spectrum and EM Heating Reading Assignments Cameron Ch. 16 (Lasers, Light, and Photobiomodulation); Ch. 10 (Diathermy)
5	Intro to Electrical Stim Reading Assignments Cameron Ch. 11 (Introduction to Electrotherapy)
6	No Class
7	Ultrasound-ES combo High Volt Electrical stimulation of muscle Reading Assignments Cameron Ch. 14 (Electrical Currents for Soft Tissue Healing); Ch. 12 (Electrical Currents for Muscle Contraction)
8	Ultrasound-ES combo High Volt Electrical stimulation of muscle Reading Assignments Cameron Ch. 14 (Electrical Currents for Soft Tissue Healing); Ch. 12 (Electrical Currents for Muscle Contraction)
9	Traction Reading Assignments Cameron Ch. 20 (Traction)
10	Hydrotherapy Biofeedback Reading Assignments Cameron Ch. 19 (Hydrotherapy and Negative Pressure Wound Therapy); Ch. 15 (Electromyographic (EMG) Biofeedback)
11	Chest Physical Therapy Reading Assignments Pierson pp. 316-317 (Basic Wound Care and Specialized Interventions) O'Sullivan pp. 46-65; Ch. 12
12	Therapeutic Massage, Soft Tissue Mobilization Compression Reading Assignments Kisner & Colby pp. 115-116, 338, 341, 455 (Stretching for Improved Mobility) Cameron Ch. 21 (Compression)
13	Advanced Transfers Advanced Gait training Assistive devices Reading Assignments Pierson Ch. 8 (Transfer Activities); Ch. 9 (Assistive Devices, Patterns, and Activities)
14	Advanced Wheelchair management Review for Final Competency Reading Assignments Pierson Ch. 7 (Features and Activities of Wheelchairs)

Week	Chapter/Topic/Lab
15	Review and Testing
16	Appointments with students, as needed.