

SYLLABUS

Name of Course:	Physiotherapy Modalities – ACS-311
Length of course:	44 hours (4 hours lecture), 4 units
Course Description:	An introduction to physiotherapy, this course includes theory, principles and use of standard recognized physiotherapy equipment. The course is designed to allow the student to develop a working knowledge of the physics and function of the commonly employed therapeutic modalities, the rationale for their use, as well as their indications and contraindications. The student will gain an understanding through demonstration and hands on practice, of the techniques of application of these commonly used modalities as they apply to chiropractic.
Prerequisites:	Tech-216, DAIG-226
Course offered by:	Clinical Science Department
Required Text:	<u><i>Physiotherapy II Note Pack/Lab Manual</i></u> It is highly recommended that you have a copy of the PT video made in the library for study purposes.
Recommended Texts:	Starkey C. Therapeutic Modalities 4th ed. Philadelphia, PA: F.A. Davis Company, 2013. Michlovitz, S. L., Bellew, J. W., & Nolan, T. P., Jr. Modalities for Therapeutic Intervention 5th ed. Philadelphia: F. A. Davis Company, 2012. Jaskoviak PA., Applied Physiotherapy, 2 nd ed. Arlington, VA: The American Chiropractic Association, 1993. Prentice WE. Therapeutic Modalities in Rehabilitation 4th ed. New York: McGraw-Hill, Medical Pub. Division, 2011.
Method of Instruction:	Lecture with overheads, videos, discussion & demonstration. Lab will allow students to experience the information given during lecture.
Evaluation/Grading Criteria:	

1 Midterm	50 points	Midterm1 approx. 4 th week
2 Quizzes	25 points each	Approx. week 6 and 8
Final CUMULATIVE	<u>100 points</u>	
Total	200 points	

Grades and the Grading System Final Grades are available online through the CAMS student portal. If there are any questions on grading procedures, computation of grade point average, or the accuracy of the grade report, please contact the Registrar's Office or the Office of Academic Affairs. Grades will be reported and evaluation will be based on the Academic Policies, Procedures, & Services. Please refer to Evaluation Policy (**Policy ID: OAA.00007**)

In order to maintain **Satisfactory Academic Progress**, a student must maintain a 2.0 or better in each and every course. **Any grade less than a C must be remedied by repeating the class.** Please refer to Satisfactory Academic Progress (**Policy ID: OAA.00006**)

Attendance: Please refer to Attendance Policy (**Policy ID: OAA.00002**)

Conduct and Responsibilities: Please refer to the Personal Conduct, Responsibility and Academic Responsibility Policy (**Policy ID: OAA.00003**)

Make-up Exams: Please refer to Make-up Assessment Policy (**Policy ID: OAA.00001**)

Request for Special Testing: Please refer to Request for Special Testing (**Policy ID: OAA.00004**)

Accommodation for Students with Disabilities:

If you have approved accommodations, please make an appointment to meet with your instructor as soon as possible. If you believe you require an accommodation, but do not have an approved accommodation letter, please see the Academic Counselor Lori Pino in the Office of Academic Affairs. Contact info: Lpino@lifewest.edu or 510-780-4500 ext. 2061. Please refer to Service for Students with Disabilities Policy (**Policy ID: OAA.00005**)

Electronic Course Management:

Canvas is LCCW's Learning Management System (LMS). Canvas will be used throughout the quarter during this course. Lectures, reminders, and messages will be posted. In addition, documents such as the course syllabus and helpful information about the class project will be posted. Students are expected to check Canvas at least once a week in order to keep updated. The website address for Canvas is <https://lifewest.instructure.com/login/canvas> Please refer to the Educational Technologies Policy (**Policy ID: OAA.00009**)

Course Goals: The goal of this course is to provide the student with a level of knowledge and understanding of the modalities which are commonly used in a chiropractic office setting.

Curricular Objectives: [Council of Chiropractic Education (CCE) and LCCW Mapping]

1. Formulate a diagnosis/es supported by information gathered from the history, examination, and diagnostic studies. [CCE: 1E]
2. Determine the need for chiropractic adjustment/manipulation or other forms of passive care. [CCE: 2B]
3. Explain health risk factors, leading health indicators and public health issues to patients. [CCE: 3B]

Course Objectives:

Week 1: Describe pathophysiologic stages of tissue repair, physiotherapy modalities as they pertain to the stages of pathophysiologic tissue repair, the electromagnetic spectrum, acoustic (sound) spectrum, and the general contraindications to all physiotherapy modalities.

Week 2: Explain physiological effects, indications, contraindications and application of cryotherapy. Describe the physiological effects, indications, contraindications and application of superficial heating modalities.

Week 3: Continue with description of superficial heating modalities. Describe the physiological effects, indications, contraindications and application of Deep Heating Modalities.

- Week 4:** Continue with description of Deep Heating Modalities-Diathermy/US
- Week 5:** Discuss the Basic Theory of Electrical Modalities.
- Week 6:** State the physiological effects, indications, contraindications and application of Low volt galvanic, Low volt pulsed current, High volt, TENS, Sinusoidal and Faradic.
- Week 7:** Continue explaining the physiological effects, indications, contraindications and application of Interferential, Russian Stim, Microcurrent, Laser and Percussive therapies.
- Week 8:** **Demonstrate** proper procedures for applying IF.
- Week 9:** Practice practical administration of laser and percussive therapies
- Week 10:** Review the use of the electrical modalities discussed the previous weeks.
- Week 11:** *Finals Week – Final exam 100 points.*

Student Learning Outcomes (SLO):

1. The student will be able to evaluate and subsequently formulate a care plan utilizing the modalities shown in lecture and lab. This includes the ability to recognize when a specific modality is contraindicated for use. [PLO: 1,2,3]
2. The student will be familiar with all settings and parameters for the modalities used in the health center.[PLO: 1,2,3]
3. The student will be able to explain his/her rationale for using the modality they choose to implement. [PLO:2,3]

Program Learning Outcomes (PLO): Students graduating with a Doctor of Chiropractic degree will be proficient in the following:

1. **ASSESSMENT AND DIAGNOSIS:** An assessment and diagnosis requires developed clinical reasoning skills. Clinical reasoning consists of data gathering and interpretation, hypothesis generation and testing, and critical evaluation of diagnostic strategies. It is a dynamic process that occurs before, during, and after the collection of data through history, physical examination, imaging, laboratory tests and case-related clinical services.
2. **MANAGEMENT PLAN:** Management involves the development, implementation and documentation of a patient care plan for positively impacting a patient's health and well-being, including specific therapeutic goals and prognoses. It may include case follow-up, referral, and/or collaborative care.
3. **HEALTH PROMOTION AND DISEASE PREVENTION:** Health promotion and disease prevention requires an understanding and application of epidemiological principles regarding the nature and identification of health issues in diverse populations and recognizes the impact of biological, chemical, behavioral, structural, psychosocial and environmental factors on general health.
4. **COMMUNICATION AND RECORD KEEPING:** Effective communication includes oral, written and nonverbal skills with appropriate sensitivity, clarity and control for a wide range of healthcare related activities, to include patient care, professional communication, health education, and record keeping and reporting.
5. **PROFESSIONAL ETHICS AND JURISPRUDENCE:** Professionals comply with the law and exhibit ethical behavior.
6. **INFORMATION AND TECHNOLOGY LITERACY:** Information literacy is a set of abilities, including the use of technology, to locate, evaluate and integrate research and other types of evidence to manage patient care.
7. **CHIROPRACTIC ADJUSTMENT/MANIPULATION:** Doctors of chiropractic employ the adjustment/manipulation to address joint and neurophysiologic dysfunction. The adjustment/manipulation is a precise procedure requiring the discrimination and identification of dysfunction, interpretation and application of clinical knowledge; and, the use of cognitive and psychomotor skills.
8. **INTERPROFESSIONAL EDUCATION:** Students have the knowledge, skills and values necessary to function as part of an inter-professional team to provide patient-centered collaborative care. Inter-professional teamwork may be demonstrated in didactic, clinical or simulated learning environments.
9. **BUSINESS:** Assessing personal skills and attributes, developing leadership skills, leveraging talents and strengths that provide an achievable expectation for graduate success. Adopting a systems-based approach to

business operations. Networking with practitioners in associated fields with chiropractic, alternative medicine and allopathic medicine. Experiencing and acquiring the hard business skills required to open and operate an on-going business concern. Participating in practical, real time events that promote business building and quantifiable marketing research outcomes

- 10. PHILOSOPHY:** Demonstrates an ability to incorporate a philosophically based Chiropractic paradigm in approach to patient care. Demonstrates an understanding of both traditional and contemporary Chiropractic philosophic concepts and principles. Demonstrates an understanding of the concepts of philosophy, science, and art in chiropractic principles and their importance to chiropractic practice.