

SYLLABUS

Name of Course:	Advanced Knee Chest Upper Cervical Chiropractic (TECH-183)
Length of Course:	1.5 units, 30 hours
Course Description:	This elective course offers instruction on the application of the Knee Chest Upper Cervical Specific adjustment in a clinical setting. The course will cover the history, rationale, analysis and correction utilized in the technique. Specific topics presented include paraspinal thermography, biomechanical x-ray analysis, the specifics and nuances within the adjustment, as well as practical guidance on patient care.
Prerequisites:	TECH-130, TECH-233
Course Offered By:	Technique Department
Required Text:	<i>Upper Cervical Subluxation Complex</i> (2003) By Kirk Eriksen, DC, Lippincot Williams & Wilkins Volume XVIII Green Book Series, Palmer BJ

Reference Text:

- H. R. Jones, (2011) *Netter's Neurology*
- Frank Netter, (2010) *Atlas of Human Anatomy* (5th edition), Professional Edition, Saunders Elsevere.
- *The Physiology of the Joints Vol 3*, (2008) I.A. Kapandji, New York: Churchill Livingstone.
- Leach, R. A. (2003). *The Chiropractic Theories: A Textbook of Scientific Research* (4th Ed.) Baltimore: Lippincott Williams & Wilkins.
- Panjabi, M. M., & White, A. A. (2001). *Biomechanics in the Musculoskeletal System*. New York: Churchill Livingstone.
- White, A. A., III, & Panjabi, M. M. (1990). *Clinical Biomechanics of the Spine* (2nd Ed.). Philadelphia: J.P. Lippincott Company

Materials: Body Drop Simulator (Speeder Board)

Method of Instruction: Lecture and practical demonstration of the technique. Student will get hands on experience during every class.

Technique Lab Attire Policy:

Healthy clean hygiene is expected from all students. It is recommended that students bring a face cloth and/or towel to place on the table. Towels reduce the need for the use of chemical sanitation treatments on the adjusting tables.

- **Accessibility to the Spine and Spinal Structures:**
- Patient gown - In an effort to recreate a clinical setting and to appropriately facilitate the realistic use of skills relative to professionalism and personal boundaries, “gowns” made of torn or altered t- shirts/garments are not acceptable for this course.
- To maintain modesty and a professional environment, no revealing attire is permitted.
- Covered shoes (sandals and flip flops do not qualify) are required for all participants.

Materials Required:

Patient Gown (preferably waist length)
Skin Marking Pencil

Please check with your instructor for any further instructions for your particular course or if you have any concerns about the appropriateness of specific articles of clothing.

Technique Department Elective Policy:

NOTE: All electives at LCCW are pass / no pass. Any student who drops or does not pass an elective will not be eligible to take an elective the following quarter.

In accordance with technique department regulations Elective classes must be passed with at least 75% successful completion rate of the required assessments.

Grading/Evaluation:

Assessments: Skills evaluations & Final Exam

Each student will be required to demonstrate proficiency (75%) in each of the following areas of knowledge:

1. Image acquisition & patient evaluation
2. Thermography acquisition & evaluation
3. Delivering the custom correction
4. Patient Management

Skills Evaluation:

1. Thermography Technique - 5 consistent scans on 2 different patients
2. X-Ray analysis
3. Patient positioning: Atlas and Axis

100 Points Total (25 points each):

- Final X-ray Analysis
 - Final Thermography Case Studies
 - Final Simulated Adjustment Thrust
 - Final Patient Set-up (Atlas and Axis)
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Total possible points: 100

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.0007**)

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.0006**)

Attendance: Please refer to Attendance Policy (**Policy ID: OAA.0002**)

Conduct and

Responsibilities: Please refer to the Personal Conduct, Responsibility and Academic Responsibility Policy (**Policy ID: OAA.0003**)

Make-up Exams: Please refer to Make-up Assessment Policy (**Policy ID: OAA.0001**)

Request for

Special Testing: Please refer to Request for Special Testing (**Policy ID: OAA.0004**)

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.0005**)

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.0009**)

Course Objectives: In reference to the weekly course topics, the Instructor will:

1. Introduce current concepts in the philosophy science and art of the Knee Chest Upper Cervical system of analysis and adjusting
2. Discuss and demonstrate the unique components and factors necessary to perform the complete patient work-up and administration of care in Knee Chest Upper Cervical practice
3. Discuss and demonstrate the specific system of radiographic and thermographic analysis and application within the Knee Chest Upper Cervical system

Weekly Schedule

Week	Lecture	Lab
1	Introduction	Mechanics and Drills
2	Thermography Neurology	Mechanics and Drills Thermography
3	Biomechanics Neurology	Patient Set-up Thermography
4	X-ray Analysis	Line Markings

5	Case Study, X-ray Anomalies	X-ray Positioning
6	Case Study	Patient Set-up
		Line Markings
7	Case Study	Mechanics and Drills
		Patient Set-up
8	Case Study	Thermography
		Line Markings
9	“Putting it together”	Correlating findings with adjustment
10	Final Written	Final Practical
<i>Order of topics subject to revision based on class size and needs of students.</i>		

Student Learning Outcomes (SLO): At the completion of the TECH-183 course, a student should be able to:

1. Demonstrate a practical knowledge in upper cervical radiography including producing, analyzing and evaluating precision radiographic images using traditional, biomechanical and advanced methods
2. Demonstrate a practical knowledge of paraspinal thermography including the production and analysis of accurate, reproducible scans.
3. Demonstrate how to manage a patient utilizing the knee chest method of chiropractic care.
4. Deliver an effective correction, restoring proper biomechanics and neurology as demonstrated by specific outcome measures employed in Knee Chest upper cervical care

The following PLO's are mapped to this course: [1, 2]

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.