

## SYLLABUS

<b>Name of Course:</b>	NUCCA - TECH-180
<b>Length of Course:</b>	1.5 units, 30 hours (3 hour lab/week)
<b>Course Description:</b>	This elective course is designed to expose students to all aspects of the NUCCA technique in a hands-on learning environment. Topics include the NUCCA approach to patient care, specific radiography, upper cervical subluxation analysis, the specific biomechanics and adjustive procedure, the unique table and headpiece utilized, as well as the leg check and use of the Anatometer as an outcome assessment.
<b>Prerequisites:</b>	TECH-130
<b>Course Offered by:</b>	Technique Department
<b>Department Objective:</b>	To give to our students, freely and out of abundance, the best of our knowledge and skills. To develop the most talented of chiropractors that they may with skill, both find and correct the vertebral subluxation. To do this for the overall betterment, health, and well being of their patients and the world.
<b>Required Text:</b>	None
<b>Recommended Text:</b>	<i>NUCCA Protocols and Perspectives</i> <i>First Edition, Edited by Michael D. Thomas, D.C.</i>
<b>Reference Texts:</b>	None
<b>Materials:</b>	1. Film analysis instruments (available from LCCW Library) 2. Film marking pencil, protractor (#8), clear ruler, and eraser.
<b>Method of Instruction:</b>	Discussion, instruction and hands-on demonstration

### Lab Attire Policy:

All students are required to follow the policy outlined in this section. Failure to wear proper attire or follow the guidelines may result in being counted as absent for that lab and / or not being allowed to participate. Please notify the instructor if you have any health concerns (skin conditions, injuries, etc.) or other issues that may hinder your ability to comply to these guidelines.

Keep in mind that everything we ask and expect of students is focused on clinical practice and providing a safe professional environment not only for the students in the lab, but eventually for the patients under your care.

**Healthy clean hygiene is expected from all students.** Common courtesy and mutual respect suggests you do not show up wearing the same gym clothes you wore during your daily workout. It is recommended that students bring a towel to place on the table. Towels maintain sanitary standards and reduce the need for the use of chemical sanitation treatments on the adjusting tables. Plus, vinyl can be cold and uncomfortable to lie on at times.

- **For Men:** A crew neck T-shirt with sleeves, gym shorts to expose the lower extremity (long pants may be worn after the midterm)
- **For Women:** A crew neck T-shirt with a bra underneath and shorts.
- To maintain modesty and a professional environment, no low cut or revealing attire is permitted. After the midterm women will need to wear a bathing suit type of top to expose the anterior ribcage and clavicle. (long pants may be worn after the midterm)
- **Covered shoes** (sandals and flip flops do not qualify) **are required for all participants.**



Alternative Option: Students may wear approved Health Center attire in this class instead of the lab attire listed above. *NOTE: Failure to comply may result in the student not being allowed to participate in lab and being counted absent*

**Grades and Method of Grading:**

*All technique electives are pass / no pass. NOTE: If a student drops an elective or does not pass the course, they will be ineligible to take another elective the following quarter.*

<b>Evaluation:</b>	Lecture-Midterm	50	Overall grade %	Lecture	33.3%
	Midterm Practical	100	Lab		66.6%
Cumulative -	Final Practical	150			
Cumulative final -	<u>Written Test</u>	<u>75</u>			
	Total points	375			

Examinations will be objective and subjective. Examination material will be derived from the printed notes, materials handed out throughout the course, lectures and labs. Students with a cumulative completion rate of 75% of all the assessments will pass the course

**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](mailto: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**)

**Participation Protocol:**

This is a "hands-on" class. You are expected to participate by palpating, setting-up, positioning, or any other requirements as stated in the course syllabus, in turn, you are expected to be palpated, set-up on, positioned or be the recipient of such practice methods as set forth in the course syllabus.

**Course Objectives:****During this course the instructor will;**

1. Discuss and demonstrate patient placement, Dr. stance, contact point, tissue pull, line of correction, and torque utilizing the NUCCA protocols.
2. Discuss and perform the different set-ups, how to place the patient for correct headpiece settings (based on the basic type), and how to consistently use the Anatometer.
3. Demonstrate X-ray positioning, analysis and alignment and how to analyze NUCCA-specific films for Height and Rotation vectors.
4. Demonstrate how to perform accurate and consistent leg checks.

## **Course Lecture Outline:**

Instructor will discuss and demonstrate the following key points each week.

- Week 1:** Introduction to Advanced NUCC
- Week 2:** X-ray patient positioning
- Week 3:** X-ray patient positioning/X-ray analysis
- Week 4:** X-ray analysis
- Week 5:** *MIDTERM*
- Week 6:** Patient examination / Patient positioning
- Week 7:** Patient positioning/NUCCA care
- Week 8:** NUCCA care/4 Basic Types
- Week 9:** 4 Basic Types/Patient management
- Week 10:** *FINAL*

## **Lab Outline:**

- Week 1:** Intro/Demonstration/ Familiarization
- Week 2:** X-ray alignment Demo/ Patient placement for films
- Week 3:** Same as week 2
- Week 4:** X-ray analysis- lateral and nasium
- Week 5:** X-ray analysis - nasium (cont'd) and vertex
- Week 6:** Leg Check / Anatometer / Spinemaster use.
- Week 7:** Patient placement- headpiece selection.
- Week 8:** Settleback
- Week 9:** Settleback (cont'd) and contact
- Week 10:** Triceps Pull.

## Student Learning Outcomes:

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

- 1) Demonstrate patient placement, Dr. stance, contact point, tissue pull, line of correction, and torque utilizing the NUCCA protocols. [PLO: 1,2,4,7,10]
- 2) Demonstrate the different set-ups, as well as place the patient for the correct headpiece setting. [PLO: 1,2,4,7,10]
- 3) Demonstrate a practical knowledge of X-ray positioning, analysis and alignment, as well as the ability to analyze the NUCCA films for height and rotation vectors. [PLO: 1,2,4,6,10]
- 4) Be able to perform accurate and consistent leg checks and use the Anameter with consistency. [PLO: 1,2,3,6,7,10]

**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.