

SYLLABUS

Name of Course:	Advanced Adjusting for Physically Compromised Patients TECH-188
Length of Course:	2.0 units, 30 hours (2 hour lecture/1 hour lab/week)
Course Description:	This course is designed to teach evaluation, adjusting and management techniques for patients who have suffered serious singular or multiple physical injuries that prevent or hinder normal adjusting protocol efficacy. These adjusting techniques will include caring for the seriously and or chronically injured spine, rib cage, pelvis and extremities. All the adjusting protocols assume injury to surrounding joints and tissues.
Prerequisites:	TECH-123, TECH-129, TECH-130, DIAG-239
Course Offered By:	Technique/Analysis Department
Required Text:	Atlas of Common Subluxations of the Human Spine and Pelvis. 2014, Ruch W. Physical Examination of the Spine and Extremities. 1976, Hoppenfeld S. Advanced Adjusting Technique, W. Ruch, 2015
Recommended Text:	Cervical Syndrome 1978, Jackson R. Atlas of Radiologic Anatomy 7 th ed. 2004, Wicke L. Adverse Mechanical Tension on the Central Nervous System 1978, Brieg A. Whiplash Injuries 1988, Foreman, S.,M., Croft, A.,C.,
Required Materials:	Spring loaded adjusting instrument, Thuli speeder board
Method of Instruction:	Lecture, lab demonstrations, “hands-on” adjusting only if all the proper school requirements are met {per college policy}

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.

Students with a cumulative completion rate of 75% of all the assessments will pass the course

- Written Midterm: 30%
- Lab Practical 20%
- Written Final: 30%
- Lab Final Practical: 20%
- TOTAL: 100%

Extra Credit: No extra credit currently offered

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**)

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.

Technique 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.**

The bottom line is we need to be able to easily palpate the spine for specific landmarks and structures. If you have any questions or concerns as to whether an article of clothing meets the criteria for lab attire check with the instructor before the lab begins.

Alternative Option: Students may wear approved Health Center attire in this class instead of the lab attire listed above.

Course Objectives: This course is designed to introduce the student to the challenges of caring for physically compromised patients.

- Students will gain the ability to adapt common adjusting methods for use with patients in physically compromised states of health
- Students will study how to adapt examination and analysis procedures for physically compromised patients in varying states of recovery
- Students understand the unique approach required to successfully manage complex cases with patients who have suffered multiple physical injuries

Weekly Topics / Guidelines

- Week 1: Instruction on concepts of serious single or multiple physical injuries (the entire spine and all extremities), and limitations of position (patient can only be supine or side lying)
Evaluation procedures
General treatment guidelines
Management techniques for frail and compromised patients
- Week 2: Instruction on pelvic injuries including patients with hip replacements, pubic symphysis instability
Assessing and adjusting the pelvic girdle
Assessing and adjusting of the pregnant patient (late stage)

- Week 3: Instruction on rib cage injuries, sternal joints with the ribs and clavicles. Patients with a history of thoracic fractures and / or rib fractures
Assessment of chest wall injury
Adjusting and managing the injured rib cage
- Week 4: Instruction on cervical injuries, including upper cervical adjusting patients with spinal fusions and advanced arthritis
Assessing and adjusting the injured cervical spine
- Week 5: **Mid-term exam** first 2 hours - includes written and practical examinations
Instruction on shoulder injuries; including the rotator cuff and AC joint.
Assessing and adjusting the injured shoulder
- Week 6: Instruction on upper extremity injuries including patients with a history of surgery and / or fracture
Assessing and adjusting the elbow & wrist joints
- Week 7: Instruction on thoracic and lumbar injuries including patients with arthritis, spinal implants and / or fractures
Assessing and adjusting the thoracic & lumbar spine
- Week 8: Instruction on knee, leg, foot and ankle injuries including patients with replacements or arthritis of the knee, and / or instability of the lower leg, arthritis and / or surgeries
Assessing and adjusting the knee, leg, foot & ankle
- Week 9: Instruction on spinal cord injuries, the biomechanics of the central nervous system, stroke and common complications.
Limitations of movement and position
Basic concepts of restoring normal structure and motion
Instruction and demonstration on the need for passive motion instruction and demonstration to patients
- Week 10: Final Exams – includes written and lab practical portions

Student Learning Outcomes (SLO):

At completion of this course the student should be able to:

1. Apply previously acquired knowledge and skills in Chiropractic analysis, orthopedic evaluation and imaging exams to identify the subluxations in a physically compromised patient. [PLO: 1,6,8,10]
2. Deliver Chiropractic adjustments to a physically compromised patient with limited positions and set-ups available using gentle, repetitive, directed forces to correct subluxations while taking into account previous injuries. [PLO: 2,3,4,7]
3. Demonstrate knowledge of the rehabilitation and case management of chronic and possibly debilitating conditions. [PLO: 2,3, 4,8]
4. Demonstrate knowledge of case management protocols in complex injury cases [PLO: 2,3,4,8]

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.