



Division of Clinical Sciences
Department of Chiropractic Principles, Technique, and Biokinetics
Course Syllabus Summer 2010

CH3110 Chiropractic Principles 3-Basic Science Concepts of Chiropractic

1 credit, (15 hours)

Lecture time and place: Th 10:00pm-10:54pm L-206

Contact Information:

Course Professor: **Bradley R. Koby, B.S., D.C., C.C.S.P.**

Office: Faculty Office Building #214

Office Hours: Wed. 11-11:45am & Thurs. 11-11:45am (By appointment with Faculty Secretaries)

Phone: 281-998-5721

E-mail: bkoby@txchiro.edu

Required Readings/Texts:

Foundations of Chiropractic Subluxation by Gatterman (second edition.) Elsevier Mosby 2005

The Chiropractic Theories by Leach (fourth edition.) Lippincott Williams & Wilkins 2004

Scholar 360 Address:

Principles 3

Course Description:

This course is designed to explore the basic science concepts relating to the practice and philosophies of chiropractic care. This course presents scientific explanations of spinal dysfunctions, subluxation and the various proposed mechanisms concerning chiropractic manipulation and healthcare.

Goal/Rationale of the Course:

This course is designed to expose the student to the basic science concepts of chiropractic. The emphasis will be directed at the varied hypotheses that attempt to explain the mechanisms and outcomes observed by practitioners of this profession. The mastery of this material will be necessary for doctors of chiropractic to effectively communicate the concepts of chiropractic with patients and collaborate with other professionals when in practice. The course is organized to consider the validity and contradictions of the various hypotheses through the concepts of the basic sciences.

Learning Objectives:

The learning objective of this course is to provide the future doctor of chiropractic with an understanding of the basic science concepts, research and the varied hypotheses that have been offered to explain the outcomes observed in patients following chiropractic manipulation.

The course will address the following CCE clinical competencies;

Chiropractic Adjustment or Manipulation

The Doctor Patient Relationship

Professional Issues

The course will address the following TCC clinical competencies;

Communication

Evidence Based Practice / Research

Learning Outcomes:

Students should be able to describe the varied hypotheses that have been suggested to explain the clinical outcomes experienced daily in chiropractic practices currently serving the general public.

Students should also be able to describe past and present research that supports and/or refutes these hypotheses.

Students should be able to apply this research along with their own acquired knowledge to effectively communicate an explanation of chiropractic concepts to future patients and to collaborative healthcare providers.

Students should be able to describe basic science concepts that support chiropractic.

Students should be able to define and describe the concept of subluxation / somatic dysfunction.

Teaching Philosophy:

Lecture and discussion of the various basic science concepts associated with the material.

Students can expect maximum benefit from this course if they attend the class, read each chapter before the lectures to provide a knowledge base for discussing the information covered in that chapter during class discussions and also adopt the habit of daily study instead of cramming for exams.

Socratic teaching methods through questioning and role playing may be employed to prepare the student for future utilization of this information in practice.

Each student carries the responsibility to master this information. The instructor's responsibility rests on providing a venue conducive to that learning.

Student Responsibilities:

Participation:

Students must attend classes. Students are also encouraged and expected to participate in class discussions.

Homework:

Homework consists of reading the chapters before they are presented in class.

Daily Responsibilities:

The daily responsibilities of every doctor are to continue to learn and maintain a positive attitude towards this ongoing process.

Quizzes/Exams:

Unannounced quizzes may be given at any time at the discretion of the instructor. There will be a formal midterm and a formal final comprehensive exam.

Course Content and Outline:

Major Topics: (In order of presentation.) Some topics may take multiple class sessions to cover therefore dates are tentative. Instructor reserves the right to alter schedule to facilitate students' learning.

Week 1	Gatterman: Chapter 9	The Vertebral Subluxation Complex
Week 2	Gatterman: Chapter 10	Theoretic Models of Chiropractic Subluxation
Week 3	Gatterman: Chapter 11	Kinesiology: An Essential Approach Toward Understanding the Chiropractic Subluxation
Week 4	Gatterman: Chapter 12 & 13	Buckling: A Biomedical Model of Subluxation, & Three Neurophysiologic Theories on the Chiropractic Subluxation
Week 5	Gatterman: Chapter 14	Vertebral Subluxations and the Anatomic Relationships of the Autonomic Nervous System
Week 6	Midterm	
Week 7	Gatterman: Chapter 15	Review of the Systemic Effects of Spinal Manipulation
Week 8	Gatterman: Chapter 16	Spinal Cord Mechanisms of Referred pain and Related Neuroplasticity
Week 9	Leach: Chapter 10 & 11	Instability Hypothesis
Week 10	Leach: Chapter 14	Myelopathy Hypothesis
Week 11	Leach: Chapter 15	Hypothesis of Vertebrobasilar Arterial Insufficiency
Week 12	Leach: Chapter 16	Neuroimmune Hypothesis
Week 13	Leach: Chapter 18	Axoplasmic Aberration Hypothesis
Week 14	Finals Week	Final Examination

Due Dates for Assignments, Exams, etc.:

Unannounced quizzes.
Midterm Week 6 (Tentative)
Comprehensive Final Exam during finals week.

Grade Method and Scale:**Explanation of Evaluation:**

Exam and quiz scores will determine the final class grade.
Other assessments may be incorporated at the discretion of the instructor as necessary to insure student mastery of the course material.

Grade Scale: A=90-100
 B=80-89
 C=70-79
 F=69 and below

Statement on the Assessment Process and Measurements:

Quizzes and exams will be paper based, multiple choice and fill in the blank style assessments. Instructor reserves the right to modify formats if he deems it necessary to insure that the student masters the course content.

Assessment Format:

Midterm=50% (50 points).
Midterm exam will consist of 25 questions that may include multiple choice and /or fill in the blank formats.
There are currently no planned extra credit opportunities.

Comprehensive Final Exam = 50% (50 points)

Final comprehensive exam will consist of 50 multiple choice questions that may include any material that was covered in this class.

Resources:

I am available during my office hours in the Iwama Building , office #214, to facilitate students' learning.

Essential Policy Information:**Attendance** p. 58 Student Handbook:

Regular and punctual attendance at all scheduled classes and laboratories is expected. A student is subject to academic penalty if absences exceed ten percent. Absences exceeding twenty percent subject a student to dismissal from a course. Three (3) incidences of tardiness may constitute an absence. If justifiable cause can be shown for the absenteeism, the student may be permitted to make up missed assignments and maintain enrollment in the class.

Examinations (updated policy):

Students must notify faculty before missing any examination. If an examination is missed for good and sufficient reason and the student has notified the faculty member in advance, a make-up examination may be given subject to a fee of \$40.00. The fee for the make up examination is a minimum of \$75.00 if a standardized patient is required for the exam. Additional required standardized patient hours may increase this \$75.00 minimum fee. All intra-term examinations must be made up prior to final examinations. Missed final examinations must be made up within the first week of the next trimester. A student may be allowed a maximum of two missed examination dates for good and sufficient reason per trimester. These two missed examination dates are for all enrolled courses in a trimester, not for each individual course. Any request for additional make up examinations will require documentation substantiating the absence and must be approved by the Dean of Academic Affairs.

Incompletes p. 58 Student Handbook:

Course assignments and examinations must be completed prior to the final examination in that course. Assignments and examinations not completed receive a grade of zero.

Cellular Phones and Pagers p.12 Student Handbook:

Electronic communication devices are to be turned off or placed in silent mode when entering the classroom. This will benefit the learning environment for you, your fellow classmates, and instructors.

Guidance and Counseling p.18 Student Handbook:

The Guidance and Counseling Department is prepared to confidentially assist students, faculty, and staff with personal, relationship, and academic mental health-related issues. With appropriate documentation, the Director of Guidance and Counseling coordinates academic-related special needs with instructors.

Academic dishonesty will not be tolerated. ADA policies are observed.

This syllabus may be modified at any time for the good of the order.