

SYLLABUS

NAME OF COURSE: **RESEARCH METHODOLOGY - CPP 235**

LENGTH OF COURSE: 1.5 Units 22 hours, **2 hours/week**

COURSE DESCRIPTION:

This is a fully online course that is designed to complement the student clinical experience by providing the opportunity to research scientific literature relevant to currently managed cases. The course provides the opportunity of hands-on experience writing a case study report. Research design relative to patient-centered outcomes research and comparative effectiveness research of research methods and statistical procedures, and elements of research design will be integrated into the content of the course.

PREREQUISITES: **CPP-127, HC-332**

RECOMMENDED TEXT: Haneline, Evidence-Based Chiropractic Practice, 1st ed. (2006)(August 18, 2006).

REFERENCE TEXT: None

MATERIALS: Selected course notes available on CANVAS.
Microsoft Word, computer and Internet access available in the Learning Resource Center.

COURSE OFFERED BY: Chiropractic Philosophy and Principles Department

CLASS TIME: **This is an online course held on CANVAS. It starts in Week-1 of the quarter.**

METHOD OF INSTRUCTION: Online Course: students will log into Canvas multiple times a week to participate in weekly discussion boards and quizzes, obtain posted handouts, submit assignments and view online audio-visual teaching aids.

EVALUATION:

Students will be evaluated on their participation in weekly discussion boards, a quiz, 4 assignments and a library assignment. Students will also create a final assignment, which is a complete case report. Note: each assignment is a section of the final case report. There is also a mandatory peer review process for assignment 1, 2, 3, and 4.

The 4 assignments, library assignment and the final case report must be submitted through CANVAS on their posted due date.

Initial responses to the discussion boards are due by Wednesday at midnight (PST)

The 2 peer responses per discussion board are due by Sunday at midnight (PST)

Discussion Participation	20 Points
Assignment 1	10 Points
Assignment 2	10 Points
Assignment 3	10 Points
Assignment 4	10 Points
Library Assignment	10 Points
Week 2 Quiz	10 Points
Final Assignment	20 Points

Total **100 Points**

An additional ten points extra credit may be available for students. Details will be posted on Canvas after Week 5.

GRADES:

A = 90%– 100%

B = 80% – 89%

C = 70% – 79%

F = <70 (Student must repeat the entire course)

LATE ASSIGNMENTS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL.**INDEPENDENT STUDENT WORK**

All assignments and exams must be the product of the individual student’s original efforts for this class. Collaboration is prohibited.

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 GOALS:

The goal of this course is to introduce and teach students skills and tools necessary to write a publishable case study. The regulatory requirements of review and approval by an Institutional Review Board are emphasized. Concepts of study design related to the stated, clean research question are emphasized. Collaborative research work with Health Center faculty advisors and college academic faculty is expected.

COURSE OBJECTIVES:

1. Review the basics of writing a publishable case study.
2. Describe the standard sections of an ideal publishable case study.
3. Apply the acquired knowledge and skills onto writing a patient case study.

COURSE OUTLINE:

WEEK 1	Review the material posted in the week one folder on CANVAS about the course material and introduction to case reports. Post to this week's discussion forum and introduce yourself
WEEK 2	Take the quiz about the week 1 reading material. Review this week's material in PDF format: "Writing the Case Report and Intervention sections." Select a patient file for your case study. Post to this week's discussion forum.
WEEK 3	Review this week's material in PDF format: "Writing the Introduction section." Submit Assignment 1: Case Report and Intervention Sections. Post to this week's discussion forum.
WEEK 4	Information Literacy. This week's material will be covered by Barbara Delli Gatti. The library assignment will help locate the articles you need in order to write a publishable case study. . Work on a draft of Assignment 2: Introduction Section
WEEK 5	Review the PDF file: How to write the Outcome Section. Submit Assignment 2: Introduction Section. Post to this week's discussion forum
WEEK 6	Review the PDF file: How to write the Discussion Section. Submit Assignment 3: Outcome Section Post to this week's discussion forum.
WEEK 7	Review the PDF file: How to write the Conclusion Section. Submit Assignment 4: Discussion & Conclusion Sections. Post to this week's discussion forum.
WEEK 8	Review the PDF file: How to write the Abstract. Work on editing past assignments, place the sections in the correct order for the final paper and check the citation numbers. Write a draft of the Abstract. Post to this week's discussion forum.
WEEK 9	Complete the online training module for the protections of human research subjects from the Department of Health and Human Services/OHRP (module is two-thirds of the way down on the page provided at: http://www.hhs.gov/ohrp/education/training/index.html Post the certificate of completion to this week's discussion forum.
WEEK 10	Submit Assignment 4 (Final Assignment) to the <u>CANVAS</u> during Week-10, late submissions will not be accepted. Remember Assignment 4 is all the sections combined plus the abstract section that results in your finished project – a publishable case report!

Student Learning Outcomes (SLOs)

1. At the end of the course, students should be able to:
2. Review and evaluate series of patients' cases. [PLO: 1, 2, 3, 4, 6]
3. Identify a publishable patient case from the personal practice or in collaboration with other practitioners. [PLO: 1, 2, 3, 4, 5, 6, 9]
4. Design and write a publishable case study. [PLO: 1, 2, 4, 6]
5. Demonstrate the outcome of chiropractic care in special cases, where new patient approach has been used, and share, recommend and apply new management plans. [PLO: 1, 2, 3, 4, 5, 6, 8, 9]
6. Demonstrate the role and the outcome of philosophically based chiropractic paradigm that is incorporated in the management plan of the published case studies. [PLO: 1, 2, 3, 4, 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.