

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: RCH 200 Lec. _____ Class _____ Lab _____
~~LIBR-100~~ Hrs: 1 Credits: 1 hrs: 0 Department: Physical Therapist Asst.
 Course Title: Research Applications Semester: Fall Year: Second

Course Description/Other Information:

THIS COURSE EXPANDS UPON THE FOUNDATION OF LIBRARY EXPLORATION AND BASIC RESEARCH SKILLS AND APPLIES IT TO A
 DISCIPLINE-SPECIFIC RESEARCH PROJECT. STUDENTS WILL RECEIVE A DISCIPLINE-RELEVANT TOPIC TO RESEARCH, WRITE A
 REPORT IN EITHER APA OR AMA STYLE, AND MAKE A HIGH CALIBER ORAL PRESENTAION. FACULTY WILL MENTOR STUDENTS
 THROUGH THIS PROCESS.

Course Objective	Competencies
<p>I. The foundation of scientific inquiry and elements of quality research.</p>	<p>a. Describe the scientific method and how it is applied in this discipline's research.</p> <p>b. Compare and contrast the main elements of a research study, including, but not limited to:</p> <ol style="list-style-type: none"> 1. Experimental vs non-experimental research 2. Independent vs dependent variables 3. Hypotheses 4. Reliability and validity 5. Subjects, methods, results, discussion and conclusion 6. The use of statistical analyses <p>c. Identify information included in each stafe of the scientific method.</p> <p>d. Identify components of scientific inquiry in a given article.</p>

Course Objective	Competencies
<p>II. The application of literature-based research to evidence-based practice.</p> <p>III. The relationship between evidence-based practice and reimbursement.</p> <p>IV. Group dynamics and teamwork.</p> <p>V. The application of written and oral presentation skills in the 21st century.</p>	<p>e. Given two internet sources, describe the credibility of each.</p> <p>a. Critically read a research report and identify its application to practice, to the level appropriate for this discipline.</p> <p>b. Identify various forms of publications and rate their quality and strength of support for the profession.</p> <p>c. Discuss the need for quality research in this discipline to:</p> <ol style="list-style-type: none"> 1. Establish a body of knowledge 2. Determine the efficacy of interventions 3. Improve patient or client care <p>d. Use library resources to search and obtain research reports for a given topic.</p> <p>a. Demonstrate an understanding of the need to provide interventions that are evidence-based in order for payment to be made via third party.</p> <p>a. Take responsibility for contributing as a team member within the group.</p> <p>b. Distinguish between parallel individual efforts versus team interaction.</p> <p>a. Produce a quality research paper on a given topic as a cooperating team member.</p> <p>b. Demonstrate the ability to apply the principles of APA or AMA style, including appropriate language, spelling, grammar, and syntax to produce a clear, organized written paper.</p> <p>c. Prepare and deliver, as a team member, a high quality oral presentation, using appropriate audiovisual aids.</p> <p>d. Demonstrate the ability to organize ideas logically to accurately and clearly convey meaning in both the written and oral forms.</p>