UNIVERSITY OF FLORIDA COLLEGE OF NURSING COURSE SYLLABUS FALL 2020

COURSE NUMBER NGR 7816

COURSE TITLE Quantitative Research Design and Measurement in Nursing

CREDITS 3

PLACEMENT Variable Required Core Course

PREREQUISITE None

FACULTY Gail M. Keenan, PhD, RN, FAAN

Department Chair (FCH)

Professor (R. Murray & Anabel Davis Jenks Professorship

in Nursing Excellence)

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Office hours: By appointment

COURSE DESCRIPTION This course provides the foundation for evaluating quantitative research methods and designs and developing significant and innovative programs of nursing and health research. Emphasis is on principles and techniques for analyzing and developing rigorous research methods, including sampling plans, measurement, procedures and study designs.

COURSE OBJECTIVES Upon completion of this course, the student will be able to:

1. Identify research priorities in nursing and health.
2. Analyze the relationship between clinical practice and research.
3. Examine ethical principles in quantitative research.
4. Employ standardized criteria for evaluating and developing research.
5. Analyze key components of quantitative research designs and methods, including sampling plans, measurement, procedures and study designs.
6. Evaluate various experimental and non-experimental designs.
7. Critique published research articles for design and measurement

COURSE SCHEDULE: Class will be held weekly, Tuesdays from 1:00 – 4:00 PM (HPNP G-112 & via Zoom).

Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded.  If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded.  If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

When we have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

* You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.
* This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations.
* Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
* Follow your instructor’s guidance on how to enter and exit the classroom.  Practice physical distancing to the extent possible when entering and exiting the classroom.
* If you are experiencing COVID-19 symptoms ([Click here for guidance from the CDC on symptoms of coronavirus](https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html)), please use the UF Health screening system and follow the instructions on whether you are able to attend class. [Click here for UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms](https://coronavirus.ufhealth.org/screen-test-protect/covid-19-exposure-and-symptoms-who-do-i-call-if/).
  + - * Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. [Find more information in the university attendance policies](https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/).

Video recordings are on E-Learning in Canvas and will supplement in-class time. E-Learning in Canvas is accessed by using your Gatorlink account name and password at <http://elearning.ufl.edu/>.

There are several tutorials and student help links on the E-Learning login site. If you have technical questions call the UF Computer Help Desk at 352-392-HELP or send email to [helpdesk@ufl.edu.](mailto:helpdesk@ufl.edu)

It is important that you regularly check your Gatorlink account email for College and

University wide information and the course E-Learning site for announcements and notifications.

Course websites are generally made available on the Friday before the first day of classes.

TOPICAL OUTLINE

* 1. Anatomy of a dissertation
  2. Searching the literature & systematic literature reviews
  3. Current priorities in nursing research
  4. Evidence-based practice and outcomes research
  5. Development of substantive research questions, hypotheses, purpose statements and specific aims
  6. Protection of human subjects
  7. Components of well-designed research plans
  8. Experimental and non-experimental research designs
  9. Reliability, validity and bias in research
  10. Measurement approaches
  11. Sampling methods
  12. Critiquing published research

TEACHING METHODS

Class discussion, audiovisual materials, written materials, and presentation of research proposals and written assignments.

LEARNING ACTIVITIES

Readings, viewing video-recorded lectures, participation in class discussions, research article critiques, development of an initial research proposal in which the student experiences how all the parts of the research process fit together.

EVALUATION METHODS/COURSE GRADE CALCULATION

Written assignments (6) (10 points each)\* 60%

Examination (20 points) 20% Research proposal presentation (20 points) 20%

Total= 100%

\* Feedback will be provided to the student during the next class period discussion as noted on the class schedule.

MAKE UP POLICY

Students are expected to submit assignments by the established due dates. If extenuating circumstances occur, a student must notify Dr. Keenan in a timely manner to establish a make-up plan.

GRADING SCALE/QUALITY POINTS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | 95-100 | (4.0) | C | 74-79\* | (2.0) |
| A- | 93-94 | (3.67) | C- | 72-73 | (1.67) |
| B+ | 91- 92 | (3.33) | D+ | 70-71 | (1.33) |
| B | 84-90 | (3.0) | D | 64-69 | (1.0) |

|  |  |  |  |
| --- | --- | --- | --- |
| B- | 82-83 (2.67) | D- | 62-63 (0.67) |
| C+ | 80-81 (2.33) | E | 61 or below (0.0) |

\* 74 is the minimal passing grade

For more information on grades and grading policies, please refer to University’s grading policies: <https://catalog.ufl.edu/graduate/regulations/>

COURSE EVALUATION

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

ACCOMMODATIONS DUE TO DISABILITY

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

PROFESSIONAL BEHAVIOR

The College of Nursing expects all Nursing students to be professional in their interactions with patients, colleagues, faculty, and staff and to exhibit caring and compassionate attitudes. These and other qualities will be evaluated during patient contacts and in other relevant settings by both faculty and peers. Behavior of a Nursing student reflects on the student's individual’s ability to become a competent professional Nurse. Attitudes or behaviors inconsistent with compassionate care; refusal by, or inability of, the student to participate constructively in learning or patient care; derogatory attitudes or inappropriate behaviors directed at patients, peers, faculty or staff; misuse of written or electronic patient records (e.g., accession of patient information without valid reason); substance abuse; failure to disclose pertinent information on a criminal background check; or other unprofessional conduct can be grounds for disciplinary measures including dismissal.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

Academic honesty and integrity are fundamental values of the University community.

Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>. Students are required to provide their own privacy screen for all examination’s administered to student laptops. No wireless keyboards or wireless mouse/tracking device will be permitted during examinations.

UNIVERSITY AND COLLEGE OF NURSING POLICIES:

Please see the College of Nursing website for student policies (<http://students.nursing.ufl.edu/currently-enrolled/student-policies-and-handbooks/>) and a full explanation of each of the university policies – (<http://students.nursing.ufl.edu/currently-enrolled/course-syllabi/course-policies>)

Attendance

UF Grading Policy Religious Holidays

Counseling and Mental Health Services Student Handbook

Faculty Evaluations

Student Use of Social Media

REQUIRED TEXTBOOKS

Portney, L. G., & Watkins, M. P. (2020). *Foundations of clinical research: Applications to*

*evidence-based practice (4th ed).* Philadelphia, PA: F.A Davis Company

Selected readings from current nursing research literature.

RECOMMENDED TEXT

Cook, T. D., & Campbell, D. T. (1979). *Quasi-experimentation design and analysis issues for field settings.* Boston: Houghton Mifflin.

Strunk, W. & White, E.B. (1999) The elements of style (ed 4). Harlow United Kingdom: Longman and Pearson.

WEEKLY CLASS SCHEDULE

|  |  |  |
| --- | --- | --- |
| **Class & Meeting Date** | **Topic** | **Activities to be completed AHEAD of class:**  **\*Written assignments due for week MUST be posted by 5PM Monday the day before class.** |
| Week 1 – 9.1 | Welcome, Course Overview | Be prepared to discuss:   1. Why am I seeking a research career? 2. What research questions am I interested in pursuing for my dissertation? Why?   Bring laptop to class |
| Week 2 – 9.8 | Foundations of Nursing Research I – Priorities & Ethics | Check canvas Week 2 for readings, videos (lectures and assignments) |
| Week 3 – 9.15 | Foundations of Nursing Research II – A & P of a dissertation – Searching the Literature | Check canvas Week 3 for readings, videos (lectures and assignments) |
| Week 4 – 9.22. | Defining the Research Question I | Check canvas Week 4 for readings, videos (lectures and assignments) |
| Week 5 – 9.29 | Defining the Research Question II | Check canvas Week 5 for readings, videos (lectures and assignments) |
| Week 6 – 10.6 | The Research Plan | Check canvas Week 6 for readings, videos (lectures and assignments) |
| Week 7 – 10.13 | Individual Meetings with Dr. Keenan | Check canvas Week 7 for readings, videos (lectures and assignments) |
| Week 8 – 10.20 | Research Designs | Check canvas Week 8 for readings, videos (lectures and assignments) |
| Week 9 – 10.27 | Sampling Methods | Check canvas Week 9 for readings, videos (lectures and assignments) |
| Week 10 – 11.3 | Measurement Approaches | Check canvas Week 10 for readings, videos (lectures and assignments) |
| Week 11 – 11.10 | Critiquing the Literature I | Check canvas Week 11 for readings, videos (lectures and assignments) |
| Week 12 – 11.17 | Critiquing the Literature II | Check canvas Week 12 for readings, videos (lectures and assignments) |
| Week 13 – 11. 24 | Comprehensive Exam |  |
| Week 14 – 12. 1 | Student Presentations |  |
| Week 15 – 12. 8 | Individual Meetings with Dr. Keenan |  |

Approved: Academic Affairs Committee: 10/97;01/05 Faculty: 12/97:01/05

UF Curriculum: 06/98