

SUL ROSS STATE UNIVERSITY RIO GRANDE COLLEGE
RN TO BSN COMPLETION PROGRAM
SPRING 2015

NURS 3305 NURSING RESEARCH and APPLICATION

Semester hour: 3 credit hours

Contact hour: 3 hours per week

Basic concepts, research principles, processes, and applications provide information for the role of the nurse in decision making and clinical practice. The course addresses nursing research as a means of acquiring and refining knowledge to enhance clinical judgment.

FACULTY INFORMATION

Mary J. Edwards, Ph.D., RN

Contact Information: e-mail address

Details of Office Hours:

Available by e-mail any time. I check at least twice a day

Hours available via phone after 9AM, before 9PM. Leave a message, call will be returned.

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COURSE OBJECTIVES

Each student enrolled in this course will be expected to meet course objectives that are presented within the framework of Disseminated Essential competencies of Graduates of Texas Nursing Programs. Upon completion of this course, the student will:

1. Demonstrate through discussion and writings how research and research strategies have evolved over time.
2. Identify practice issues which can be or have been impacted by analysis and implementation of research findings.
3. Discuss ideas for organizational and/or societal changes which are or may be influenced by research activity.
4. Through writings and reported clinical observation, relates selected nursing theories to Evidence-Based outcomes.
5. Evaluates quality of selected nursing research studies using critical appraisal techniques.
6. Discusses role of current technology to the development of Evidence-Based Practice with different categories of clients
7. Evaluate a plan currently in use to reduce patient/client risk factors based on Evidence-Based data.
8. Demonstrate, through the completion of course assignments, the ability to identify and access reliable online resources and quality health care sites.
9. Provide examples of research findings which have been used to develop Evidence- Based Practice for individuals, families, general populations, and communities.

Textbook and reading

Lobiondo-Wood, Geri, and Haber, Judith. Nursing Research: Methods and Critical Appraisal for Evidence-Based Practice. 8th ed., St. Louis, MO: Elsevier/Mosby 2014.

ISBN: 978-0-323-10086-1.

Publication Manual of the American Psychological Association. 6th ed. Washington, DC: APA 2010.

ISBN:10:1-4338-0561-8.

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Module Week	Topics and Objectives	Required Readings	Student assignments
<p>Module I</p> <p>Week 1 01/17/15 To 01/24/15</p>	<p>Overview of Course, Review of Syllabus, Assignments and Grading, Testing, On-Line Communication, Attributes of Textbook Florence Nightingale and Nursing Research Introducing Qualitative and Quantative Research Methods</p> <p><u>Objectives:</u></p> <ol style="list-style-type: none"> 1. Describe historical trends in nursing research 2. Explain relationship between research, E-BP, QI 	<p>LoBiondo-Wood, G., Haber, J., <u>Essentials of Nursing Research: Methods, Appraisal, and Utilization</u>. 8th ed., St. Louis, MO: Elsevier/Mosby 2014</p> <p>Selected articles to be provided</p> <p>Read chapters 1 – 3 in your textbook</p>	<p>Read chapter one several times, there are important guidelines offered. You will go back to this chapter often during the course.</p> <p>Note on page 8 the <u>Types of Research</u>, the information will be used in early assignments.</p> <p>Week 1 assignment: Florence Nightingale</p> <p>Find an article about Florence Nightingale, her impact on the profession, education, research, or other contributions. (1) Provide a brief, (100-150 words) summary of your findings. You will probably need to make some assumptions. Due by 01/25/15</p> <p><u>Submit as: Week 1, Florence Nightingale</u></p>
<p>MODULE II</p> <p>Week 2 01/25/15 to 01/31/15</p>	<p><u>Topics:</u> Relationships among Research, E-BP, & QI Gathering and Appraising the literature Theoretical frameworks, qualitative research approaches, (grounded theory, phenomenology, ethnography, and case study) Sampling, (validity, probability evaluation), informed consent, IRB, legal and ethical issues. Appraising Qualitative Research</p> <p><u>Objectives</u></p> <ol style="list-style-type: none"> 1. Explain differences between Quantative and Qualitative research designs 2. Explain systematic reviews and their purpose 3. Examine characteristics of an effective electronic literature search 	<p>Chapters 4, 6, 7, 12, 13</p>	<p>Objectives 1, 2, 3, Submit the following:</p> <ol style="list-style-type: none"> 1. Review the characteristics of each design before selection, and 2. List characteristics of: <ol style="list-style-type: none"> a. Qualitative research design b. Quantitative research design c. Systematic review d. Meta-analysis 3. Complete an electronic search which reflect areas of interest to you, articles need not all address the same topic, 4. Retrieve four articles, one of each design, identify the design. 5. Submit list of articles <p>Provide me with your choices in a format which will allow me to retrieve it for myself. (8) Work due Feb. 1st</p>

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			<u>Submit as: Week 2, Electronic Search</u>
<p>Week 3 02/01/15 to 02/07/15</p>	<p><u>Objectives:</u></p> <p>4. Apply critiquing criteria to the evaluation of a research question or hypothesis in a selected research article projects</p> <p>5. Describe relationship between theory, research, and practice</p> <p>6. Discuss the purpose of the literature review for development of E-BP and QI project</p>	<p>Week 3</p> <p>Review material on pages 51-54.</p>	<p>Read Appendix C, pages 502-517. Consider objective 5 while you do this. See Guidelines for directions for this assignment.</p> <p><u>Submit as: Week 3 Theory/E-BP</u> Due Feb 8th</p>
<p>Week 4 02/08/15 to 02/14/15</p>	<p>7. Explain how theory is used in nursing practice</p> <p>8. Describe components of qualitative research used in practice</p> <p>9. Identify four ways that qualitative research is used in practice</p> <p>10. Differentiate among the processes of phenomenological, grounded, ethnographic, and case study methods of qualitative research</p>	<p>Week 4</p>	<p style="text-align: center;">Objectives 7, 8, 9, 10</p> <p>Answer the questions raised in objectives 7, 8, & 9</p> <p><u>Post to BB, your response to one of the objectives</u> due02/08/15***</p> <p style="text-align: center;">Objective 10</p> <p>Can any of the qualitative studies from your four (4) be said to meet any of the criteria mentioned in objective 10. Support you conclusion.*** Post it before 2/7/15</p>
<p>Week 5 02/15/15 To 02/21/15</p>	<p>11. Discuss sampling: definition of terms, probability/non-probability, internal-external validity, and sampling bias</p>	<p>Week 5 Chapter 12 & 13</p>	<p style="text-align: center;">Objective 11 ,12, 13, 14, 15</p> <p>Part I, Obj. 11 Define the terms in this objective</p>

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	<p>12. Evaluate sampling process in a selected research article</p> <p>13. Discuss informed consent forms</p> <p>14. Describe the role of the IRB</p> <p>15. Identify populations of subjects which require special legal and ethical considerations.</p>	#12 use guide on p. 249	<p>Part II, Using two of the four articles, address objective ,12</p> <p>Part III, Obj. 13,14,& 15.How are these objectives evidenced in these two studies?</p> <p>Submit as Week 5 – Legal issues Due 02/22/15</p>
<p>Week 6 02/22/15 To 02/28/15</p>	<p>16. Evaluate the strengths and weaknesses of a qualitative research report.</p> <p>17. Construct a critique of a qualitative research report</p>	Week 6	<p style="text-align: center;">Objectives 16 & 17</p> <p>Select a qualitative designed research report from those four selected by you. Using the guidelines on page 135-136 evaluate the study. USE ONLY THE FIRST FIVE AND THE LAST TWO CATEGORIES TO MEET THIS ASSIGNMENT. (5)</p> <p>Submit as Week 6, Critique – Qualitative Research Due by March 03/07/15. You may hand in a hard copy at the class meeting</p>
Week 7		CLASS MEETS IN UVALDE MARCH 7TH, 2015	Possibly a short quiz, and/or presenting the work that you have just turned in.
Module III			
Weeks 8 -10	Quantitative Research, Fidelity & Validity, Research designs, non-experimental designs, systematic reviews, clinical practice guidelines, sampling, data collection methods, reliability and validity.	Chapters 8, 9, 10, 11	

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<p>Week 8 03/08/15 To 03/14/15</p>	<p>Objectives:</p> <ol style="list-style-type: none"> 1. Identify elements that affect <u>fidelity and control</u> in the research design and study outcomes 2. Define <u>Internal and External Validity</u> and the threats to them or conditions that affect them. <p style="text-align: center;">SPRING BREAK 03/15/TO 03/21/15</p>	<p style="text-align: center;">Chapter 8</p>	<p>Objectives 1,2, 6, 7 Define <u>fidelity and control</u> and apply to the quantitative study from your four (4) articles. Objective 3 Examine the four (4) articles chosen for evidence of <u>Internal and External Validity</u>. Explain what the terms mean and how they were determined. What impact do those elements have on the value of the study? Submit your conclusions, as. Week 8 – Validity, due 03/15</p>
<p>Week 9 04/23 to 04/29</p>	<ol style="list-style-type: none"> 1. Describe other types of research design, (experimental, quasi-experimental, non-experimental), their strengths and weaknesses 2. List criteria for inferring cause-effect relationships 3. Describe similarities and differences among survey, relationship/difference, and other research designs 4. Discuss purposes of a systematic review, meta-analysis, integrative review, and clinical practice guidelines 5. Evaluate an “in-use” clinical practice guideline 	<p style="text-align: center;">Week 9 Chapters 9, 10,11, 14, 15</p>	<p>Objectives 3, 13, 14 Part I: Do any of your articles meet the characteristics of other types of research design, (experimental, quasi-experimental, and non-experimental). Describe the strengths and weaknesses of these other designs. Part II, Differentiate between the terms in objective 2 and those in objective 13. Submit as <u>Week 9 Assignment, part 1 and part 2.</u> Due 03/29/15 Follow the directions provided in “general guidelines for written assignment” for the completion of objective 7. <u>Submit as Clinical Guidelines, Week 9</u> Due 03/29/15</p>

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	<ol style="list-style-type: none"> 6. List the advantages and disadvantages of different types of data collection methods. 7. Compare the different collection methods for their contribution to the strength of the evidence in a research study. 8. Identify the source of bias related to data collection. 9. Define <u>intervention fidelity</u>. 10. Apply critique criteria to data collection methods of a selected research study. 11. Define <u>reliability and validity</u>, why is it an important consideration? 12. How is reliability and validity established? 	<p style="text-align: center;">Week 10</p> <p style="color: red;">Prepare a critique of a published nursing research report</p>	<p>Objectives 8,9,10 Address the three objectives, as they apply to two of your selected studies. Submit by 4/11/15</p> <p style="color: red;">Submit a completed critique of one of the five selected studies. This should include all appropriate citations in proper format. Use an appropriate critique format found in the textbook</p> <p style="text-align: center;">Due before Saturday. May 2nd</p>
<p>Weeks 11 -15</p>	<p>Data Analysis, descriptive and Inferential Statistics, Understanding Research Findings, Evidence-Based Practice</p>	<p>Chapters 16, 17</p>	
<p>Weeks 11-& 12 04/06/15 to 04/19/15</p>	<p><u>Objectives:</u></p> <ol style="list-style-type: none"> 1. Differentiate between descriptive and inferential statistics 2. Describe four levels of measurement 3. Describe frequency distributions, 4. Describe the concept of probability as it applies to the analysis of data 5. What is a null hypothesis 6. List several commonly used statistics to be 	<p style="text-align: center;">Week 11 -12</p>	<p>Objectives 1 – 6 Using the four (4) selected articles find examples that address the six objectives. Submit two of your responses as Week 12, Statistics by 4/19/15</p>

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<p>Weeks 13 & 14 04/20/15 to 05/06/15</p>	<p>found in published nursing research</p> <p><u>Objectives</u></p> <ol style="list-style-type: none"> 7. Develop a focused clinical question using the PICO approach. 8. Identify a plan in use to reduce patient/client risk based on E-BP 9. Discuss the applicability, or non-applicability, of selected research studies to nursing practice. Be prepared to defend the position 10. States the reason for the use of E-BP in the clinical setting. 	<p>Weeks 13 – 14</p> <p style="text-align: center;">CLASS MEETS IN UVALDE MAY 9TH, 2015</p>	<p>Objective 7, Discuss the applicability of the research findings, in two the studies, to nursing practice? Submit your response by 4/26/15 as Week 14, E-BP Post your opinion of the/ weakest of the studies with your support.</p> <p>Post a <u>focused clinical</u> question using the PICO approach for classmates to critique.</p> <p>On the discussion Board provide an opinion of the “what and why” of E-BP. How do you find it operationalized in your setting. POST by May 6th</p> <p>Last class day, activities TBA</p>
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