

DH 323 Research Methods Western Kentucky University

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Office Hours: Email is the best way to contact me. Please feel free to email me with any questions or concerns, I will reply to your email within 48 hours.

Course Information

Course Prerequisites: Completion of Associate in Applied Science in Dental Hygiene from a CODA Accredited Dental Hygiene Program. Admission into the Bachelor of Science Degree completion program with a minimum GPA of 2.8

Prerequisites: DH 303, PH 383 or permission of instructor.

Credit Hour: 3.0

Catalog Description

This course involves study of the research process and its application to dental hygiene education and practice. Emphasis will be placed on critical analysis of selected research in dental hygiene and dentistry, including theory of research design, bibliographical and data gathering technique, and interpretation of results. Additionally, this course emphasizes current research evidence in healthcare decision-making, an activity known as evidence-based practice. Topics will also include Biostatistics and application of EBP to healthcare.

Textbook/Course Materials

Required Textbook: Howlett BH and Rogo EJ, Shelton TG. Evidence Based Practice for Health Professionals: An Interprofessional Approach. 2013; New York Jones & Bartlett Publishing. ISBN# 9781449652777

Description of Course and Assignments:

The basis for this course is to explore the basic concepts of evidence-based practice with a clinical emphasis. Evidence-based practice is a translational form of critical thinking. This means that the theoretical skills and concepts of critical thinking are translated into real-world applications. Evidence-based practice is a lifelong learning activity that is utilized throughout a dental hygienists' professional career.

Detailed instructions for completion of each course assignment will be provided in Blackboard. In the event, course announcements or other important course information is sent out it will be done through Blackboard or via WKU Topper Email.

Special Materials Needed for the On Demand/Online Student

Access to a computer (preferably your own) with a reliable Internet connection
Adobe Acrobat Reader (a free download from Adobe.com)
Additional technical requirements can be found in the Technical Requirements course menu link in the Blackboard course

BLACKBOARD HELP/WKU IT HELP DESK (270) 745-7000 Please contact the IT Help desk if you have any difficulties with Blackboard

New to Blackboard?

If you have not used Blackboard as a student or if this your first online class, I would highly recommend signing up for and completing the Blackboard Student User Training. These are topical modules that can be beneficial.

To sign up, go to Blackboard and sign in, and click the IT Training tab (top, toward the right, black with white writing). Look for IT Blackboard Student User Training...you will gain instant access upon signing up. This not required, but it could be very helpful for you and important for your success in this course as well as others!

[WKU Distance Learning Student Resource Center](#) for additional information.

Location/Synchronicity Requirements

This course will be taught as an ON DEMAND course but will be accessed online/WEB through WKU's Blackboard with no face-to-face or synchronous meetings. All required work will be completed online.

Course Goals:

1. locate, appraise, and integrate evidence that relates to individual patient and public health problems;
2. apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other healthcare-related information;
3. utilize information technology to manage information, access on-line healthcare information, and support your lifelong professional education; utilizes information from multiple professions and demonstrates a belief in the importance of inter-professional collaboration.

Course Outcomes:

1. define common statistical applications used in healthcare-related studies
2. interpret common statistical applications used in healthcare-related studies;
3. formulate patient-/population-centered focused search questions;
4. perform focused information searches that address the focused question;
5. identify relevant, reliable sources of healthcare information in the areas of epidemiology, prevention, diagnosis, treatment, prognosis, and patient education;
6. apply critical thinking skills to support healthcare related decisions at individual, family, organizational, and community levels;
7. identify and discuss research and publication bias in healthcare information;
8. describe ethical considerations relevant to the performance and reporting of healthcare research;
9. Synthesize knowledge of the scientific research process and how it applies to oral health investigations.
10. communicate about clinical research to achieve effective exchange of information and collaboration with patients, their families, other health professionals, and healthcare-related public and private organizations;
11. identify the type of research performed in a study based on the description given in a publication;
12. evaluate the quality of healthcare-related information

Grading/Evaluation: grading scale adopted by the Program of Dental Hygiene in the Department of Allied Health will be utilized in this course. Students must maintain an average of "C" or better in each dental hygiene course. This is for informational purposes only; all official requirements are in the undergraduate catalog or listed in your iCAP.

Grading Scale:

- A 92.0% to 100%
- B 83.0% to 91.0%
- C 74.0% to 82.0%
- D 65.0% to 73.0%
- F Below 65.0%

GRADING:

- 20% Quizzes (Post Reading Knowledge Check)
- 30% Assignments
- 25% Mid-term Exam
- 25% Final Exam

Graded Activities:

Post- Reading Knowledge Checks (100 points possible).

Chapter Assignments: (100 points possible)

Mid-term Exam (100 points possible). Exam will include information presented in Module 1, 2, 3, 4 & 5

Final Exam (100 points possible). Exam will be drawn from information presented in Module 6,7,8, &9.

Your course grade will be based on the work outlined in this syllabus and schedule. Grades are always available on Blackboard (My Grades). **To complete this course, you must complete each assignment, activity and examination. Each must be submitted for grading prior to the end of the course in order to obtain a final grade.**

Reading Textbook Chapters:

To successfully complete this course, it is mandatory for course participants to read each chapter assigned from the textbook. Reading the textbook helps the student explore the basic concepts of evidence-based practice with a clinical emphasis. Practice exercises are included to provide applied learning experiences.

Post Reading Knowledge Checks:

There will be Post-Reading Knowledge Checks with every chapter assigned to read in the text. The Post-Reading knowledge checks are posted in Blackboard, which requires a computer with internet access, Windows operating system, and Internet Explorer. The Reading checks will assess your understanding of the assigned reading. The Post-Reading knowledge checks reward you for the effort you invest in the readings and will aid you in studying for the Mid-term and Final exams.

PowerPoint Presentations(ppt)

The PPT presentations in this course are provided as an adjunctive resource of information to the participants and are *not required* reading. However, student may find them beneficial in their understanding of the textbook chapter information. Within each PPT additional material beyond the content of the chapter may be included to reinforce the concepts in the chapter. Several of the chapter PPT presentations include slides with active learning strategies to be completed by the student. The questions or activities are again meant to enhance the concepts presented in the chapter.

Chapter Assignments:

As part of the completion of each assigned chapter there will be an assignment consisting of questions or activities to complete and submit for grading. These activities are designed to enrich the student's understanding of the chapter material read and enable the student to apply concepts to evidence-based practice.

Mid-Term Exam:

Prior to setting for the Mid-term exam, the student must have completed and submitted Modules 1, 2, 3, 4 and 5. In accordance with the guidelines of WKU 's On Demand department, the Mid-term exam for this course will be a proctored examination. The student is responsible for making arrangements with a testing site location in their area, appointment date for the examination and notification of proctored exam location and date must be provided to the WKU 's Office of On Demand.

Final Exam:

Prior to setting for the final exam, the student must have completed and submitted Modules 6, 7, 8, and 9. The final exam will be administered through the course Blackboard site. It will NOT be a proctored examination. Computer and Internet access will be required to complete the final exam. The student will be provided ample time to complete the exam.

COURSE POLICIES:

Attendance Policy:

There is no formal attendance policy, you will be expected to complete assignments according to the course Modules.

Late Work/Make Up Work:

You are expected to complete all course work in this course. **Each Graded Activity must be completed and submitted prior to the end of the course.** If unexpected life events happen and circumstances are beyond your control, please contact the instructor or the office of ON DEMAND as soon as possible. No work will be accepted after the end date of this course.

Academic Integrity Policy:

Please read the policy on this topic located in the [WKU's Undergraduate catalog](#): Violating this policy in this specific course may result in a failing grade on the assigned research project. Please note that this topic and Ethical Principles in Research will be discussed at length as a component of this course and further material will be provided on the subject of Academic Integrity.

Respectful Behavior and General Civility:

As the instructor of this course, I pledge to treat each course participant with respect and dignity. I believe in treating others as I wish to be treated. I would like for all course participants to feel free to express their thoughts, ideas and beliefs openly and honestly in the spirit of intellectual exchange. Differences in viewpoints or opinions may be present but valuing other people is always foremost. Abuse or violation of this mutual respect will be dealt with on an individual basis.

ADDITIONAL INFORMATION:

ADA Accommodation Statement

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX Misconduct/Assault Statement

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding [WKU's Title IX Sexual Misconduct/Assault Policy \(#0.2070\)](#)

[Discrimination and Harassment Policy \(#0.2040\)](#)

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

*Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and **MUST** report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.*

[The Learning Center \(TLC\)](#)

Should you require academic assistance with your WKU courses, The Learning Center (located in the Downing Student Union, 2141) provides free supplemental education programs for all currently enrolled WKU students. The Learning Center at Downing Student Union offers certified, one-on-one tutoring in over 200 subjects and eight academic skill areas by appointment or walk in. Online tutoring is offered to distance learners. TLC is also a quiet study area (with side rooms designated for peer-to-peer tutoring) and a computer lab to complete academic coursework. Please call TLC in the Downing Student Union at (270) 745-5065 for more information or to schedule a tutoring appointment.

DH 323 Research Methods ON DEMAND

Suggested Course Schedule

Below you will find a suggested course schedule to help you organize your studies. This schedule is meant as a guideline to help those who need to complete their course in a certain timeframe.

| Need to finish your course within a semester? Here is a suggested course schedule: | | |
|--|-------------|---------------------|
| Week | Assignments | Exams |
| 1 | Module 1 | |
| 2 | Module 2 | |
| 3 | Module 3 | |
| 4 | Module 4 | |
| 5 | | |
| 6 | Module 5 | |
| 7 | | Midterm Examination |
| 8 | Module 6 | |
| 9 | | |
| 10 | Module 7 | |
| 11 | | |
| 12 | Module 8 | |
| 13 | | |
| 14 | Module 9 | |
| 15 | | Final Examination |

DH 323 Research Methods Course Outline:

| Module | Objectives | Topics | Activities for This Module |
|--------|-------------------------|--------------------------------|---|
| | Outlined in each Module | Orientation to course | Course Introduction: Watch the Welcome Video Read the Syllabus Notify Instructor by email |
| 1 | | What is EBP? Why it Matters. | Read Chapter 1 Complete Reading Knowledge Check Review PPT Presentation and Complete Activities Watch Video |
| 2 | | Health Care Research Methods | Read Chapter 2 Complete Reading Knowledge Check Review PPT Presentation and Activities |
| 3 | | Ethical Principles in Research | Read Part II in Text Pgs 185 -191 Review PPT Presentation Read: Belmont Report View Movie: Miss Evers' Boys Complete Reflection Paper |
| 4 | | WKU Library Tutorial | Access WKU Library Tutorial Complete Assignment |
| 5 | | Locating Relevant Evidence | Read Chapter 4 Complete Reading Knowledge Check Review PPT Presentation and Activities |
| | | Mid-Term Exam | |
| 6 | | Descriptive Statistics | Read Chapter 5 Complete Reading Knowledge Check Review PPT Presentation and Complete Activities |
| 7 | | Inferential Statistics | Read Chapter 6 Complete Reading Knowledge Check Review PPT Presentation and Complete Activities |

SYLLABUS

| Module | Objectives | Topics | Activities for this Module |
|--------|------------|--|--|
| 8 | | Evidence-Based Practice in Assessment & Diagnosis | Read Chapter 8 Complete Reading Knowledge Check Review PPT Presentation and Complete Activities |
| 9 | | Implementation and Evaluation in Evidence-Based Practice | Read Chapter 11 Complete Reading Knowledge Check Review PPT Presentation and Complete Activities |
| | | Final Exam | Final Exam |