

DHYG 4840 - Directed Dental Hygiene Research

Fall 2026 Syllabus, Section 01, CRN 41231,

Credit hours: 3

Instructor

Jennifer Pieren

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Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications: 2011; MS, Dental Hygiene Education; University of Missouri- Kansas City School of Dentistry; 2004; BSAS; Allied Health; 2000 AAS; Dental Hygiene; Youngstown State University

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Course Description

4840. Directed Dental Hygiene Research. Development of research skills including problem identification, development of a hypothesis, research design, data collection, analysis, and interpretation. Approved dental hygiene topics will be completed as a group under faculty supervision. Prereq.: AHLT 4806. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Articles, websites, videos and research resources posted in the Weekly Modules.	Various	
Optional	Understanding Nursing Research: Building an Evidenced Based Practice (8th ed.)	Grove, S. K., Gray J.R.	9780323826419

No required textbook.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Thu	8/27	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Review the syllabus; Explain Proposal Process; Introduce writing research purpose and questions; Working collaboratively and peer grading	
Thu	9/3	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Introduction to writing a research proposal; Review Human Subjects Training and importance of ethics in research; Determine weekly team leads	Research purpose and questions due. (Submit in assignment dropbox by Sunday, September 6, 11:59 pm). Peer and Self Grades due. (Submit in assignment dropbox by Sunday September 6, 11:59 pm).



Thu	9/10	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Human Subjects Research Training Due (CITI training); Review examples of methodology and instrument design; Review forms for peer review	Research Proposal due for peer review. (Submit to discussion board by Sunday, September 13 by 11:59 pm). Submit CITI training certificate (Submit to assignment drop box by Sunday September 13, 11:59 pm)
Thu	9/17	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Critically analyzing levels of evidence and research methodology; Preparing methodology; Introduce Cayuse Human Ethics process at YSU	Peer feedback on research proposal due. (Post in same discussion thread in discussion board by Thursday September 17, 9:00 am)
Thu	9/24	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Review Cayuse Human Ethics process; Validity and Reliability	Cayuse Human Ethics application due for peer review (Post to Blackboard discussion board by Sunday September 27, 11:59 pm) Submit revised research proposal for grading (Submit to assignment drop box by Sunday September 27, 11:59 pm) Peer and self grades due. (Submit to assignment drop box by Sunday Sept. 27, by 11:59 pm)
Thu	10/1	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Literature Reviews and process	Peer feedback on Cayuse Human ethics application due. (Post in same discussion thread in discussion board on Thursday, October 1 by 9:00 am)
Thu	10/8	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	IRB; Cayuse Human Ethics	Submit revised Cayuse Human Ethics application for grading (Submit to assignment drop box by Sunday October 11, 11:59 pm) Submit Cayuse Human Ethics application to Human Subjects Review Committee with permission of instructor (To be determined) Peer and self grades due. (Submit to assignment drop box by Sunday October 11, 11:59 pm)
Thu	10/15	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Preparing a comprehensive literature review; Understanding statistics in literature	Submit Literature review for peer feedback. (Post to Blackboard discussion by Sunday October 18, 11:59 pm) All articles due (Post to Blackboard discussion by Sunday October 18, 11:59 pm) Peer and self grades due. (Submit to assignment drop box by Sunday October 18, 11:59 pm)
Thu	10/22	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Levels of Evidence, Primary and Secondary sources; Writing a comprehensive research report October 25, 2026 Last day to withdraw with a "W"	Peer feedback on literature review due. (Submit to Blackboard discussion by Thursday October 22, 9:00 am)
Thu	10/29	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Introduction to data collection and statistical analysis	Submit completed literature review for grading. (Submit to assignment drop box by Sunday November 1, 11:59 pm) Peer and self grades due. (Submit to assignment drop box by Sunday November 1, 11:59 pm)
Thu	11/5	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Data collection and Statistical analysis	



Thu	11/12	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Data collection and Statistical analysis; Review SPSS and analysis options; Introduction to Integrating findings and literature into conclusions; Summarizing results and presenting conclusions and discussion; Appropriate representations of Findings and Conclusions. Research "suggests"	Abstract, Methods, Results, Discussion/Conclusions due for peer feedback (Post to Blackboard discussion by Sunday November 15, 11:59 pm) Peer and self grades due. (Submit to assignment drop box by Sunday November 15, 11:59 pm)
Thu	11/19	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Illustrating research findings; Writing the final report: Abstract, literature review, methods, results, discussion, conclusions, references; Professional Presentation Expectations	Review PPT draft during weekly meeting with faculty. Peer feedback due on Abstract, Methods, Results, Discussion/Conclusions (Post to Blackboard discussion by Thursday, November 19, 9:00 am)
Thu	11/26	No Class		
Thu	12/3	Read assigned contents in the weekly folder, including upcoming assignment examples and rubric	Student Presentations	Final Research project due for grading (Submit to assignment drop box by Tuesday, December 1, 11:59 pm)** Submit PPT used for presentation for grading. (Submit to assignment drop box by Thursday December 3, 11:00 am)** Peer and self grades due. (Submit to assignment drop box by Sunday December 6, 11:59 pm)
Thu	12/10		Review of Capstone/Research Project, Next Steps - Dissemination of Results - Quest; Retention of Research Records	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.