

D H 350C: DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT III

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2024
Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Students will be able to write a comprehensive literature review on their topic.
- Students will be able to submit an online poster of their capstone project.

Description

The third in a series of three capstone courses; continuation of D H 350B. In this final course, students will complete writing their literature reviews, including an abstract, and create an online poster highlighting the key findings of their literature review. Basic writing principles as well as techniques for scientific writing will be discussed. Writing an abstract will also be discussed. Scientific communication methods with an emphasis on poster presentation techniques will be explored. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- Understand the basic principles and concepts of scientific writing.
- Write a literature review following the outline they created in D H 350B.
- Write an abstract summarizing the key findings of their literature review.
- Create an online poster highlighting the key findings of their literature review.

Course Content

- Writing a scientific paper
 - Abstract
 - Abstracts for descriptive papers
 - Introduction to the problem
 - Purpose
 - Overall findings
 - Conclusion
 - Writing a title
 - Content of title
 - Concise and descriptive title

- Basic principles of writing
 - Sentence and paragraph structure
 - Linking key terms
 - Transitions
 - Plagiarism
 - Parallel form
- Techniques for writing a scientific paper
 - Paraphrasing
 - Summarizing
 - Quoting
 - Citation pattern
 - Use of acronyms
- Foregrounding writer's voice
 - Writer's voice
 - Organization of the text
 - Summary of source material
 - Making connections between citations
 - Making connections between cited authors and with the current research
 - Choice of citation pattern
- Editing process
 - Writing a first draft
 - Distinguishing between research findings and other sources or information
 - Comparing new findings and an existing theory
 - Contribution of current research to existing theory
 - Incorporating formative feedback
 - Evaluative strategies
 - Continuing process
- Scientific communication
 - Poster presentation
 - Purpose
 - Types of posters
 - Guidelines for creating posters
 - Critiquing posters
 - Other types of scientific communication
 - Presentations
 - Oral briefing
 - Conference presentations
 - Talks to community members
 - Table clinics
 - Round table discussion
 - Displaying data
 - Bar graphs
 - Pie chars
 - Line graphs
 - Tables
- Evaluation of project outcomes
 - Types of evaluation
 - Formative
 - Summative
 - Reflection
- A systematic literature review
 - Process of conducting a systematic literature review
 - Appraisal of a systematic review
 - A systematic review in the field of dentistry

Lab Content

Not applicable.

Special Facilities and/or Equipment

On-going access to a computer or personal device with internet. This course is taught online.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Weekly written assignments
Participation in discussions
Submission of the literature review and poster

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Course material delivered online in modules - reading materials and video
Weekly written feedback
Online discussions
Annotated feedback on the literature review

Representative Text(s) and Other Materials

Galvan, J.L., and M.C. Galvan. Writing Literature Reviews, 7th ed.. 2017.

Ridley, Diana. The Literature Review, 2nd ed.. 2012.

Although the Ridley text is older than the suggested "5 years or newer" standard, it remains a seminal text in this area of study.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- A. Literature review: Write an 8-10 page literature review incorporating 25 scholarly resources (compiled over the 3 quarters) on the subject.
- B. In 250-300 words, write an abstract including the following components: introduction to the overall problem, purpose of your literature review, overall findings, and the conclusion.
- C. Peer review: provide feedback on your peer's online poster based on the criteria given.
- D. Read the 10 page "Paraphrase Tutorial" and answer the questions on page 10.

Discipline(s)

Dental Technology