### COURSE SYLLABUS

**Course Title:** Dental Hygiene Research Seminar  
**Department:** Allied Health  
**Curriculum:** Dental Hygiene  
**Course Code:** DHY*269  
**Course Type:** M  
**Prerequisites:**  
- C or better in Dental Hygiene II Theory (DHY*239) AND Dental Hygiene II Clinic (DHY*240).  
**Corequisites:**  
- Dental Hygiene III Theory (DHY*259), Dental Hygiene III Clinic (DHY*260)  
**Other Requirements:**  
- None  
**Ability-Based Education (ABE) Statement:**  
At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students’ success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability.  
**Catalog Course Description:**  
Provides an introduction to research and its relationship to theory development of the dental hygiene knowledge base, furthering its translation into clinical and community practice. This course focuses on research concepts and methodologies needed to interpret and critically review research studies and articles.  
**Topical Outline:**  
1. Oral health research, science and scientific method  
2. Performing a literature search  
3. Types of research and approaches to it  
4. Control of confounding effects  
5. Research design  
6. Sampling: purposes, types and their relationship to study design and bias  
7. Data interpretation
**Outcomes:**
Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.

Upon successful completion of this course, the student will be able to do the following:

1. use critical inquiry and accepted standards for evaluating research trials, observational studies and systematic reviews, to evaluate current research on oral health products, techniques, treatment modalities, and issues related to disease risk
2. identify strengths and weaknesses in published research articles
3. demonstrate the ability to utilize technology to locate research articles in scientific journals
4. evaluate the quality of research articles as they relate to the level of journal sponsorship
5. prepare a scientific literature review

*Students must achieve a minimum of 75% (C) for successful completion of this course.*

**PROGRAM:**  
(Numbering reflects Program Outcomes as they appear in the college catalog)

**GENERAL EDUCATION:**  
(Numbering reflects General Education Outcomes as they appear in the college catalog)

5. Information Literacy/Continuing Learning - Students will be able to use traditional and digital technology to access, evaluate, and apply information to the needs or questions confronting them throughout their academic, professional, and personal lives.

-Demonstrates: Collects and synthesizes relevant and authoritative information resources appropriate to need and audience and utilizes current technologies to solve problems, complete projects, and make informed decisions.

-Does Not Demonstrate: Does not collect and synthesize relevant and authoritative information resources appropriate to need and audience nor satisfactorily utilize current technologies to solve problems, complete projects, and make informed decisions.

**Evaluation:**
List how the above outcomes will be assessed.

Assessment will be based on the following criteria:
- Literature Review
- Quizzes
- Assignments

**Instructional Resources:**
List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.

- **Required**
  - Related scientific printed and on-line journals
  - Library access

- **Desired:**

**Textbook(s)**