

## Competency-to-Evaluation Mapping Matrix

The Amarillo College Dental Hygiene Program has established clearly defined graduation competencies that outline the knowledge, clinical skills, and professional values expected of all students upon completion of the program. These competencies serve as the foundation for curriculum development, instruction, and student assessment.

Each component of the dental hygiene curriculum is designed to support the development and mastery of these competencies. Students engage in diverse learning experiences that build progressively toward entry-level competence.

To ensure students achieve these outcomes, the program utilizes a variety of evaluation methods, including both process-based and end-product assessments. These methods include, but are not limited to: written examinations, clinical and lab performance evaluations, case-based assessments, reflective assignments, and formal competency evaluations.

All graduation competencies and the tools used to assess them are documented, reviewed regularly, and clearly communicated to students through the Program Handbook, Course Syllabi, Clinical Manuals, Faculty Advisement, and the Amarillo College Dental Hygiene Program website. This ensures that students understand performance expectations and how they will be assessed throughout the program.

The following section outlines the program's graduation competencies and indicates where each is introduced, reinforced, and evaluated across the curriculum.

<b>Competencies and Where They Are Measured</b>
<b>Competency 1:</b> <b>Demonstrate systematic planning and management of patient treatment using the Dental Hygiene Process of Care</b>  <b>Measured In:</b> <ul style="list-style-type: none"><li>• DHYG 1227 – Preventive Dental Hygiene Care: <i>Preventive Periodontal Plan Project</i></li><li>• DHYG 1260, 1360, 2260, 2360 – Clinical Dental Hygiene I–IV: <i>TalEval Clinical Evaluations</i></li></ul>
<b>Competency 2:</b> <b>Recognize medical and dental conditions requiring special precautions before treatment</b>  <b>Measured In:</b> <ul style="list-style-type: none"><li>• DHYG 2201 – Dental Hygiene Care I: <i>Special Needs Research Paper</i></li><li>• DHYG 1360 – Clinical II: <i>Case Study Project</i></li><li>• DHYG 1227 – Preventive Dental Hygiene Care: <i>Interdisciplinary Communication Case Study</i></li><li>• DHYG 1331 – Preclinical: <i>Medical History Assignment</i></li></ul>
<b>Competency 3:</b> <b>Analyze and interpret assessment data to formulate a dental hygiene diagnosis</b>  <b>Measured In:</b> <ul style="list-style-type: none"><li>• DHYG 1227 – Preventive Dental Hygiene Care: <i>Periodontal Plan Project</i></li><li>• DHYG 1260, 1360, 2260, 2360 – Clinical I–IV: <i>TalEval Clinical Evaluations</i></li></ul>

**Competency 4:****Provide oral healthcare across all life stages and periodontal classifications****Measured In:**

- DHYG 2360 – Clinical IV:
  - *Child, Adolescent, Adult, Geriatric, and Special Needs Competency Evaluations*
  - *Early, Moderate, and Advanced Periodontal Disease Management Competencies*

**Competency 5:****Develop health promotion and disease prevention activities for diverse populations****Measured In:**

- DHYG 1227 – Preventive Dental Hygiene Care: *Cultural Diversity Project*
- DHYG 1215 – Community Dentistry:
  - *Community Service-Learning Project*
  - *Interdisciplinary Communication Project*

**Competency 6:****Critically and effectively synthesize scientific information****Measured In:**

- DHYG 1207 – General and Dental Nutrition:
  - *Abstract Paper*
  - *Nutritional Counseling Project*
- DHYG 1360 – Clinical II: *Nutritional Counseling Evaluation*
- DHYG 2260 – Clinical III: *Tobacco Cessation Evaluation*
- DHYG 2360 – Clinical IV: *Case Presentation*

**Competency 7:****Analyze and apply oral health research to dental hygiene practice****Measured In:**

- DHYG 1215 – Community Dentistry: *Epidemiology Research Paper*
- DHYG 2201 – Dental Hygiene Care I: *Special Needs Research Paper*

**Competency 8:****Demonstrate professionalism, self-responsibility, and ethical behavior****Measured In:**

- DHYG 1331, 1260, 1360, 2260, 2360 – Preclinical & Clinical I–IV:
  - *Ethics and Professionalism Chapter Assessments*

**Competency 9:****Participate in remediation, demonstrate clinical competence, and complete the HESI capstone review****Measured In:**

- DHYG 1331 – Preclinical: *Instrument Practicum (Typodont)*
- DHYG 1260 – Clinical I: *Instrument Entrance/Exit Exams*
- DHYG 2260, 2360 – Clinical III & IV: *Clinical Mock Board Evaluations*

- DHYG 1304 – Radiology: *Exit Exam*
- DHYG 2360 – Clinical IV: *HESI Capstone Exam*

**Competency 10:**

**Deliver educational services using effective communication strategies through service learning**

**Measured In:**

- DHYG 1215 – Community Dentistry:
  - *Student Self-Project*
  - *Community Service Learning*