

Course Assessment Report
Washtenaw Community College

Discipline	Course Number	Title
Dental Assisting	112	DEN 112 04/27/2017- Dental Materials
Division	Department	Faculty Preparer
Health Sciences	Allied Health	Kathleen Weber
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Identify concepts and principles related to the properties and uses of common dental materials.

- Assessment Plan
 - Assessment Tool: Final exam
 - Assessment Date: Winter 2016
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: answer key
 - Standard of success to be used for this assessment: 80% or more of the students will correctly answer each item. Items with scores lower than 80% will be targeted for review.
 - Who will score and analyze the data: Faculty assigned to teach the course will analyze the data.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2016, 2015, 2014		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
82	37

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

There may be duplicates due to the labs. 37 students completed the final.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students that completed the final were assessed.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The assessment tool was a final exam consisting of multiple choice and true/false items. The exam was scored through Blackboard and an item analysis was generated.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

2016 - 89% scored 89% or higher overall. 22 out of 100 questions were targeted for review - 78% of the questions were answered correctly by 80% of the students

2015 - 100% scored 85% or higher overall. 14 out of 100 questions were targeted for review - 86% of the questions were answered correctly by 80% of the students.

2014 - 88% scored 85% or higher overall. 17 out of 100 questions were targeted for review - 83% of the questions were answered correctly by 80% of the students.

In 2 of the 3 years, the overall standard of success was met. As the standard of success reads per the master syllabus, there would be no questions targeted for review. Thus, the standard of success was not met.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students showed a basic understanding of a majority of the course content.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The level of comprehension seems to diminish as the concepts become more abstract. In order to bridge that gap, labs need to focus on concepts, as well as project completion.

Outcome 2: Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.

- Assessment Plan
 - Assessment Tool: Laboratory evaluation
 - Assessment Date: Winter 2016
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: Departmentally-developed rubric
 - Standard of success to be used for this assessment: 90% or more of students will score 84% or higher on their first attempt.
 - Who will score and analyze the data: Departmental faculty will score and analyze the data.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2015, 2014, 2016		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
82	37

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

There may be duplicates due to the labs. 37 students completed the laboratory projects.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students that completed laboratory projects were assessed.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

An evaluation form is used indicating a list of criteria for each project.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

2016 - 100% scored 92% or higher overall

2015 - 100% scored 90% or higher overall

2014 - 94% scored 84% or higher overall

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

A majority of the students performed well on all course projects.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Appropriate utilization of time is a continual issue in the labs. Students tend to wait for direction from faculty and are not coming to lab prepared. Faculty will provide additional direction to students in order to assist with time management.

II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

The course is meeting the needs of the students as displayed in their clinical rotations. While there were no surprises, the faculty has realized that the students must be held more accountable.

- Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

The faculty completed this assessment together and will work towards completing the action plan.

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Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Other: Daily evaluation	<p>An evaluation form will be completed to use during each lab day. Points will be given for the following:</p> <p>Time management</p> <p>Team work</p> <p>Infection prevention and safety</p> <p>Preparedness</p> <p>Following grooming guidelines</p>	<p>Students will be held accountable for each lab day and prepare them for the daily evaluations in their clinical rotations.</p>	2017

- Is there anything that you would like to mention that was not already captured?

5.

III. Attached Files

[Assessment Data](#)

Faculty/Preparer: Kathleen Weber **Date:** 04/27/2017

Department Chair: Connie Foster **Date:** 04/27/2017

Dean: Valerie Greaves **Date:** 04/27/2017

Assessment Committee Chair: Michelle Garey **Date:** 09/27/2017

**Course Assessment Report
Washtenaw Community College**

Discipline	Course Number	Title
Dental Assisting	112	DEN 112 06/23/2014- Dental Materials
Division	Department	Faculty Preparer
Math, Science and Health	Allied Health	Kristina Sprague
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Identify concepts and principles related to the properties and uses of common dental materials.

- Assessment Plan
 - Assessment Tool: Final exam
 - Assessment Date: Winter 2011
 - Course section(s)/other population: all
 - Number students to be assessed: all
 - How the assessment will be scored: Items are scored against an answer key
 - Standard of success to be used for this assessment: 80% or more of the students will correctly answer each item. Items with scores lower than 80% will be targeted for review.
 - Who will score and analyze the data: Faculty assigned to teach the course will analyze the data.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2013		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
42	18

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal,

or did not complete activity.

All students that completed the final exam were assessed. (Students were counted twice; once for the lecture and once for the lab.)

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students that completed the final exam were assessed.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The final exam was scored in BlackBoard and an item analysis was generated.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

The standard of success was 80% or more of the students will correctly answer each question. Items with scores lower than 80% will be targeted for review. There were 12 questions that were targeted for review. Thus the standard was not met.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The students showed a basic understanding of a majority of the course content.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

A majority of the items targeted for review pertained to dental cements. These, as well as all frequently missed questions, will be reviewed and additional in-class activities added in order to improve the students' comprehension.

Outcome 2: Manipulate dental materials and produce clinically acceptable laboratory projects utilizing outlined safety and infection control guidelines.

- Assessment Plan
 - Assessment Tool: Laboratory evaluation

- Assessment Date: Winter 2011
- Course section(s)/other population: all
- Number students to be assessed: all
- How the assessment will be scored: Departmentally-developed rubric
- Standard of success to be used for this assessment: 90% or more of students will score 84% or higher on first attempt.
- Who will score and analyze the data: Departmental faculty will score and analyze the data.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2013		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
42	18

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students that completed the laboratory activities were assessed. (Students were counted twice; once for the lecture and once for the lab.)

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students that completed the laboratory activities were assessed.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Projects were scored using a departmentally-developed rubric. The standard of success used for this assessment is that 90% or more of students will score 84% or higher on their first attempt.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

89% of the students passed at 84% or higher on the total of all their laboratory projects. The standard of success was not met.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

A majority of the students performed well on all course projects. At the time of this assessment, the same students are performing well clinically.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Time management in lab was an issue for a couple of students. These same students did poorly on their course projects. In the future, we hope to implement a daily lab evaluation in order to provide feedback to the student on a daily basis.

II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

The faculty feel as though this course is meeting the needs of the students with the exception of dental cements. Dental cements has been a difficult area for student comprehension and continues to be so throughout the year. With materials constantly changing, and the many steps involved in the different cements, it is a complicated topic for first semester students.

2. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

The faculty meet on a regular basis and have discussed student performance and an action plan prior to and while completing this assessment.

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Course Assignments	Faculty teaching the course will revise course content to include newer	Many of the older cements are obsolete and are confusing to the	2014

	cements that are on the market and remove older cements that are no longer in use.	students when compared to the steps involved in the newer dental cements.	
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4. Is there anything that you would like to mention that was not already captured?

III. Attached Files

Assessment Data

Faculty/Preparer: Kristina Sprague **Date:** 06/23/2014
Department Chair: Connie Foster **Date:** 07/17/2014
Dean: Kristin Brandemuehl **Date:** 07/18/2014
Assessment Committee Chair: Michelle Garey **Date:** 09/18/2014

COURSE ASSESSMENT REPORT

I. Background Information

1. Course assessed:
 - Course Discipline Code and Number: **DEN 112**
 - Course Title: **Dental Materials**
 - Division/Department Codes: **Health and Applied Technologies (HAT)**

2. Semester assessment was conducted (check one):
 - Fall 20__
 - Winter 2009__
 - Spring/Summer 20__

3. Assessment tool(s) used: check all that apply.
 - Portfolio
 - Standardized test
 - Other external certification/licensure exam (specify):
 - Survey
 - Prompt
 - Departmental exam
 - Capstone experience (specify):
 - Other (specify): **Project portfolio and practical exams**

4. Have these tools been used before?
 - Yes
 - No

If yes, have the tools been altered since its last administration? If so, briefly describe changes made.
For the departmental exam, there was clarification of the wording. The administration of the exam was changed to allow for item analysis. The evaluation form used to grade student portfolio projects was not changed. Evaluation forms for the practical exams were updated.

5. Indicate the number of students assessed/total number of students enrolled in the course.
18 students completed the departmental exam and project portfolio.

6. Describe how students were selected for the assessment.
All 18 students were assessed.

II. Results

1. Briefly describe the changes that were implemented in the course as a result of the previous assessment.
The administration of the departmental exam was changed to allow for item analysis.

2. State each outcome (verbatim) from the master syllabus for the course that was assessed.
 - 1. Identify concepts and principles related to the properties and uses of common dental materials.**
 - 2. Manipulate dental materials according to OSHA guidelines.**
 - 3. Operate dental equipment safely.**

3. Briefly describe assessment results based on data collected during the course assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected.*
 - Outcome 1: 28 out of 115 items were targeted for review (departmental exam)**

 - Outcome 2: 100% of the students passed on the first attempt. (project portfolio)
89% of the students passed on the first attempt. (practical exam #1)
100% of the students passed on the first attempt (practical exam #2)**

 - Outcome 3: no data**

COURSE ASSESSMENT REPORT

4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment.*

Outcome 1: Standard to be used is 80% for each item. Items with scores lower than 80% will be targeted for review.

Outcome 2: Standard to be used is 90% students pass on first attempt.

Outcome 3: Standard to be used is 90% students pass on first attempt.

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

Strengths: Students completed their laboratory projects successfully and on time.

Weaknesses: Not all students were able to pass the mixing exam on the first attempt. This is an issue every year. They do not spend enough time practicing even though additional time is allocated.

III. Changes influenced by assessment results

1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.

Outcome #1: All items with scores lower than 80% will be reviewed. Frequently missed questions on the final will be reviewed and additional questions added to the post tests to better test the student's level of comprehension and prepare them for the final.

Additional classroom experience or discussion will be added.

Outcome #2: Additional small group supervised practice will be assigned rather than open lab.

Outcome #3: While students proved to operate the dental equipment safely, the faculty did not feel as though this needed to be an outcome of the course but rather an objective under Outcome #2.

2. Identify intended changes that will be instituted based on results of this assessment activity (check all that apply). Please describe changes and give rationale for change.

a. Outcomes/Assessments on the Master Syllabus
Change/rationale: **Combine Outcome #2 and #3 to better assess student achievement.**

b. Objectives/Evaluation on the Master Syllabus
Change/rationale:

c. Course pre-requisites on the Master Syllabus
Change/rationale:

d. 1st Day Handouts
Change/rationale:

e. Course assignments: **As mentioned above, the post tests and final will be revised.**

f. Course materials (check all that apply)
 Textbook
 Handouts
 Other:

g. Instructional methods
Change/rationale:

h. Individual lessons & activities
Change/rationale: **Additional class time will be allocated to the areas where weaknesses were noted.**

COURSE ASSESSMENT REPORT

- 3. What is the timeline for implementing these actions? **Changes to the multiple choice questions will addressed prior to the next offering. Additional classroom time will be allocated beginning with the Fall 2009 semester.**

IV. Future plans

- 1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this course.
All assessment tools were found to be effective.

- 2. If the assessment tools were not effective, describe the changes that will be made for future assessments.
N/A

- 3. Which outcomes from the master syllabus have been addressed in this report?

All X Selected _____

If "All", provide the report date for the next full review: Winter 2012

If "Selected", provide the report date for remaining outcomes: _____

Submitted by:

Name: *Viviana Spague* *Viviana Spague* Date: 7/8/09
Print/Signature

Department Chair: *Comma* *Joak* Date: 7/13/09
Print/Signature

Dean: *[Signature]* *[Signature]* Date: 7/13/09
Print/Signature