

Course Assessment Report  
Washtenaw Community College

Discipline	Course Number	Title
Dental Assisting	107	DEN 107 04/21/2022-Oral Anatomy
College	Division	Department
	Health Sciences	Allied Health
Faculty Preparer	Kristina Sprague	
Date of Last Filed Assessment Report	04/26/2019	

**I. Review previous assessment reports submitted for this course and provide the following information.**

1. Was this course previously assessed and if so, when?

Yes  
Through Fall 2018.

2. Briefly describe the results of previous assessment report(s).

The standard of success was met. Overall, the students were able to correctly identify intraoral structures both clinically and didactically.

3. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

No changes intended.

**II. Assessment Results per Student Learning Outcome**

Outcome 1: Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2022
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Answer key, followed by item analysis

- Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall
- Who will score and analyze the data: DA faculty

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)
2021, 2020, 2019		

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

# of students enrolled	# of students assessed
26	21

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.

Only those students that completed the final exam were assessed.

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.

One section of DEN 107 is offered each year in the Fall.

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

Outcome number one was assessed using 10 outcome-related exam questions scored with an answer key.

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% of students will answer each item correctly and 80% of the students to receive 80% overall." This will be updated to look at the overall score on the outcome-related questions.

Fall 2019 - All questions were answered correctly by at least 80% of the students. 6 out of 7 (86%) students received 80% or higher on the outcome-related questions. Standard of success was met.

Fall 2020 - 8 out of the 10 questions were answered correctly by 80% of the students. 3 out of 4 (75%) students received 80% or higher on the outcome-related questions. Standard of success was not met.

Fall 2021 - 7 out of 10 questions were answered correctly by 80% of the students. 60% of the students received 80% or higher on the outcome-related questions. Standard of success was not met.

Overall - 15 out of 21 (71%) of the students received 80% or higher on the outcome-related questions.

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

Students performed well when recording themselves identifying intraoral and extraoral structures clinically and identifying structures of the skull.

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.

Didactically students struggled with the material being offered online and setting aside enough time for the material. Returning to a structured meeting time in order to practice and review the material will improve student outcomes.

Outcome 1: Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Practical exam
  - Assessment Date: Winter 2022
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures
  - Standard of success to be used for this assessment: 90% students will pass on first attempt

- Who will score and analyze the data: DA faculty

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)
2021, 2020, 2019		

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

# of students enrolled	# of students assessed
26	21

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.

Only those students that completed the final exam were assessed.

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.

One section of DEN 107 is offered each year in the Fall.

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

The validation contains a list of items that are expected to be identified. Each criteria is evaluated on a pass/fail basis. The validations have numerical scores which are added to obtain a total. Students are expected to obtain 85% or it must be retaken.

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

The standard of success for this outcome was: 90% of students will pass on first attempt (achieve score of 85% or higher).

Fall 2019 - 100% (7/7) of the students passed on their first attempt.

Fall 2020 - 100% (4/4) of the students passed on their first attempt.

Fall 2021 - 90% (9/10) of the students passed on their first attempt.

Overall - 95% (20/21) of the students passed on their first attempt.

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

Students performed well when recording themselves identifying intraoral and extraoral structures clinically and identifying structures of the skull.

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.

Didactically students struggled with the material being offered online and setting aside enough time for the material. Returning to a structured meeting time in order to practice and review the material will improve student outcomes.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2022
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Answer key, followed by item analysis
  - Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall
  - Who will score and analyze the data: DA faculty

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)
2020, 2019, 2021		

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

# of students enrolled	# of students assessed
26	21

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.

Only those students that completed the final exam were assessed.

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. One section of DEN 107 is offered each year in the Fall.

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

This outcome was assessed using 10 outcome-related exam questions scored with an answer key.

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% of students will answer each item correctly and 80% of the students to receive 80% overall." This will be updated to look at the overall score on the outcome-related questions.

Fall 2019 - 7 out of the 10 questions were answered correctly by 80% of the students. 5 out of 7 (71%) students received 80% or higher on the outcome-related questions. Standard of success not met.

Fall 2020 - 7 out of the 10 questions were answered correctly by 80% of the students. 2 out of 4 (50%) students received 80% or higher on the outcome-related questions. Standard of success was not met.

Fall 2021 - 5 out of 10 questions were answered correctly by 80% of the students. 3 out of 10 (30%) of the students received 80% or higher on the outcome-related questions. Standard of success was not met.

Overall, 10/21 (48%) of students scored 80% or higher on the outcome-related questions.

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

Students performed well when recording themselves identifying tooth morphology.

- 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.

Didactically students struggled with the material being offered online and setting aside enough time for the material. Returning to a structured meeting time in order to practice and review the material will improve student outcomes.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan
  - Assessment Tool: Practical exam
  - Assessment Date: Winter 2022
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures
  - Standard of success to be used for this assessment: 90% of students will pass on first attempt (achieve score of 85% or higher).
  - Who will score and analyze the data: DA faculty

- 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)
2021, 2020, 2019		

- Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
26	21

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.

Only those students that completed the final exam were assessed.

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 assessment tool were assessed. One section of DEN 107 was offered each year in the Fall.

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

The validation contains a list of items that are expected to be identified. Each criteria is evaluated on a pass/fail basis. The validations have numerical scores which are added to obtain a total. Students are expected to obtain 85% or it must be retaken.

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

The standard of success for this outcome was: 90% of students will pass on first attempt (achieve score of 85% or higher).

Fall 2019 - 100% (7/7) of the students passed on their first attempt.

Fall 2020 - 100% (4/4) of the students passed on their first attempt.

Fall 2021 - 90% (9/10) of the students passed on their first attempt.

Overall - 95% (20/21) of the students passed on their first attempt.

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

Students performed well when recording themselves identifying tooth morphology.



- 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.

Didactically students struggled with the material being offered online and setting aside enough time for the material. Returning to a structured meeting time in order to practice and review the material will improve student outcomes.

### III. Course Summary and Intended Changes Based on Assessment Results

- Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

There were no intended changes in the last report. However, the previous report mentioned that additional time should be spent on topics students were struggling with and individualized time spent with students increased student performance.

- 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?

2019 was taught F2F  
 2020 was taught online  
 2021 was taught online

The course being offered online is not meeting the needs of the students. Students did not spend enough time on the material. Scheduled virtual "open lab" sessions and continual reminders of office hours were communicated to students. Rarely were these sessions attended. These results were not surprising.

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

The faculty have been made aware of this information and were consulted in preparing an action plan.

- Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Other: Course Offering	The course will be offered as an MM	Students struggled working	2022

	section and require weekly virtual attendance.	independently through this material.	
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5. Is there anything that you would like to mention that was not already captured?

Having recorded examples of the tooth morphology, intra/extraoral structures and the skull identification for students to refer back to increased validation scores. This was the one benefit of putting the material online.
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### III. Attached Files

[DEN 107 Assessment Data](#)

[DEN 107 Outcome 1 Goal Performance Fall 2020](#)

[DEN 107 Outcome 1 Goal Performance Fall 2021](#)

[DEN 107 Outcome 2 Goal Performance Fall 2020](#)

[DEN 107 Outcome 2 Goal Performance Fall 2021](#)

**Faculty/Preparer:** Kristina Sprague **Date:** 04/21/2022  
**Department Chair:** Kristina Sprague **Date:** 04/21/2022  
**Dean:** Shari Lambert **Date:** 05/18/2022  
**Assessment Committee Chair:** Shawn Deron **Date:** 10/11/2022

**Course Assessment Report**  
**Washtenaw Community College**

Discipline	Course Number	Title
Dental Assisting	107	DEN 107 12/19/2018-Oral Anatomy
Division	Department	Faculty Preparer
Health Sciences	Allied Health	Kristina Sprague
Date of Last Filed Assessment Report	02/11/2015	

**I. Review previous assessment reports submitted for this course and provide the following information.**

1. Was this course previously assessed and if so, when?

No

2. Briefly describe the results of previous assessment report(s).

3.

4. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

5.

**II. Assessment Results per Student Learning Outcome**

Outcome 1: Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2018
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Answer key, followed by item analysis
  - Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall.

- Who will score and analyze the data: DA Faculty

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)
2018, 2017, 2016		

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

# of students enrolled	# of students assessed
42	39

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 exam were assessed.

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.

Students from the single section 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 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: Yes  
Fall 2016 - 0 out of 15 questions targeted for review - 80% of students correctly answered 100% of the questions.  
Fall 2017- 1 out of 15 questions targeted for review - 80% of students correctly answered 93% of the questions.  
Fall 2018 - 1 out of 15 questions targeted for review - 80% of students correctly answered 93% of the questions.

Overall, the standard of success was met.

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

Overall, the students were able to correctly identify intraoral structures both clinically and didactically.

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 any flagged questions on the final will be reviewed. The areas will be discussed with the instructor of the course to determine if additional time needs to be allocated to that material.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2018
  - Course section(s)/other population: all
  - Number students to be assessed: all
  - How the assessment will be scored: Answer key, followed by item analysis
  - Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall.
  - Who will score and analyze the data: DA Faculty

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)
2017, 2018, 2016		

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

# of students enrolled	# of students assessed
42	39

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 exam were assessed.

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.

Students from the single section 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 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: Yes

Fall 2016 - 3 out of 21 questions targeted for review - 86% of students correctly answered 80% of the questions

Fall 2017- 4 out of 21 questions targeted for review - 93% of students scored 85% or higher

Fall 2018 - 2 out of 21 questions targeted for review - 100% of students scored 88% or higher

Overall, the standard of success was met.

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

Overall, the students were able to correctly identify intraoral structures both clinically and didactically.

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 final and any flagged questions will be reviewed. The areas will be discussed with the instructor of the course to determine if additional time needs to be allocated to that material.

Outcome 1: Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Practical exam
  - Assessment Date: Winter 2018
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures.
  - Standard of success to be used for this assessment: 90% students will pass on first attempt.
  - Who will score and analyze the data: DA Faculty

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)
2018, 2017, 2016		

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

# of students enrolled	# of students assessed
42	39

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 exam were assessed.

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.

Students from the single section were assessed.

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

The validation contains a list of items that are expected to be identified.

Each criteria is evaluated on a pass/fail basis.

The validations have numerical scores which are added to obtain a total.

Students are expected to obtain 85% or it must be retaken.

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

Fall 2016 - 100% of the students passed at 92% or higher

Fall 2017 - 93% of the students passed at 85% or higher

Fall 2018 - 100% of the students passed at 92% or higher

The standard of success was 90% of the students will pass at 85% or higher.

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

Overall, the students were able to correctly identify intraoral structures both clinically and didactically.

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 any flagged questions on the final will be reviewed. The areas will be discussed with the instructor of the course to determine if additional time needs to be allocated to that material.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan



- Assessment Tool: Practical exam
- Assessment Date: Winter 2018
- Course section(s)/other population: All
- Number students to be assessed: All
- How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures.
- Standard of success to be used for this assessment: 90% of students will pass on first attempt.
- Who will score and analyze the data: DA Faculty

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)
2018, 2017, 2016		

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

# of students enrolled	# of students assessed
42	39

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 exam were assessed.

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.

Students from the single section were assessed.

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

The validation contains a list of items that are expected to be identified.

Each criteria is evaluated on a pass/fail basis.

The validations have numerical scores which are added to obtain a total.

Students are expected to obtain 85% or it must be retaken.

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: <u>Yes</u>
Fall 2016 - 100% of the students passed at 88% or higher
Fall 2017 - 93% of the students passed at 85% or higher
Fall 2018 - 100% of the students passed at 92% or higher
The standard of success was 90% of the students will pass at 85% or higher.

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

Overall, the students were able to correctly identify intraoral structures both clinically and didactically.
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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 final and any flagged questions will be reviewed. The areas will be discussed with the instructor of the course to determine if additional time needs to be allocated to that material.
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### III. Course Summary and Intended Changes Based on Assessment Results

1. Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

2.
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3. 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?

This course is immediately followed by DEN 108 Dental Radiography. The knowledge the students obtained in DEN 107 is implemented right away by observing those structures in radiographs. They also have to begin using the terminology correctly when discussing the structures with their instructor and
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classmates. As the instructor for DEN 108, I can confirm they have been able to do so effectively.

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

The information will be shared with the faculty teaching the course at the next program meeting.

5. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
No changes intended.			

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

7.

### III. Attached Files

[DEN 107 Assessment Data](#)

**Faculty/Preparer:** Kristina Sprague **Date:** 12/19/2018  
**Department Chair:** Kristina Sprague **Date:** 12/19/2018  
**Dean:** Valerie Greaves **Date:** 01/01/2019  
**Assessment Committee Chair:** Shawn Deron **Date:** 04/18/2019

**Course Assessment Report  
Washtenaw Community College**

Discipline	Course Number	Title
Dental Assisting	107	DEN 107 01/07/2015-Oral Anatomy
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 intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2015
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Answer key, followed by item analysis
  - Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall.
  - Who will score and analyze the data: DA Faculty

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)
2014, 2013, 2012		

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

# of students enrolled	# of students assessed
55	55

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 took the written final were assessed.

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 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  
2012- 57% passed overall with 80% or higher on the first attempt.  
2013- 76% passed overall with 80% or higher on the first attempt.  
2014- 89% passed overall with 80% or higher on the first attempt.  
Overall 75% passed on first attempt. Standard of success was 80%

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

Students have continued to perform well in identifying intraoral and extraoral structures one on one with the instructor during a performance validation. Test scores on their written final have improved each year over the past 3 years.

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.

Written Final:  
While overall our standard of success was not met when considering the last 3 years, each year student performance on the written final has improved. If you consider 2014 alone, our standard of success was met. Additional time allocated to the topics students struggle with, along with individualized attention, will continue to be our focus. There were 6 questions on the written final targeted for review. These questions will be reviewed for content and either rewritten or

content will be added for better student understanding.

Practical Exam:

The clinical validations appear to be effective in assessing the student's ability to identify intraoral and extraoral structures. Whether the students retain that information and apply this knowledge will be determined in DEN 128. Radiographic interpretation validation results in DEN 128 will be closely monitored.

Outcome 1: Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.

- Assessment Plan
  - Assessment Tool: Practical exam
  - Assessment Date: Winter 2015
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures.
  - Standard of success to be used for this assessment: 90% students will pass on first attempt.
  - Who will score and analyze the data: DA Faculty

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)
2014, 2013, 2012		

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

# of students enrolled	# of students assessed
55	55

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 took the clinical validations were assessed.

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 were assessed.

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

The clinical validations contain a list of criteria that are expected to be met. Each criterion is evaluated on a pass/fail basis. Clinical validations have numerical scores which are added to obtain a total. Students are expected to obtain a 90% or it must be retaken.

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

2012- 100% passed overall with 80% or higher on the first attempt.

2013- 95% passed overall with 80% or higher on the first attempt.

2014- 100% passed overall with 80% or higher on the first attempt.

Overall 96% passed on first attempt. Standard of success was 90%

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

Students have continued to perform well in identifying intraoral and extraoral structures one on one with the instructor during a performance validation. Test scores on their written final have improved each year over the past 3 years.

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.

Written Final:

While overall our standard of success was not met when considering the last 3 years, each year student performance on the written final has improved. If you consider 2014 alone, our standard of success was met. Additional time allocated to the topics students struggle with, along with individualized attention, will continue

to be our focus. There were 6 questions on the written final targeted for review. These questions will be reviewed for content and either rewritten or content will be added for better student understanding.

Practical Exam:

The clinical validations appear to be effective in assessing the student's ability to identify intraoral and extraoral structures. Whether the students retain that information and apply this knowledge will be determined in DEN 128. Radiographic interpretation validation results in DEN 128 will be closely monitored.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan
  - Assessment Tool: Departmental exam
  - Assessment Date: Winter 2015
  - Course section(s)/other population: all
  - Number students to be assessed: all
  - How the assessment will be scored: Answer key, followed by item analysis
  - Standard of success to be used for this assessment: 80% of students will answer each item correctly and 80% of the students to receive 80% overall.
  - Who will score and analyze the data: DA Faculty

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)
2014, 2013, 2012		

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

# of students enrolled	# of students assessed
55	55

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 took the written final exam were assessed.



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 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

2012- 57% passed overall with 80% or higher on the first attempt.

2013- 76% passed overall with 80% or higher on the first attempt.

2014- 89% passed overall with 80% or higher on the first attempt.

Overall 75% passed on first attempt. Standard of success was 80%

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

Students have continued to perform well in identifying tooth surface annotation and cavity classification and occlusion/malocclusion one on one with the instructor during a performance validation. Test scores on their written final have improved each year over the past 3 years.

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.

While overall our standard of success was not met, when considering the last 3 years, each year student performance on the written final has improved. If you consider 2014 alone, our standard of success was met. Additional time allocated to the topics students struggle with, along with individualized attention, will continue to be our focus. There were 6 questions on the written final targeted for review. These questions will be reviewed for content and either rewritten or content will be added for better student understanding.

Outcome 2: Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

- Assessment Plan
  - Assessment Tool: Practical exam
  - Assessment Date: Winter 2015
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed checklist identifying anatomical structures.
  - Standard of success to be used for this assessment: 90% of students will pass on first attempt.
  - Who will score and analyze the data: DA Faculty

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, 2012, 2014		

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

# of students enrolled	# of students assessed
55	55

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 took the validations were assessed.

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 were assessed.

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

The clinical validations contain a list of criteria that are expected to be met. Each criterion is evaluated on a pass/fail basis. Clinical validations have numerical scores

which are added to obtain a total. Students are expected to obtain a 90% or it must be retaken.

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

2012- 100% passed on first attempt.

2013- 95% passed on first attempt.

2014- 100% passed on first attempt.

Overall 96% passed on first attempt. Standard of success was 90%

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

Students have continued to perform well in identifying tooth surface annotation and cavity classification and occlusion/malocclusion one on one with the instructor during a performance validation. Test scores on their written final have improved each year over the past 3 years.

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.

While overall our standard of success was not met, when considering the last 3 years, each year student performance on the written final has improved. If you consider 2014 alone, our standard of success was met. Additional time allocated to the topics students struggle with, along with individualized attention, will continue to be our focus. There were 6 questions on the written final targeted for review. These questions will be reviewed for content and either rewritten or content will be added for better student understanding.

## 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?

Nothing about the students' performance was a surprise. The weekly quizzes, additional time spent on topics students were struggling with, and individualized

time spent with the students, have increased student performance over the past 3 years.

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 were involved in this assessment process.

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
No changes intended.			

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

### III. Attached Files

[DEN 107 Validation 1](#)

[DEN 107 Validation 2](#)

[DEN 107 Validation 3](#)

**Faculty/Preparer:** Kristina Sprague **Date:** 01/08/2015  
**Department Chair:** Connie Foster **Date:** 01/09/2015  
**Dean:** Kristin Brandemuehl **Date:** 01/09/2015  
**Assessment Committee Chair:** Michelle Garey **Date:** 02/11/2015

**COURSE ASSESSMENT REPORT**

**I. Background Information**

1. Course assessed:  
 Course Discipline Code and Number: DEN 107  
 Course Title: Oral Anatomy  
 Division/Department Codes: MSH

2. Semester assessment was conducted (check one):

- Fall 20\_\_
- Winter 20\_\_12\_\_
- 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):

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.  
 Frequently missed questions were reviewed/altered from previous assessment.

5. Indicate the number of students assessed and the total number of students enrolled in the course.  
 39 students – 19 from Fall 2010 and 20 from Fall 2011

6. If all students were not assessed, describe how students were selected for the assessment. (Include your sampling method and rationale.)  
 All students from each year were assessed. X

**II. Results**

1. Briefly describe the changes that were implemented in the course as a result of the previous assessment.  
 Additional classroom time was spent on identifying structures of the teeth.

2. List each outcome that was assessed for this report exactly as it is stated on the course master syllabus. (You can copy and paste these from CurricUNET's WR report.)

- Outcome #1 Identify intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.
- Outcome #2 Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.

3. For each outcome that was assessed, indicate the standard of success exactly as it is stated on the course master syllabus. (You can copy and paste these from CurricUNET's WR report.)

Outcome #1 Standard to be used on item analysis of responses to written final is 80% for each item. Items with scores lower than 80% will be targeted for review.  
 Standard to be used for the performance validations is 90%<sup>of</sup> students pass on first attempt. X

Outcome #2 Standard to be used on item analysis of responses to written final is 80% for each item. Items with scores lower than 80% will be targeted for review.  
 Standard to be used for the performance validations is 90%<sup>of</sup> students pass on first attempt. X

**COURSE ASSESSMENT REPORT**

4. Briefly describe assessment results based on data collected during the course assessment. Indicate the extent to which students are achieving each of the learning outcomes listed above and state whether the standard of success was met for each outcome. *In a separate document, include a summary of the data collected and any rubrics or scoring guides used for the assessment.*

**Outcome #1** 3 out of 33 items were targeted for review (department exam)  
 97% of the students passed on the first attempt (practical exam)  
 Benchmark was met

**Outcome #2** 4 out of 23 items were targeted for review (department exam)  
 97% of the students passed on the first attempt (practical exam)  
 Benchmark was met

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in the assessment results. *(This should be an interpretation of the assessment results described above and a thoughtful analysis of student performance.)*

Strengths: Given the scores on the practical exams, students have mastered identifying intraoral and extraoral structures as well as tooth identification and nomenclature. The departmental exam scores indicate the students have a basic understanding of structures and nomenclature.

Weaknesses: The frequently missed questions on the departmental exam indicate the students have not sufficiently mastered the identification enough in order to critically think through the test questions.

**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. *(If students met all expectations, describe your plan for continuous improvement.)*

*All questions targeted for review will be discussed in a faculty meeting. The department will work on adding case studies to the modules and discussing them further in class.*

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:

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

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

d.  1<sup>st</sup> Day Handouts  
 Change/rationale:

e.  Course assignments  
 Change/rationale:

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

g.  Instructional methods



**COURSE ASSESSMENT REPORT**

**I. Background Information**

1. Course assessed:  
 Course Discipline Code and Number: **DEN 107**  
 Course Title: **Oral Anatomy**  
 Division/Department Codes: **Health and Applied Technologies (HAT)**
  
2. Semester assessment was conducted (check one):  
 Fall 2008\_  
 Winter 20\_\_  
 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): **Practical Exam**
  
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 multiple choice exam, there was clarification of the wording. The administration of the test was changed to allow for item analysis.**

5. Indicate the number of students assessed/total number of students enrolled in the course.  
**There were 20 students enrolled.**
  
6. Describe how students were selected for the assessment.  
**All 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 intraoral and extraoral structures of the head and neck including bones, muscles, and tissue.**
  
  2. **Identify systems for annotating tooth surfaces, and classifying cavities and occlusion/malocclusion.**
  
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: 4 out of 29 items were targeted for review (departmental exam)  
 95% of the students passed on the first attempt. (practical exam)**

**Outcome 2: 7 out of 31 items were targeted for review (departmental exam)  
 90% of the students passed on the first attempt. (practical exam)**



**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.*

1. **Outcome 1: Standard to be used on item analysis of responses to written final is 80% for each item. Items with scores lower than 80% will be targeted for review. Standard to be used for the performance validations is 90% students pass on first attempt.**
2. **Outcome 2: Standard to be used on item analysis of responses to written final is 80% for each item. Items with scores lower than 80% will be targeted for review. Standard to be used for the performance validations 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: A majority of the students mastered identifying intraoral and extraoral structures as well as tooth identification and nomenclature of the practical exams. The departmental exam demonstrated that the students had a basic understanding of intraoral and extraoral structures of the head and neck.**

**Weaknesses: The departmental exam demonstrated that the students had not sufficiently mastered the identification of some of the structures of the teeth.**

**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 and 2: 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 test the level of comprehension and better prepare students for the final**

**Additional classroom experience or discussion will be added.**

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:

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

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

d.  1<sup>st</sup> 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 be 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: Fall 2011

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

Submitted by:

Name: Kristina Sprague Kristina Sprague Date: 10/22/08  
Print/Signature

Department Chair: Tommy Foster Date: 10/22/08  
Print/Signature

Dean: [Signature] Date: 10/24/08  
Print/Signature