Discipline	Course Number	Title
Dental Assisting	204	DEN 204 04/18/2022- Advanced Functions
College	Division	Department
	Health Sciences	Allied Health
Faculty Preparer		Kristina Sprague
Date of Last Filed Assessment Report		01/22/2018

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

November 2017

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

The standard of success was met for two out of the three outcomes. Students struggled passing the amalgam portion of the clinical exam on the first attempt. 99% passed on the second attempt.

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

Additional practice time will be allocated to amalgam placement.

Required minimum of activities completed by mid-term rather than everything due at the end of the semester.

Both were implemented with the next course offering, Winter 2018.

II. Assessment Results per Student Learning Outcome

Outcome 1: Recognize and apply theory and concepts of infection control, radiation health and safety, and general chairside assisting.

- Assessment Plan

    o Assessment Tool: Final exam multiple choice questions

- o Assessment Date: Fall 2021

- o Course section(s)/other population: All

- o Number students to be assessed: All

- o How the assessment will be scored: The assessment tool is a final exam consisting of multiple choice and true/false items. The exam is scored through Blackboard and an item analysis will be generated.

- o Standard of success to be used for this assessment: 80% of the students will score an overall average of 80% or higher on the questions related to Outcome 1.

- o Who will score and analyze the data: The final exam is scored in Blackboard and will be analyzed by the 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	2021, 2020	2021, 2020

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

# of students enrolled	# of students assessed
38	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.

Only students that completed the assessment activities 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 on-campus and MM sections from which course performance data was able to be obtained. I was unable to pull data from older Blackboard courses.

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. 10 outcome-related exam questions were used and scored through Blackboard.

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
78% of the students scored an average of 80% 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 on concepts that they could relate to their daily practice.

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.

Students struggled with questions regarding terms and concepts that were specifically from the textbook and are not dealt with on a daily basis in the dental office. Additional review materials will be made available covering oral anatomy, OSHA and the "why" with regards to provisional restorations.

Outcome 2: Recognize and perform intraoral functions and procedures of the Registered Dental Assistant (RDA) as outlined in the Administrative Rules of the Michigan Board of Dentistry.

- Assessment Plan

  o Assessment Tool: Final exam multiple choice questions

  o Assessment Date: Fall 2021

  o Course section(s)/other population: All

  o Number students to be assessed: All

  o How the assessment will be scored: The assessment tool is a final exam consisting of multiple choice and true/false items. The exam is scored through Blackboard and an item analysis will be generated.

  o Standard of success to be used for this assessment: 80% of the students will score an overall average of 80% or higher on questions related to Outcome 2.

  o Who will score and analyze the data: The final exam is scored in Blackboard and will be analyzed by the 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	2021, 2020	2021, 2020

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

# of students enrolled	# of students assessed
38	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.

Only students that completed the assessment activities 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 on-campus and MM sections from which course performance data was able to be obtained. I was unable to pull data from older Blackboard courses.

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. 10 outcome-related exam questions were used and scored through Blackboard.

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

70% of the students scored an average of 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 on concepts that they could relate to their daily practice. Students also performed well when working with their dentist performing laboratory and clinical validations.

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.

Students struggled with questions regarding terms and concepts that were specifically from the textbook and are not dealt with on a daily basis in the dental office. Additional review materials will be may available covering clinical exams, patient assessment and the Administrative Rules of the Board of Dentistry.

Outcome 2: Recognize and perform intraoral functions and procedures of the Registered Dental Assistant (RDA) as outlined in the Administrative Rules of the Michigan Board of Dentistry.

- Assessment Plan

  o Assessment Tool: Laboratory and Clinical Validation Forms

  o Assessment Date: Fall 2021

  o Course section(s)/other population: All

  o Number students to be assessed: All

  o How the assessment will be scored: Check List

  o Standard of success to be used for this assessment: 100% of the students will pass all the required validations

  o Who will score and analyze the data: Departmental faculty and dentists/mentors will score the data. Faculty 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)
2020, 2019, 2018	2021, 2020, 2019	2021, 2020, 2019, 2018

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

# of students enrolled	# of students assessed
113	109

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 students that completed the assessment activities 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 on-campus and MM sections 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 validation contains a list of criteria that are expected to be met. Each criteria is evaluated on a pass/fail basis. Clinical validations have numerical scores which are added to obtain a total. Students are expected to obtain 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: <u>Yes</u>

100% of the students that completed the course passed all the required validations.

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

Students performed well on concepts that they could relate to their daily practice. Students also performed well when working with their dentist performing laboratory and clinical validations.

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.

Students struggled with questions regarding terms and concepts that were specifically from the textbook and are not dealt with on a daily basis in the dental office. Additional review materials will be may available covering clinical exams, patient assessment and the Administrative Rules of the Board of Dentistry.

Outcome 3: Master clinical skills as outlined on the Michigan RDA Board Examination.

- Assessment Plan
    - o Assessment Tool: Clinical final exam
    - o Assessment Date: Fall 2021

- o Course section(s)/other population: All

- o Number students to be assessed: All

- o How the assessment will be scored: The clinical final is scored on a pass/fail basis using the Michigan Board of Dentistry RDA Exam criteria.

- o Standard of success to be used for this assessment: 80% of the students will pass on their first attempt. 100% of the students will pass on their second attempt.

- o Who will score and analyze the data: The 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)
2020, 2019, 2018	2021, 2020, 2019	2020, 2021, 2019, 2018

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

# of students enrolled	# of students assessed
113	109

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 students that completed the assessment activities 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 on-campus and MM sections 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 is a criteria-based evaluation scored as pass/fail.

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

104 out of the 109 (95%) students passed the clinical final on their second attempt. First attempt data was not set up in Blackboard.

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

Students have performed well on the clinical portion of the final.

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 they have performed well, a virtual mid-term did not allow for additional supervised practice. Virtual mid-terms for Pathway II will not be continued and students will need to come to campus for their mid-term. A second column will also be added to the gradebook for each portion of the final in order to better document the number of attempts.

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.

The additional time allocated to amalgam practice and practicing and evaluating amalgams placed on the RDA model has greatly improved student success. A structured Pathway I schedule has helped students stay on top of the material. Due to different opportunities afforded in private practice, the Pathway II schedule has remained less structured and continues to be an issue.

2. 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 students continue to show high pass rates on the RDA Board exam. The areas of the written final that students are struggling with is not a surprise and we have already begun to address those areas with additional review materials.

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

This assessment will be shared with faculty at the next scheduled meeting.

4.
Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Course Materials (e.g. textbooks, handouts, on-line ancillaries)	Review outcome-related final exam questions and provide additional review materials for the topics outlined (e.g. oral anatomy, OSHA, provisional restorations, patient assessment, clinical exams), especially those they do not encounter daily in a dental office.	To improve student outcomes and better prepare them for the RDA Board exam.	2022
Other: gradebook setup	Add/review columns in Blackboard gradebook to document the number of attempts.	The standard of success for Outcome #3 lists goals for first and second attempts. The current assessment only tracked second attempts.	2022

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

Unfortunately, many offices are no longer placing amalgam restorations so both Pathway I and II have limited clinical experience prior to this course.

III. Attached Files

DEN 204 Assessment Data

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:** 08/31/2022

Discipline	Course Number	Title
Dental Assisting	204	DEN 204 11/21/2017-Advanced Functions
Division	Department	Faculty Preparer
Health Sciences	Allied Health	Kristina Sprague
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Recognize theory and concepts previously tested through Dental Assisting National Board (DANB) CDA exam, or prior course work.

- Assessment Plan

    o   Assessment Tool: Final exam multiple choice questions

    o   Assessment Date: Fall 2015

    o   Course section(s)/other population: all

    o   Number students to be assessed: all

    o   How the assessment will be scored: Answer key

    o   Standard of success to be used for this assessment: 80% of the students will score an overall average of 80% or higher on the Outcome 1 related questions.

    o   Who will score and analyze the data: The final exam is scored in BlackBoard and will be analyzed by the 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)
2016, 2016, 2015	2017, 2016	2017, 2016, 2015

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

# of students enrolled	# of students assessed
112	101

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 students that completed the assessment activities 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 on-campus and MM sections 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: Yes

In 6 out of the 10 sections, students who took the final exam did not score 80% or higher on their first attempt on the final. However, in 9 out of the 10 sections, 100% of the students scored 80% or higher after a second attempt. Overall 80% of the students scored 80% or higher on the final exam when given a second attempt, and thus 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.

Based on the overall outcome of the final exam and the fact that 96% of the students passed the written portion of the RDA exam, the faculty feel as though the students have an appropriate level of understanding of the material.

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.

There were several questions identified that students frequently missed. Not only will the question be reviewed, but the content in the course associated with the question will be reviewed with future classes to ensure understanding.

Outcome 2: Identify the legally delegable functions and procedures of the Registered Dental Assistant (RDA) in the State of Michigan as outlined in the Administrative Rules of the Michigan Board of Dentistry.

- Assessment Plan

    o Assessment Tool: Final exam multiple choice questions

    o Assessment Date: Fall 2015

    o Course section(s)/other population: all

    o Number students to be assessed: all

    o How the assessment will be scored: Answer key

    o Standard of success to be used for this assessment: 80% of the students will score an overall average of 80% or higher on Outcome 2 related questions.

    o Who will score and analyze the data: The final exam is scored in BlackBoard and will be analyzed by the 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)
2016, 2016, 2015	2017, 2016	2016, 2017, 2015

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

# of students enrolled	# of students assessed
112	101

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 students that completed the assessment activities 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 on-campus and MM sections 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: <u>Yes</u>
>
> In 6 out of the 10 sections, students who took the final exam did not score 80% or higher on their first attempt on the final. However, in 9 out of the 10 sections, 100% of the students scored 80% or higher after a second attempt. Overall 80% of the students scored 80% or higher on the final exam when given a second attempt, and thus 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.

> Based on the overall outcome of the final exam and the fact that 96% of the students passed the written portion of the RDA exam, the faculty feel as though the students have an appropriate level of understanding of the material.

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.

> There were several questions identified that students frequently missed. Not only will the question be reviewed, but the content in the course associated with the question will be reviewed with future classes to ensure understanding.

Outcome 3: Master clinical skills necessary for the Michigan Registered Dental Assistant (RDA) Board Examination.

- Assessment Plan
    - Assessment Tool: Clinical final exam
    - Assessment Date: Fall 2015
    - Course section(s)/other population: all
    - Number students to be assessed: all
    - How the assessment will be scored: The clinical final is scored on a pass/fail basis using the Michigan Board of Dentistry RDA Exam criteria.

- o Standard of success to be used for this assessment: 80% of the students will pass on their first attempt. 100% of the students will pass on their second attempt.
- o Who will score and analyze the data: The 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)
2016, 2016, 2015	2017, 2016	2017, 2016, 2015

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

# of students enrolled	# of students assessed
112	101

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 students that completed the assessment activities 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 on-campus and MM sections 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 is a criteria-based evaluation form scored as pass/fail.

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
Overall: 99% of the students passed the dental dam portion on the first attempt - 100% of the students passed on their second attempt

> 85% of the students passed the crown portion on the first attempt - 100% of the students passed on their second attempt
>
> 61% of the students passed the amalgam portion on the first attempt - 99% of the students passed on their second attempt

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

> Students have had great success with the dental dam and crown portions of the clinical final. While students were not as successful passing the amalgam portion of the clinical final, 96% of the students passed the amalgam portion of the RDA board exam. After a second attempt at the exam they now have their RDA license.

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.

> Additional time will be allocated to the on-campus days to review criteria and practice amalgam placement. Open lab days will be scheduled to specifically work on amalgam placement as well.

Outcome 4: Achieve laboratory or clinical competency in all the legally delegable functions and procedures of the Registered Dental Assistant (RDA) in the State of Michigan as outlined in the Administrative Rules of the Michigan Board of Dentistry.

- Assessment Plan
    - o Assessment Tool: Laboratory and Clinical Validation forms
    - o Assessment Date: Fall 2015
    - o Course section(s)/other population: all
    - o Number students to be assessed: all
    - o How the assessment will be scored: The validations are scored using a department rubric.
    - o Standard of success to be used for this assessment: 100% of the students will pass all of the required validations to either laboratory or clinical competency.
    - o Who will score and analyze the data: The faculty as well as the dentists/mentors will score the data. The faculty 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, 2016, 2015	2017, 2016	2017, 2016, 2015

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

# of students enrolled	# of students assessed
112	101

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 students that completed the assessment activities 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 on-campus and MM sections 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 validation contains a list of criteria that are expected to be met.

Each criteria is evaluated on a pass/fail basis.

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

Students are expected to obtain 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

100% of the students that completed the course passed all the required validations.

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

> Students have had great success in completing the validations with the support of their dentists. They are getting the hands-on experience in both a laboratory and clinical setting.

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.

> Faculty will continue to encourage students to manage their time more effectively and use the validations as a review for their course material.

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 was surprising. Students need continual reminders to stay on task. It can be very difficult to work and take classes full time. Students that are behind the entire semester or are not utilizing the on-campus open labs, are not as successful.

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

> The faculty worked on this assessment together and will take action together immediately.

3.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Other: scheduled assignments	Currently students work at their own pace and have an outlined proposed schedule. We will now require a minumum of activities completed by mid-term.	This will help the students to stay on track and not get too behind.	2018

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

> 5.

III. Attached Files

Assessment data

Faculty/Preparer:	Kristina Sprague	**Date:** 11/21/2017
Department Chair:	Connie Foster	**Date:** 11/22/2017
Dean:	Valerie Greaves	**Date:** 11/27/2017
Assessment Committee Chair:	Michelle Garey	**Date:** 01/17/2018

Discipline	Course Number	Title
Dental Assisting	204	DEN 204 09/17/2013-Advanced Functions
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: Recognize theory and concepts previously tested through Dental Assisting National Board (DANB) CDA exam, or prior course work.

- Assessment Plan

    o Assessment Tool: Item analysis of student responses to multiple-choice items

    o Assessment Date: Winter 2009

    o Course section(s)/other population: all

    o Number students to be assessed: all

    o How the assessment will be scored:

    o Standard of success to be used for this assessment:

    o Who 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)
2012		2012

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

# of students enrolled	# of students assessed
31	31

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 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 included were on-campus students in Spring/Summer as well as our MM section 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 final exam is scored in BlackBoard. Questions with lower than 85% of the class answering them correctly were targeted for review.

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>No</u>
>
> The standard of success indicated 85% for each item. For the Spring/Summer class, 28 out of 76 items were targeted (37%). For the Fall class, 32 out of 76 items were targeted (42%). The standard of success appears to be 0 items would be targeted 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 have performed well with general chairside questions (dental materials, medical emergencies, infection control, legal aspects, etc.).

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.

> Oral anatomy/pathology questions were commonly missed. We have since added an additional validation form for intraoral/extraoral identification as well as added questions to both the oral anatomy and pathology review tests within the course.

Outcome 2: Identify the legally delegable functions and procedures of the RDA in the State of Michigan as outlined in the Adminstrative Rules of the Michigan Board of Dentistry.

- Assessment Plan
  - Assessment Tool: Item analysis of student responses to multiple-choice items

- o   Assessment Date: Winter 2009

- o   Course section(s)/other population: all

- o   Number students to be assessed: all

- o   How the assessment will be scored:

- o   Standard of success to be used for this assessment:

- o   Who 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)
2012		2012

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

# of students enrolled	# of students assessed
31	31

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 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 included were on-campus students in Spring/Summer as well as our MM section 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 final exam is scored in BlackBoard. Questions with lower than 85% of the class answering them correctly were targeted for review.

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 indicated 85% for each item. For the Spring/Summer

class, 24 out of 62 items were targeted (38%). For the Fall class, 28 out of 62 items were targeted (45%). The standard of success appears to be 0 items would be targeted thus our 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 easily identify the delegable functions for the RDA.

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.

Students need a better understanding of what is involved in each of the delegable functions. The focus up until this course has been the role of the dental assistant. In this course, the students assume the role of the operator and need a better grasp of how to evaluate their final product.

Outcome 3: Master clinical skills necessary for the Michigan Registered Dental Assistant (RDA)Board Examination.

- Assessment Plan

    o Assessment Tool: Review of performance ratings using performance evaluation criteria

    o Assessment Date: Winter 2009

    o Course section(s)/other population: all

    o Number students to be assessed: all

    o How the assessment will be scored:

    o Standard of success to be used for this assessment:

    o Who 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)
2012		2012

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

# of students enrolled	# of students assessed
31	31

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 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 included were on-campus students in Spring/Summer as well as our MM section 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 assessment tool is a criteria-based evaluation form scored as pass/fail.

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

For the Spring/Summer class, 12 out of 19 or 63% passed on their 1st attempt (100% of this class passed after the second attempt). For the Fall class, 10 out of 12 or 83% passed on their 1st attempt (100% of this class passed after the second attempt). The standard of success was 90% of the students will pass on their first attempt. 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.

While several students had to retake a portion of the clinical final, 100% of the students passed on their second attempt. The assessment results do not reflect the results of the Michigan RDA exam, however 96% of the students that took the RDA exam passed all 3 sections.

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.

Since this offering, an additional activity has been added to the course. This activity provides the opportunity for students to review the RDA exam criteria and evaluate examples of dental dam placement, temporary crowns and amalgam restorations.

Outcome 4: Achieve laboratory or clinical compentency in all the legally delegable functions and procedures of the RDA in the State of Michigan as outlined in the Adminstrative Rules of the Michigan Board of Dentistry.

- Assessment Plan

    - Assessment Tool: Review of performance ratings using performance evaluation criteria

    - Assessment Date: Winter 2009

    - Course section(s)/other population: all

    - Number students to be assessed: all

    - How the assessment will be scored:

    - Standard of success to be used for this assessment:

    - Who 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)
2012		2012

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

# of students enrolled	# of students assessed
31	31

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 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 included were on-campus students in Spring/Summer as well as our MM section 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 assessment tool is a criteria-based validation form scored as pass/fail.

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>
100% of the students from both classes passed all the validations.

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

Students are highly successful in the completion of the laboratory and clinical validations in the course.

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.

Validation submissions will continue to be monitored by the faculty and additional opportunities for laboratory/clinical time will be provided as necessary.

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 written final has always been challenging. We require that students pass the final at 85%. The RDA exam must be passed at 75%. This is a capstone course and the final is very comprehensive. Test anxiety certainly plays a role in the students' scores.

The students difficulty in transitioning from the role as the assistant to that of the operator was brought to light with the results from the written final as well.

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 these assessment results will be the topic of discussion at the next meeting.

3.
Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Assessment Tool	The targeted items on the written final will be reviewed by the faculty as well as the advisory committee members. At our most recent advisory committee meeting, it was decided by members and faculty that the written final must be reflective of the grading scale of the course rather than the elevated 85%.	The passing score for the final would still be elevated from that of the Michigan RDA exam which must be passed at 75%. We anticipate this will result in less student confusion and anxiety.	2014

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

III. Attached Files

S/S 2012 data
Fall 2012 data
Clinical final evaluation

Faculty/Preparer:	Kristina Sprague	**Date:**	01/29/2014
Department Chair:	Connie Foster	**Date:**	01/31/2014
Dean:	Martha Showalter	**Date:**	02/28/2014
Assessment Committee Chair:	Michelle Garey	**Date:**	03/21/2014

COURSE ASSESSMENT REPORT

I. Background Information
1. Course assessed:
   Course Discipline Code and Number: **DEN 204**
   Course Title: **Advanced Functions**
   Division/Department Codes: **Health and Applied Technologies (HAT)**

2. Semester assessment was conducted (check one):
   ☐ Fall 20__
   ☐ Winter 20__
   ☒ Spring/Summer 20_08_

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 29 students enrolled in 2 sections and all students were assessed.

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.
   Additional on-campus time was allotted for MM1 students to practice skills/functions that will be tested on their RDA Licensing exam.

2. State each outcome (verbatim) from the master syllabus for the course that was assessed.
   a. **Recognize theory and concepts previously tested through Dental Assisting National Board (DANB) CDA exam, or prior course work.**

   b. **Identify the legally delegable functions and procedures of the RDA in the State of Michigan as outlined in the Adminstrative Rules of the Michigan Board of Dentistry.**

   c. **Master clinical skills necessary for the Michigan Registered Dental Assistant (RDA) Board Examination.**

   d. **Achieve laboratory or clinical compentency in all the legally delegable functions and procedures of the RDA in the State of Michigan as outlined in the Adminstrative Rules of the Michigan Board of Dentistry.**

COURSE ASSESSMENT REPORT

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 and 2: Section W1 | 36 out of 125 items were targeted for review |
| Section MM1 | 52 out of 125 items were targeted for review |

Outcome 3 : Section W1	Rubber Dam	100% pass
	Temp Crown	100% pass
	Amalgam	82% pass
Section MM1	Rubber Dam	100% pass
	Temp Crown	100% pass
	Amalgam	75% pass

Outcome 4: All students passed the laboratory/clinical competencies. Given the evaluation and assessment tools, the faculty were unable to determine if it was the student's first attempt.

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 and 2: Standard of success was 85% for each item. Each item is detailed on the attached multiple choice exam.

   Outcome 3: Standard of success was that 90% of students would pass on the first attempt. See #3 above details as well as attached data for the practical exam.

   Outcome 4: The standard of success indicated that 90% of the students would pass on their first attempt. The faculty were unable to measure whether it was the student's first attempt.

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.
   Strengths: The students mastered the skills necessary to pass both the rubber dam and temporary crowns portions of their practical exams. Overall 93% of the students passed the written final exam at 85% or above.

   Weaknesses: Only 79% of the total number of students passed the amalgam portion of the practical exam on their first attempt. On the second attempt this increased to 93% success rate.

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 85% will be reviewed. Evaluation methods will be addressed in this review. Additional classroom experience or discussion will be added where weaknesses were noted.

   Outcome 3: Additional performance validation will be required using the RDA Exam model and criteria of the RDA Board Exam.

   Outcome 4: The weakness was in our description of our standard of success.

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: **Redefine the Standard of success in Outcome 4 so that it is identifiable. New standard: "Standard to be used is 100% of the students will pass the validation."**

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

Please return completed form to the Office of Curriculum & Assessment, SC 247.

Approved by the Assessment Committee 10/10/06

COURSE ASSESSMENT REPORT

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

    d. ☐ 1st Day Handouts
        Change/rationale:

    e. ☒ Course assignments
        **Change/rationale: An additional amalgam validation will be required using the RDA exam model
with the RDA Exam criteria. Rationale: It was determined that students need additional hands-
on experience completing an amalgam restoration using the RDA exam model.**

    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.**

3. What is the timeline for implementing these actions? **Changes to the multiple choice questions were
   addressed immediately. Additional classroom time will be allocated beginning with the Fall 2008
   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.
   **The Assessment tools for Outcomes 1-3 were effective in measuring student achievement. As mentioned
   previously, an identifiable standard of success will need to be better defined for Outcome 4.**

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: _Kathleen Lebbos_____ Date: _9/12/08_____
    Print/Signature

Department Chair: _Emma Joly_____ Date: _9/15/08_____
    Print/Signature

Dean: _____ Date: _9/15/08_____
    Print/Signature