COURSE: DHY 2240 Dental Materials

CREDITS: 1    CLASS HOURS PER WEEK: .5   LAB HOURS: 1.5   PREREQUISITE: DHY 1161

DESCRIPTION OF COURSE
This course is designed to study the chemical, physical and biological properties of materials used in dentistry. Emphasis will be placed on the manipulation and utilization of materials that have application to the dental hygienist.

STUDENT LEARNING OUTCOMES
1. The student will be able to identify the characteristics and properties of dental materials.
2. The student will be able to identify the characteristics and properties of gypsum materials.
3. The student will be able to recognize the characteristics and properties of impression materials.
4. The student will be able to identify the categories of fixed and indirect restorations and explain the process of casting a restoration.
5. The student will be able to list the uses of polymers for prosthetics.
6. The student will be able to identify the characteristics of trimmed and finished study casts.
7. The student will be able to demonstrate taking alginate impressions on a patient and identify the characteristics of an alginate impression.
8. The student will be able to identify the characteristics and uses of cements, bases, and liners.
9. The student will be able to identify and describe the types and characteristics of materials used for composite restorations.
10. The student will be able to identify the properties of amalgam restorations.
11. The student will be able to identify characteristics of periodontal dressing.
12. The student will be able to explain suture removal.
13. The student will be able to explain pulp testing.
14. The student will be able to identify recognize the characteristics of a tooth after orthodontic resin debonding.
15. The student will be able to explain the uses of preventative dental materials.
16. The student will be able to explain the properties and characteristics in placing sealant material.
17. The student will be able to explain the properties of tooth whitening materials and explain the process of making tooth whitening trays.
Upon completion of this course the student will be able to:

1. The student will be able to identify the characteristics of dental materials by:
   a. Identifying the four classes of materials.
   b. Identifying the structure of materials.
   c. Explaining the physical, mechanical and electrical properties of materials.

2. The student will be able to identify the properties and characteristics of both dental plaster and stone by:
   a. Identifying the properties and characteristics of dental plaster.
   b. Identifying the properties and characteristics of dental stone.
   c. Identifying the properties and characteristics of die stone.
   d. Demonstrating proper mixing of dental plaster and stone.

3. The student will be able to recognize the characteristics and properties of impression materials by:
   a. Listing the requirements for impression materials.
   b. Recognizing the classifications and uses of impression materials.
   c. Demonstrating of mixing and handling impression materials.

4. The student will be able to identify the categories of fixed and indirect restorations and explain the process of casting a restoration by:
   a. Recognizing the categories of alloys and those that are used in many applications of dentistry.
   b. Identifying the noble metals and base metals.
   c. Recognizing the major elements in alloys.
   d. Differentiating the characteristics of ceramics and porcelain.
   e. Differentiating the differences between pattern waxes and processing waxes.
   f. Identifying when to use pattern waxes and processing waxes and impression waxes.
   g. Explaining the types of waxes and the properties.
   h. Explaining how to cast dental materials and the process involved in it.

5. The student will be able to list the uses of polymers for prosthetics by:
   a. Differentiating the differences between synthetic resin and plastic.
   b. Explaining the uses of polymers in dentistry.
   c. Explaining the requisites for dental resin.
   d. Identifying the polymerization process, composition, and properties.

6. The student will be able to identify the characteristics of trimmed and finished study casts by:
   a. Identifying a complete set of casts; upper and lower.
   b. Identifying casts free from air bubbles and voids.
   c. Identifying casts that are stable and rest on all sides.
   d. Demonstrating finishing a set of study casts.

7. The student will be able to successfully take alginate impressions on a patient by:
   a. Identifying upper and lower impressions that are free of voids or tears.
   b. Identifying impressions that are centered in the tray and all the teeth are clearly outlined in the impression.
c. Demonstrating how to mix, and take accurate alginate impressions and following infection control procedures.

8. The student will be able to identify the characteristics and uses of cements, bases, and liners by:
   a. Identifying the role of intermediary materials in minimizing the occurrence of secondary caries or postoperative sensitivity.
   b. Identifying the three intermediary materials.
   c. Differentiating the uses, types and characteristics of each intermediary material.
   d. Explaining the formulation of cements.
   e. Demonstrating how to mix cements, bases, and liners.

9. The student will be able to identify and describe the types and characteristics of materials used for composite restorations by:
   a. Identifying the various types of materials used for composite restorations.
   b. Explaining the characteristics and properties of each composite restorative material.
   c. Demonstrating how to effectively place, finish, and polish composite restorations.

10. The student will be able to identify the properties of amalgam restorations by:
    a. Identifying the properties of amalgam restorations.
    b. Explaining the manipulation of amalgam restorations.
    c. Differentiating the metals that make up an alloy such as amalgam.
    d. Demonstrating how to effectively place, finish, and polish amalgam restorations.

11. The student will be able to identify the characteristics of periodontal dressing by:
    a. Identifying the properties of the material associated with periodontal dressing.
    b. Identifying the materials used in mixing and placing periodontal dressing.
    c. Demonstrating how to mix and place periodontal dressing.

12. The student will be able to explain suture removal by:
    a. Identifying the materials associated with sutures.
    b. Identifying the proper armamentarium needed to safely remove sutures.
    c. Demonstrating removing sutures.

13. The student will be able to explain the various methods of pulp vitality testing by:
    a. Identifying the various methods for assessing pulp vitality.
    b. Demonstrating competent pulp vitality testing techniques.
    c. Explaining the appropriate documentation of the pulp testing findings.

14. The student will be able to recognize the characteristics of orthodontic resin debonding by:
    a. Explaining the rationale for removing composite adhesive resin from the teeth after orthodontic treatment.
    b. Explaining the clinical objectives for debonding.
    c. Explaining follow-up considerations to be discussed with the newly debonded orthodontic patient.

15. The student will be able to explain the uses of dental materials by:
    a. Explaining the objectives to preventative dental materials.
b. Identifying the types of fluoride gels, rinses, and varnishes.
c. Explaining when to recommend a mouth protector.
d. Differentiating the types of mouth protectors.

16. The student will be able to explain the properties and characteristics in placing sealant material by:
   a. Demonstrating and explaining the proper placement of pit and fissure sealants.
   b. Explaining the proper use of pit and fissure sealant.

15. The student will be able to explain the properties of tooth whitening materials and explain the process of making tooth whitening trays by:
   a. Identifying the types of whitening materials available for patients.
   b. Explaining the properties of whitening materials.
   c. Demonstrating fabrication of whitening trays

Units
1. Properties of Dental Materials
2. Gypsum materials
3. Impression materials
4. Restorations
5. Polymers
6. Finished study casts
7. Alginate impressions
8. Cements, bases, and liners
9. Composite restorations
10. Amalgam restorations
11. Periodontal dressings
12. Suture removal
13. Pulp Vitality
14. Orthodontic Debonding
15. Preventative dental materials
16. Sealant materials
17. Whitening materials

GENERAL EDUCATION OUTCOMES
Columbus State Community College's general education outcomes are an integral part of the curriculum and central to the mission of the college. The faculty at Columbus State has determined that these outcomes include the following competencies:

- Critical Thinking

COURSE MATERIALS REQUIRED
1. A large binder for handouts and unit outlines.
2. If any student does not have personal access to a computer or the Internet, CSCC offers accessibility through Cougar Net (614-287-5050) or free access on campus at the ERC (Library) or all computer labs located on campus, and at off-campus sites. Labs and phone numbers are listed in the student handbook and academic planner.
TEXTBOOK, MANUALS, REFERENCES, AND OTHER READINGS

GENERAL INSTRUCTIONAL METHODS
Online Lecture, Laboratory Participation, Class Discussion, Videos, Demonstration, Guest Speakers, and Group Interaction.

ASSESSMENT
Columbus State Community College is committed to assessment (measurement) of student achievement of academic outcomes. This process addresses the issues of what you need to learn in your program of study and if you are learning what you need to learn. The assessment program at Columbus State has four specific and interrelated purposes: (1) to improve student academic achievements; (2) to improve teaching strategies; (3) to document successes and identify opportunities for program improvement; (4) to provide evidence for institutional effectiveness. In class you are assessed and graded on your achievement of the outcomes for this course. You may also be required to participate in broader assessment activities.

STANDARDS AND METHODS FOR EVALUATION

<table>
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<tr>
<th>Component</th>
<th>Points</th>
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<tr>
<td>Chapter Tests (3)</td>
<td>90</td>
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<tr>
<td>Quiz (5)</td>
<td>60</td>
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<tr>
<td>Essay (1)</td>
<td>20</td>
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<tr>
<td>Written Assignments (3)</td>
<td>60</td>
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<tr>
<td>Discussion Board (4)</td>
<td>80</td>
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<td>Learning Activities (2)</td>
<td>40</td>
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<tr>
<td>Clinical Competency</td>
<td>S/U</td>
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<td>Lab Evaluations (9)</td>
<td>S/U</td>
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<td>Skill Check-off (2)</td>
<td>S/U</td>
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<tr>
<td>Comprehensive Final Exam</td>
<td>100</td>
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<tr>
<td>Comprehensive Practical Lab Examination</td>
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<td>500</td>
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Upon completion of this course the student will have mastered the stated outcomes with a 75% as the final grade to pass the course.

GRADING SCALE
A = 93-100%                              A = 465-500
B = 84-92%                               B = 420-464.99
C = 75-83%                               C = 375-419.99
D = 66-74%                               D = 330-347.99
E = Below 66%                            E = below 330
Grades
1. Grades will be posted on BlackBoard.
2. No make-up quizzes or evaluations will be permitted in this course unless approved under extreme life circumstances approved by the program coordinator.
3. There will be no extra credit available.

SPECIAL COURSE REQUIREMENTS

1. Students are to log onto Blackboard to check announcements and emails.
2. Students must achieve at least a 75% on all assessment. According to program policy, there is no make-up without the approval of the program coordinator. See student handbook.
3. Cheating or plagiarism is grounds for dismissal from the program (Student handbook). If students discuss assignments, this is considered plagiarism. No discussion or collaboration without my permission is acceptable. Nor is any discussion regarding online assignments.
4. Chapter Tests:
   There will be three chapter tests worth 30 points each. Chapter Test 1 covers properties of dental materials, gypsum materials, and impression materials. Chapter Test 2 covers composite materials, cements, bases, liners, materials for fixed indirect restorations and polymers for prosthesis. Chapter Test 3 covers amalgam restorations, and preventative dental materials. Each test will cover the material from weekly power-point lectures and the assigned readings in the text. The type of format for the chapter tests is multiple choices.
   The student neglecting to take the test on the given day will be given a zero (0), with no makeup or exceptions.
5. Quizzes:
   There will be six quizzes, one through four worth 10 points each and quiz five/six worth 20 points. Quiz 1 covers gypsum and impression materials. Quiz 2 covers trimming study casts. Quiz 3 covers cements, bases, liners, and composite restorations. Quiz 4 covers amalgam restorations. Quiz 5-6 covers sealant materials and whitening materials. No make-up quizzes will be permitted.
6. Essay:
   There will be one essay, worth 20 points. The student will be required to write a brief scenario about Preventative Dental Materials and how valuable this information is in treating the patient. The information in the scenarios will include but not be limited to: whitening trays, sealants, mouth guards. No discussion or collaboration without my permission!
The papers are required to be submitted on Blackboard Assignment Manager before the final exam. **Any student failing to submit his or her test will be given a grade of zero (0) with no exceptions.**

7. **Lab Evaluations:**
   Nine Lab Evaluations will be given. The student will be evaluated at the time the skill is being performed. After demonstration and instruction, the student will practice the skill then perform the skill for evaluation. No make-up evaluations will be permitted.

   Lab evaluations:
   
   1. Alginate Impressions
   2. Cements, Bases, and Liners
   3. Composite Restorations
   4. Study Casts
   5. Amalgam Restorations
   6. Periodontal Dressing
   7. Suture Removal
   8. Sealant Placement
   9. Whitening Trays

8. **Clinical Competency:**
   Placement of sealants on each other will be performed to clinical competency. A grade of S or U will be given on the sealant competency.

9. **Comprehensive Final Examination:**
   There will be one (1) multiple-choice question Final Exam, 100 questions/ 1 point each.

10. **Comprehensive Practical Lab Examination:**
    The practical exam will be stations with various type questions and identification of dental materials.

11. **Assignments:**
    1. The students will be required to watch the Alginate Impression video prior to DHY 2240 Lab, (Week 6). The students will write a summary describing what they learned to be valuable techniques to take ideal impressions. The summary is worth 20 points. The paper will be submitted on Blackboard Assignment Manager according to the due date indicated on Blackboard. No discussion or collaboration without my permission!

    2. The students will be required to watch the Periodontal Dressing video. The students will write a brief paper defining the procedures necessary for placing and removing periodontal dressing. Each paper is worth 20 points. The papers will be submitted on Blackboard Assignment Manager according to the due date indicated on Blackboard. No discussion or collaboration without my permission!

    3. The students are required to watch the Suture Removal video. The students will write a brief paper describing the technique to removing sutures. Each paper is worth 20 points. The papers will be submitted on Blackboard Assignment Manager according
to the due date indicated on Blackboard. No discussion or collaboration without my permission!

12. Discussion Boards:
The students are required to participate in four (4) discussion boards. Topics for discussion board are on the following: gypsum materials, impression materials, cements, bases, and liners, and composite materials. The students will post a discussion narrative pertaining to the topic. The student is required to respond to one (1) of their classmate’s discussion giving feedback. This will assist in the learning process of dental materials. Topics for Discussion Board are the following: 1. Gypsum materials. 2. Impression materials. 3. Cements, bases, and liners. 4. Composite materials.

13. Learning Activities:
The students are required to participate in two (2) learning activity projects. The students will follow the guidelines as indicated in their book with the accompanying chapter to complete the learning activity. The student will work with a DHY 2240 Lab partner to complete this activity project; each one submitting their own project paper. Completing this activity project will require the student to read the accompanying chapter in its entirety to be successful in communicating this project. Learning activity 1 will ask the student to observe an amalgam restoration and discuss the advantages of using amalgam versus other restorative materials. Learning activity 2 will ask the student to provide patient education for mouth guards, whitening trays, and fluoride trays.

ATTENDANCE POLICY
The student is to be active in the online classroom in order to complete assignments on time.

STUDENT CODE OF CONDUCT
As an enrolled student at Columbus State Community College, you have agreed to abide by the Student Code of Conduct as outlined in the Student Handbook. You should familiarize yourself with the student code. The Columbus State Community College expects you to exhibit high standards of academic integrity, respect and responsibility. Any confirmed incidence of misconduct, including plagiarism and other forms of cheating, will be treated seriously and in accordance with College Policy and Procedure 7-10.

AMERICANS WITH DISABILITIES ACT (ADA) POLICY
It is Columbus State policy to provide reasonable accommodations to students with documented disabilities. If you would like to request such accommodations because of physical, mental or learning disability, please contact the Department of Disability Services, 101 Eibling Hall, 614.287.2570 (V/TTY). Delaware Campus students may also contact an advisor in
INCLEMENT WEATHER OR OTHER EMERGENCIES
In the event of severe weather or other emergencies that could force the college to close or to cancel classes, such information will be broadcast on radio stations and television stations. Students who reside in areas that fall under a Level III emergency should not attempt to drive to the college even if the college remains open.

Assignments due on a day the college is closed will be due the next scheduled class period. If an examination is scheduled for a day the campus is closed, the examination will be given on the next class day. If a laboratory is scheduled on the day the campus is closed, it will be made up at the next scheduled laboratory class. If necessary, laboratory make-up may be held on a Saturday.

Students who miss a class because of weather-related problems with the class is held as scheduled are responsible for reading and other assignments as indicated in the syllabus. If a laboratory or examination is missed, contact me as soon as possible to determine how to make up the missed exam or lab. Remember! It is the student’s responsibility to keep up with reading and other assignments when a scheduled class does not meet, whatever the reason.

In the event the college is forced to close during Final Examination Week, exams scheduled for the first missed date will be rescheduled.

FINANCIAL AID ATTENDANCE REPORTING
Columbus State is required by federal law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through the Department of Veterans Affairs. It is the responsibility of the College to identify students who do not commence attendance or who stop attendance in any course for which they are registered and paid. Non-attendance is reported each term by the instructor, and results in a student being administratively withdrawn from the class section. Please contact the Financial Aid Office for information regarding the impact of course withdrawals on financial aid eligibility.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>UNIT OF INSTRUCTION</th>
<th>LEARNING OBJECTIVES/GOALS</th>
<th>ASSESSMENT METHODS</th>
<th>ASSIGNMENTS</th>
<th>ASSIGNMENT DUE DATE</th>
</tr>
</thead>
</table>
| Week 1 | Properties of dental materials | **1. The student will be able to identify the characteristics of dental materials by:**  
|       |                          | a. Identifying the four classes of materials.  
|       |                          | b. Identifying the structure of materials.  
|       |                          | c. Explaining the physical, mechanical and electrical properties of materials.                                                                                                                                     | Chapter Tests  
|       |                          | Essay  
|       |                          | Comprehensive Final Exam                                                                                                                                            | Gladwin and Bagby, Chapters 1, 2, 3. |                                                                                                   |                     |
| Week 2 | Gypsum Materials         | **2. The student will be able to identify the properties and characteristics of both dental plaster and stone by:**  
|       |                          | a. Identifying the properties and characteristics of dental plaster.  
|       |                          | b. Identifying the properties and characteristics of dental stone.  
|       |                          | c. Demonstrating proper mixing of dental plaster and stone.                                                                                                          | Discussion Board  
|       |                          | Chapter Tests  
|       |                          | Quiz  
|       |                          | Essay  
|       |                          | Comprehensive Final Exam                                                                                                                                            | Gladwin and Bagby, Chapter 9.  
|       |                          | Laboratory Manual: Read Gypsum Materials.                                                                                                                              | Discussion board 1: Gypsum materials |                                                                                                   |                     |
| Week 3 | Impression Materials     | **3. The student will be able to recognize the characteristics and properties of impression materials by:**  
|       |                          | a. Listing the requirements for impression materials.  
|       |                          | b. Recognizing the classifications and uses of impression materials.  
|       |                          | c. Demonstrating mixing and handling of impression  
|       |                          | Discussion Board  
|       |                          | Chapter Tests  
|       |                          | Quiz  
|       |                          | Lab Practical  
|       |                          | Comprehensive Final Exam                                                                                                                                            | Gladwin and Bagby, Chapters 8, 27, and 30.  
<p>|       |                          | Laboratory Manual: Read Alginate Impression on a typodont PPT.                                                                                                          | Discussion board 2: Impression materials |                                                                                                   |                     |</p>
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<tr>
<th>Week 4</th>
<th>Restorations</th>
<th>Polymers</th>
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4. **The student will be able to identify the categories of fixed and indirect restorations and explain the process of casting a restoration by:**
   a. Recognizing the categories of alloys and those that are used in many applications of dentistry.
   b. Identifying the noble metals and base metals.
   c. Recognizing the major elements in alloys.
   d. Differentiating the characteristics of ceramics and porcelain.
   e. Differentiating the differences between pattern waxes and processing waxes.
   f. Identifying when to use pattern waxes and processing waxes and impression waxes.
   g. Explaining the types of waxes and the properties.
   h. Identifying how to cast dental materials and the process involved in it.

5. **The student will be able to list the uses of polymers for prosthetics by:**
   a. Identifying the difference between synthetic resin and plastic.
   b. Differentiating the uses of polymers in dentistry.
   c. Explaining the requisites for

<table>
<thead>
<tr>
<th>Chapter Tests</th>
<th>Quiz</th>
<th>Lab Evaluation</th>
<th>Comprehensive Practical Lab Final</th>
<th>Comprehensive Final Exam</th>
<th>Gladwin and Bagby, Chapters 10 and 11, and 28 Laboratory Manual: Read Trimming Study Cast PPT</th>
</tr>
</thead>
</table>
| Week 5  | Alginate Impressions | 7. The student will be able to successfully take alginate impressions on a patient by:  
  a. Identifying upper and lower impressions that are free of voids or tears.  
  b. Identifying impressions that are centered in the tray and all the teeth are clearly outlined in the impression.  
  c. Demonstrating how to mix, and take accurate alginate impressions and flowing infection control procedures. | Discussion Board  
  Chapter Tests  
  Quiz  
  Written Assignment  
  Lab Evaluation  
  Lab Practical  
  Comprehensive Final  
  Exam | Gladwin and Bagby, Chapter 27. Alginate Impression Video  
  Laboratory Evaluation: Alginate impressions.  
  Written assignment: Alginate impression video. |
|-------|---------------------|-------------------------------------------------|-------------------------------------------------|
| Week 6 | Dental Cements      | 8. The student will be able to identify the characteristics and uses of cements, bases, and liners by:  
  a. Identifying the role of | Discussion Board  
  Chapter Tests  
  Quiz  
  Lab Evaluation | Gladwin and Bagby, Chapter 7, 23, and 24.  
  Laboratory Manual: Read  
  Quiz 2: Trimming study casts.  
  Laboratory Evaluation: |
Orthodontic Debonding

<table>
<thead>
<tr>
<th>9. The student will be able to identify the characteristics of debonding orthodontic resins by:</th>
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<tbody>
<tr>
<td>a. Discussing the caries risk of orthodontic patients and the dental hygienist’s role in preventing caries and periodontal disease in these patients</td>
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<tr>
<td>b. Explain the rationale for removing composite adhesive resin from the teeth after orthodontic treatment</td>
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<td>c. Discussing the clinical objectives for debonding</td>
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<td>d. Demonstrating each step in the debonding procedure.</td>
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<td>e. Explaining the follow-up considerations to be discussed with the newly debonded</td>
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<thead>
<tr>
<th>Lab Practical Comprehensive Final Exam Skill Check-off</th>
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<tbody>
<tr>
<td>Cements, bases, and liners PPT and Orthodontic PPT.</td>
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<thead>
<tr>
<th>Cements, bases, and liners. Discussion board 3: Cements, bases, and liners.</th>
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<tr>
<td>Orthodontic Skill Check-off</td>
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<tr>
<td>Week 7</td>
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| Week 8 | Dental Amalgam | 12. The student will be able to identify the properties of amalgam restorations by:  
| a. Identifying the properties of amalgam restorations.  
| b. Explaining the manipulation of amalgam restorations.  
| c. Identifying the metals that make up an alloy such as amalgam.  
| d. Demonstrating how to effectively place, finish, and polish amalgam restorations.  
| 13. The student will be able to identify the characteristics of periodontal dressing by:  
| a. Identifying the properties of the material associated with periodontal dressing.  
| b. Identifying the materials used in mixing and placing periodontal dressing.  
| c. Demonstrating how to mix and place periodontal dressing.  
| 14. The student will be able to explain suture removal by:  
| a. Identifying the materials associated with sutures.  
| b. Identifying the proper armamentarium needed to safely remove sutures.  
| c. Demonstrating removing sutures.  
|  | Periodontal dressing |  |
|  | Suture removal |  |
| Week 9 | Preventative Dental | 15. The student will be able to explain the uses of dental materials by:  
|  |  | Discussion Board  
|  |  | Chapter Tests  
|  |  | Quiz  
|  |  | Lab Practical  
|  |  | Comprehensive Final  
|  |  | Comprehensive Final Exam  
|  |  | Skill Check-off  
|  |  | Gladwin and Bagby, Chapters 6, 16, and 26.  
|  |  | Laboratory Manual: Read Dental Amalgam PPT, Periodontal Dressing PPT, and Suture Removal PPT.  
|  |  | Chapter test 2: Composite materials, cements, bases, liners, materials for fixed indirect restorations and polymers for prosthesis.  
|  |  | Quiz 4: Amalgam restorations.  
|  |  | Laboratory Evaluations: Amalgam restorations, periodontal dressing, suture removal, and finished study casts.  
|  |  | Learning Activity 1: Amalgam restorations advantages of its use.  
|  |  | Written assignment 1: Periodontal dressing video.  
|  |  | Written assignment 2: Suture removal video.  
|  |  | Quiz 5/6: Sealant materials and
| Week 10 | Sealant placement on a patient | 18. The student will accurately place sealant material and cure to completion using a curing light on their patient in the pre-clinic under the supervision of a dentist. | Discussion Board Chapter Tests Quiz Comprehensive Final Exam Clinical Competency Written essay | Chapter test 3: Amalgam restorations, and preventative dental materials. Clinical Competency; | 2013-2014 |
Sealant placement on a patient.

Essay: Written paper describing the use of dental materials for the patient scenario selected.

Week 11  Finals Week

Friday, Aug 3 at 1 PM

DHY 2240 DENTAL MATERIALS

I, ________________________________, have read and listened to the explanation of the syllabus for (print name)

DHY 2240; Dental Materials. The course instructor has given me the opportunity to ask questions regarding the course syllabus. I comprehend what is expected of me to be successful in DHY 2240.

Signed: ________________________________ Date: ________________________________

(signature)

Please return the signed original document to Ms. Furlow by May 24, 2013 at 4:00pm.