

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Health Sciences: Allied Health

##### Submitter

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**Course Prefix and Number:** DA - 107

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**# Credits:** 2

##### Contact hours

Lecture (# of hours): 22  
Lec/lab (# of hours):  
Lab (# of hours):  
Total course hours: 22

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

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**Course Title:** Dental Materials I

##### Course Description:

This course is an in-depth level of instruction in the composition and manipulation of dental restorative materials, and dental cements. Examination of general dentistry and chairside assisting with direct permanent restorations such as amalgam and composite will also be covered.

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**Type of Course:** Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

**No**

Does this course map to any general education outcome(s)?

**No**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):** Dental Assistant Certificate

Are there prerequisites to this course?

**No**

Are there corequisites to this course?

**Yes**

**Co-reqs:** DA-107L

Are there any requirements or recommendations for students taken this course?

**Yes**

**Recommendations:** None

**Requirements:** Admission into Dental Assistant program. Instructor consent.

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**Yes**

**Have you talked with a librarian regarding that impact?**

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

**GRADING METHOD:**

A-F Only

**Audit:** No

When do you plan to offer this course?

✓ **Fall**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

**No**

Will this course appear in the college catalog?

**Yes**

Will this course appear in the schedule?

**Yes**

**Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. classify dental instruments according to their use,
2. identify the equipment and supplies necessary for a class I amalgam restoration,
3. discuss the procedure for a class I amalgam restoration,
4. utilize Black's classification of caries and restorations for a class I and class II restoration,
5. state the concept of aseptic procedures prior to, during and after assisting with a restorative procedure;
6. name the burs used for specific tooth preparation and restoration,
7. tell the importance of mercury hygiene in the dental office,
8. categorize dental materials according to function and use,
9. discuss the goal of ergonomics during dental procedures,
10. discuss the use of the oral evacuation system and air-water syringe,
11. identify the equipment and supplies necessary for a class III and IV composite restoration,
12. explain pre- and post-operative instructions for both an amalgam and composite restoration,
13. summarize the use of protective bases, insulating bases and sedative bases as a means of providing pulpal protection;
14. discuss the use of dental cements in dentistry.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. The role of the dental assistant
2. Properties of dental materials
3. Types of restorative dental materials and specific applications
4. Composition, properties and manipulation of dental materials and cements
5. Composition, properties and manipulation of bonding agents
6. Restorative dentistry
  - a. Amalgam restorative procedures
  - b. Composite restorative procedures
7. Ergonomics
  - a. Team positioning
  - b. Motion economy

**Does the content of this class relate to job skills in any of the following areas:**

- |                                |           |
|--------------------------------|-----------|
| 1. Increased energy efficiency | <b>No</b> |
| 2. Produce renewable energy    | <b>No</b> |

- 3. Prevent environmental degradation **No**
- 4. Clean up natural environment **No**
- 5. Supports green services **No**

Percent of course: 0%

First term to be offered:

**Specify term:** Fall 2017

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