Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT.  DEN  COURSE NUMBER: 1140

NUMBER OF CREDITS: __3___ Lecture: __2___ Lab: _1___

<table>
<thead>
<tr>
<th>Course Title:</th>
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<tbody>
<tr>
<td>Dental Materials</td>
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<tr>
<th>Catalog Description:</th>
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<tr>
<td>This course will cover materials used in dentistry. It will include information on properties as well as practical lab applications of the materials.</td>
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FULFILLS MN TRANSFER CURRICULUM AREA(S)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:
### Prerequisites or Necessary Entry Skills/Knowledge:

Students must meet one of the following placement measures:

- A score of 50 - 77 on test ACCUPLACER Classic Reading Comprehension
- A score of 233 - 249 on test ACCUPLACER Next-Gen Reading Comprehension
- A score of 16 - 17 on test ACT English
- A score of 14 - 20 on test ACT Reading
- ENGL 0090 – Essentials of Writing I

### Topics to be Covered

1. Laboratory equipment and safety
2. Properties of dental materials
3. Gypsum
4. Impression trays and waxes
5. Impression materials
6. Dental cements
7. Restorative materials

### Student Learning Outcomes

1. Demonstrate laboratory safety measures
2. Describe properties of dental materials
3. Describe the properties and composition of the following materials
   - a. Gypsum
   - b. Impression materials
   - c. Cements
   - d. Restorative materials
   - e. Tray materials and waxes
4. Demonstrate the use of the following materials
   - a. Gypsum
   - b. Impression materials
   - c. Cements
   - d. Restorative materials
   - e. Tray materials and waxes

### Is this course part of a transfer pathway: Yes ☐ No ☒

Revised 4/2020