# DA 154: Dental Materials and Procedures

<table>
<thead>
<tr>
<th><strong>Semester &amp; Year:</strong></th>
<th>Fall 2016</th>
</tr>
</thead>
</table>
| **Course ID and Section Number:** | E01186 (041186) Morning Lab  
E1206(041206) Afternoon Lab |
| **Number of Credits/Units:** | 3 Units – Lecture and Lab |
| **Day/Time/Location:** | Lecture - Tuesdays – 12:00 pm to 2:35 pm in AT 115  
Morning Lab - Tuesdays – 8:30 am to 11:35 am in AT 112  
Afternoon Lab - Tuesdays – 2:10 pm to 5:10 pm in AT 112 |
| **Instructor Information:** | Hillary Reed, RDAEF, CDA, COA, CDPMA, CPDA  
Dental Assisting Program Coordinator |
| **Contact Information:** | Office location: AT 101  
Office hours: Tuesdays, Thursdays, and Fridays by appointment  
Phone: 476-4253  
Email: hillary-reed@redwoods.edu |
| **Absence Notification:** | Absences are not excused and must be reported ½ hour prior to the beginning of class. In the event of emergency contact 476-4250. Excessive absences will result in Program dismissal. |

## Course Description:
A basic introduction to materials as applicable to dental assisting. Implementation of safety measures and technique development are emphasized in utilizing common products in clinical dentistry. Customary duties are practiced in preparation for clinical competency in patient care.

### Student Learning Outcomes:
1. Apply occupational health and safety standards.
2. Safely and correctly set-up, prepare, assist, apply and/or perform the permitted duties (as allowed by the California Dental Practice Act) common to clinical and laboratory duties associated with general dentistry to pre-clinical competence level.

### Required Text and Supplies:
- Dental Assisting Program Handbook
- Uniform and Smart Practice Lab Kit as specified in the Program Handbook

### Academic Standards and Policies:
Students are expected to adhere to all requirements, policies, and rules provided in the Dental Assisting Program Student Handbook given at orientation and College of the Redwoods 2016/2017 Catalog.
All students have signed acknowledgement that they have received, read and agreed to detailed information provided in the Dental Assisting Program Handbook regarding program of study, information, notifications, requirements, policies, rules and disciplinary actions. Please regularly refer and review your Handbook.

Co-Requisites

The Dental Assisting Program of Study requires the cohort of students to enroll in DA 153, DA 154, DA 155, and DA 156 concurrently. This is a Dental Board of California (DBC) and Commission on Dental Accreditation (CODA) requirement. Curriculum reiterates and combines concepts, information, and proficiencies from other courses to prepare students for the clinical setting.

Teaching Methods

Connecting textbook standards to practical application in the clinical setting is instrumental in developing as a dental assistant. Following directions, comprehending information, performing skills proficiently, achieving consistent quality control and exhibiting teamwork are all critical when performing in the workforce. To be successful students are to have read and prepared course materials prior to the beginning of class. Class sessions are primarily used as a tool of clarification, followed by a wide array of activities, assignments, and hands-on applications preparing students for the clinical setting.
Work Readiness Program

To be successful in the workforce, students have to develop skill sets and healthy work habits necessary for lasting employment.

Students are awarded five Pay Day Points for full participation in the activities and tasks assigned to each class session (lab and lecture and clinical), where all requirements, policies, and rules are followed as stated in the Program Handbook. Students begin the course with zero Pay Day Points. Pay Day points will be factored into the course grade.

Students not participating in activities or tasks or not following requirements, policies, and rules or who are absent will not acquire any Pay Day Points for that class session(s). This includes those that are tardy or leave early.

Additionally disciplinary action (as outlined in the Program Handbook) for the second, third, and fourth offense will affect the final course grade negatively. Students averse to developing the necessary skill sets and/or healthy work habits are able to have a deficit in Work Readiness Points that will affect their grade negatively.

Lecture and Lab Preparation

All Performance Outcomes and end of the chapter Procedures should be read and reviewed prior to lab. Performance Outcomes and Procedure steps are used to determine student’s competency level prior to performing in the clinical setting. Students must demonstrate preclinical competence in performing these procedures prior to clinical practice without assistance from an instructor or staff member.

Learning Outcomes are located in the Modern Dental Assisting 11th Edition textbook at the beginning of each assigned chapter. Key Terms, Learning Outcomes, Electronic Resources, and notes should be used to study for written quizzes and exams.

Dental Assisting Program Grading Scale

The Commission on Dental Accreditation and the Dental Board of California require the lecture and lab grade to be 75% or better. The Dental Assisting Program courses are sequential and have co-requisites. Students not passing a course(s) cannot continue and are dismissed from the Program.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>96-100</td>
<td>Outstanding progress</td>
</tr>
<tr>
<td>A-</td>
<td>90-95</td>
<td>Outstanding progress</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
<td>Above average progress</td>
</tr>
<tr>
<td>B</td>
<td>84-86</td>
<td>Above average progress</td>
</tr>
<tr>
<td>B-</td>
<td>81-83</td>
<td>Average Progress</td>
</tr>
<tr>
<td>C+</td>
<td>78-80</td>
<td>Satisfactory Progress</td>
</tr>
<tr>
<td>C</td>
<td>75-77</td>
<td>Lowest acceptable Progress</td>
</tr>
<tr>
<td>D</td>
<td>65-74</td>
<td>No progression, Failure</td>
</tr>
<tr>
<td>F</td>
<td>&lt;65</td>
<td>Failure</td>
</tr>
<tr>
<td>W</td>
<td>N/A</td>
<td>Official Withdrawal</td>
</tr>
</tbody>
</table>
Course Requirements

<table>
<thead>
<tr>
<th>Points Possible:</th>
<th>Points Earned:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay Day - Work Readiness Points</td>
<td>150</td>
</tr>
<tr>
<td>2 Group Projects (50 points each)</td>
<td>100</td>
</tr>
<tr>
<td>5 Quizzes (40 points each)</td>
<td>200</td>
</tr>
<tr>
<td>3 Written Exams (150 points each)</td>
<td>450</td>
</tr>
<tr>
<td>1 Written Final Exam</td>
<td>500</td>
</tr>
<tr>
<td>3 Procedure Operatory Set-up Exams (75 points each)</td>
<td>225</td>
</tr>
<tr>
<td>1 RDA Skills Worksheet</td>
<td>100</td>
</tr>
<tr>
<td>5 RDA Skills Exams (100 points each)</td>
<td>500</td>
</tr>
<tr>
<td>1 Practical Final Exam</td>
<td>500</td>
</tr>
<tr>
<td><strong>Total Points Possible:</strong></td>
<td><strong>2725</strong></td>
</tr>
</tbody>
</table>

Grades are entered in Canvas as a convenience to the student in assisting with determining their grade. To calculate your grade add up all points earned, subtract any work readiness points deducted and divide total by the points possible to determine the percentage (%). Use the grading scale provided above to determine your letter grade.

Course Content Outline
Schedule of Activities and Assignments

**Week 1**

**Unit: Infection Prevention and Safety Compliance**

**Tuesday, August 30 (Lecture)**

*Textbook reading assignment in preparation for lecture class:*
  - Chapter 22 Regulatory and Advisory Agencies
  - Chapter 23 Chemical and Waste Management
  - Chapter 19 Disease Transmission and Infection Prevention

**Tuesday, August 30 (Lab)**

*Textbook Procedure Competencies: 19-1, 19-2, 19-3, 19-4, 19-5, 23-1*

**Week 2**

**Unit: Infection Prevention and Safety Compliance**

**Tuesday, September 6 (Lecture)**

*Textbook reading assignment in preparation for lecture class:*
  - Chapter 23 Chemical and Waste Management
  - Chapter 21 Principles and Techniques of Instrument Processing
  - Chapter 20 Principles and Techniques of Disinfection
  - Chapter 24 Dental Unit Waterlines

**Tuesday, September 6 (Lab)**

*Textbook Procedure Competencies: 20-1, 20-2, 21-1, 21-2, 21-5, 21-6, 21-7*
Week 3

Unit: Infection Prevention and Safety Compliance

Tuesday, September 13 (Lecture)
GROUP PROJECT DUE - STERILIZER
QUIZ #1 (CH. 20-24)
Textbook reading assignment in preparation for lecture class:
- Chapter 21 Principles and Techniques of Instrument Processing
- Chapter 20 Principles and Techniques of Disinfection
- Chapter 24 Dental Unit Waterlines

Tuesday, September 13 (Lab)
RDA SKILLS TEST #1 – Instrument Processing and Sterilization
Textbook Procedure Competencies: 20-1, 20-2, 21-1, 21-2, 21-5, 21-6, 21-7, 24-1

Week 4

Unit: Materials in Clinical Dentistry

Tuesday, September 20 (Lecture)
EXAM #1 (CH. 20-24)
Textbook reading assignment in preparation for lecture class:
- Chapter 13 Dental Caries
- Chapter 14 Periodontal Disease
- Chapter 15 Preventative Dentistry

Tuesday, September 20 (Lab)
Textbook Procedure Competencies: 13-1, 13-2, 15-1, 15-2, 15-3, demonstrate disclosing, display oral hygiene instructions and proper technique to peer

Week 5

Unit: Materials in Clinical Dentistry

Tuesday, September 27 (Lecture)
QUIZ #2 (CH. 13, 14, 15)
Textbook reading assignment in preparation for lecture class:
- Chapter 43 Restorative and Esthetic Material
- Chapter 48 General Dentistry
- Chapter 49 Matrix Systems for Restorative Dentistry

Tuesday, September 27 (Lab)
RDA SKILLS TEST #2 – Oral Hygiene Instruction/techniques
RDA Skills Sheet Criteria
## Week 6

**Unit: Materials in Clinical Dentistry**

**Tuesday, October 4 (Lecture)**

*Textbook reading assignment in preparation for lecture class:*
- Chapter 43 Restorative and Esthetic Material
- Chapter 44 Dental Liners, Bases, and Bonding Systems
- Chapter 49 Matrix Systems for Restorative Dentistry

**Tuesday, October 4 (Lab)**

*Textbook Procedure Competencies: 43-1, 43-2, 43-4, 44-1, 44-2, 44-3, 44-7, 44-8, 49-1, 49-2, 49-3*

RDA Skills Sheet Criteria

## Week 7

**Unit: Materials in Clinical Dentistry**

**Tuesday, October 11 (Lecture)**

**QUIZ #3 (CH. 43, 44, 48)**

*Textbook reading assignment in preparation for lecture class:*
- Chapter 43 Restorative and Esthetic Material
- Chapter 44 Dental Liners, Bases, and Bonding Systems
- Chapter 49 Matrix Systems for Restorative Dentistry

**Tuesday, October 11 (Lab)**

**AMALAGAM and COMPOSITE PROCEDURE SET-UP EXAMS**

*Textbook Procedure Competencies: 43-1, 43-2, 43-4, 44-1, 44-2, 44-3, 44-7, 44-8, 49-1, 49-2, 49-3*

RDA Skills Sheet Criteria

## Week 8

**Unit: Materials in Clinical Dentistry**

**Tuesday, October 18 (Lecture)**

**EXAM #2 (CH. 13, 14, 15, 43, 44, 48, 49)**

*Textbook reading assignment in preparation for lecture class:*
- Chapter 43 Restorative and Esthetic Material
- Chapter 44 Dental Liners, Bases, and Bonding Systems
- Chapter 49 Matrix Systems for Restorative Dentistry

**Tuesday, October 18 (Lab)**

**RDA SKILLS TEST #3 – Matrix Systems, Liners, Bases, and Sedative Dressings**

*Textbook Procedure Competencies: 43-1, 43-2, 43-4, 44-1, 44-2, 44-3, 44-7, 44-8, 49-1, 49-2, 49-3*

RDA Skills Sheet Criteria
<table>
<thead>
<tr>
<th>Week 9</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit:</strong> Materials in Clinical Dentistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, October 25</strong> (Lecture)</td>
<td>Textbook reading assignment in preparation for lecture class:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 46 Impression Materials</td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, October 25</strong> (Lab)</td>
<td>Textbook Procedure Competencies: 46-1, 46-2, 46-3, 19-6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 10</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit:</strong> Materials in Clinical Dentistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 1</strong> (Lecture)</td>
<td>QUIZ #4 (CH. 46)</td>
<td></td>
</tr>
<tr>
<td>Textbook reading assignment in preparation for lecture class:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 46 Impression Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 47 Study Models Laboratory Materials and Procedures (pages 804-806 &amp; 812-815)</td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 1</strong> (Lab)</td>
<td>Textbook Procedure Competencies: 46-1, 46-2, 46-3, 47-2, 47-3, 47-4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 11</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit:</strong> Materials in Clinical Dentistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 8</strong> (Lecture)</td>
<td>GROUP PROJECT DUE – STUDY MODEL FABRICATION</td>
<td></td>
</tr>
<tr>
<td>Textbook reading assignment in preparation for lecture class:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 46 Impression Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 50 Fixed Prosthodontics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 51 Provisional Coverage</td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 8</strong> (Lab)</td>
<td>RDA SKILLS TEST #4 – Alginate Impressions</td>
<td></td>
</tr>
<tr>
<td>Textbook Procedure Competencies: 46-4, 46-5, 46-6, 46-7, 46-8, 50-2, 51-1, RDA Skills Sheet Criteria</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Week 12</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit:</strong> Materials in Clinical Dentistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 15</strong> (Lecture)</td>
<td>Textbook reading assignment in preparation for lecture class:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 50 Fixed Prosthodontics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 51 Provisional Coverage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chapter 45 Dental Cements</td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday, November 15</strong> (Lab)</td>
<td>CROWN and BRIDGE PREP PROCEDURE SET-UP EXAM</td>
<td></td>
</tr>
</tbody>
</table>
### Week 13

**Unit: Materials in Clinical Dentistry**

**Tuesday, November 22 (Lecture)**

**EXAM #3 (CH. 46, 50, 51, 47 – Study Models)**

*Textbook reading assignment in preparation for lecture class:*
  - Chapter 45 Dental Cements

**Tuesday, November 22 (Lab)**

**RDA SKILLS TEST #5 – Preliminary Impression, Temporary Fabrication, and Cementation**

*Textbook Procedure Competencies: 45-1, 45-2, 45-3, 45-4, 45-5, 45-6, 45-7, 50-3, RDA Skills Sheet Criteria*

### Week 14

**Unit: Materials in Clinical Dentistry**

**Tuesday, November 29 (Lecture)**

**QUIZ #5 (CH. 45)**

*Textbook reading assignment in preparation for lecture class:*
  - Chapter 45 Dental Cements
  - Chapter 47 Laboratory and Materials Procedures

**Tuesday, November 29 (Lab)**

*Textbook Procedure Competencies: 45-1, 45-2, 45-3, 45-4, 45-5, 45-6, 45-7, 47-5, 47-6, 47-7, 50-3***

**RDA Skills Sheet Criteria**

### Week 15

**Unit: Materials in Clinical Dentistry**

**Tuesday, December 6 (Lecture)**

*Textbook reading assignment in preparation for lecture class:*
  - Chapter 47 Laboratory and Materials Procedures

**Tuesday, December 6 (Lab)**

**FINAL PRACTICAL EXAM - CUMULATIVE**

**RDA SKILLS SHEET DUE**

### Week 16

**Tuesday, December 13 (Lecture)**

**FINAL WRITTEN EXAM –ALL INFECTION CONTROL CONTENT**

*(Cumulative Information from DA 153, DA 154, DA 156)*

**Special Note:**

The course instructor and/or the Program Coordinator have the right to at any time for any reason alter any content of the course syllabus without explanation. Course content alterations can only be done by faculty at their discretion.