<table>
<thead>
<tr>
<th>DA 155</th>
<th>Dental Radiography</th>
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<tr>
<td><strong>Semester &amp; Year:</strong></td>
<td>Fall 2016</td>
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| **Course ID and Section Number:** | E1187 (041187) Morning Lab  
E1207 (041207) Afternoon Lab |
| **Number of Credits/Units:** | 2 Units - Lecture and Lab |
| **Day/Time/Location:** | Lecture - Thursdays – 12:00 am to 1:05 pm in AT 115  
Morning Lab - Thursdays – 8:30 am to 11:35 am in AT 112  
Afternoon Lab - Thursdays – 1:10 pm to 4:15 pm in AT 112 |
| **Instructor Information:** | Hillary Reed, RDA, EF, CDA, COA, CDPMA, CPDA  
Dental Assisting Program Coordinator  
Teresa Moore, CDA, RDA  
Dental Assisting Program Faculty |
| **Contact Information:** | Office location: AT 101  
Office hours: Tuesdays, Thursdays and Fridays by appointment  
Phone: 476-4253 or 476-4250  
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 radiographic principles as applicable to dental assisting. Implementation of safety measures and skill development in intra-oral imaging are emphasized in exposing diagnostic quality radiographs. Customary duties are practiced in preparation for clinical competency in patient care. |
| **Student Learning Outcomes:** | 1. Apply occupational health and safety standards.  
2. Produce diagnostic quality intra-oral radiograph images in a safe and efficient manner placing in anatomic order for proper viewing and interpretation in patient care. |
| **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. |
| **Academic Misconduct:** | Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an “F” in the course.  
The student code of conduct is available on the College of the Redwoods website at:  
Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage. |
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 refer and review your Handbook regularly.

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.

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.

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), 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>
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<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,</td>
</tr>
<tr>
<td>F</td>
<td>&lt;65</td>
<td>Failure</td>
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<tr>
<td>W</td>
<td>N/A</td>
<td>Official Withdrawal</td>
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Course Requirements

<table>
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<tr>
<th>Points Possible:</th>
<th>Points Earned:</th>
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<tbody>
<tr>
<td>Work Readiness Points</td>
<td>150</td>
</tr>
<tr>
<td>4 Quizzes (40 points each)</td>
<td>160</td>
</tr>
<tr>
<td>2 Written Exams (150 points each)</td>
<td>300</td>
</tr>
<tr>
<td>1 Written Final Exam</td>
<td>500</td>
</tr>
<tr>
<td>2 Practical Exams (50 points each)</td>
<td>100</td>
</tr>
<tr>
<td>4 Skills Exams (50 points each)</td>
<td>200</td>
</tr>
<tr>
<td>2 Lab Assignment Bitewing Series Evaluations Dexter (20 points each)</td>
<td>40</td>
</tr>
<tr>
<td>1 Lab Assignment Full Mouth Series Evaluation Dexter</td>
<td>90</td>
</tr>
<tr>
<td>1 Clinical Full Mouth Series Evaluations (90 points)</td>
<td>90</td>
</tr>
<tr>
<td>1 Practical Final Exam</td>
<td>500</td>
</tr>
<tr>
<td><strong>Total Points Possible:</strong></td>
<td><strong>2130</strong></td>
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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, Radiation Protection and Safety Compliance

Thursday, September 1 (Lecture)
Textbook reading assignment in preparation for lecture class:
- Chapter 38 Foundations of Radiography, Radiographic Equipment, and Radiation Safety
- Chapter 40 Legal Issues, Quality Assurance, and Infection Prevention

Thursday, September 1 (Lab)
Textbook Procedure Competencies: 40-1, 40-2, 41-1, 41-2

Week 2
Unit: Infection Prevention, Radiation Protection and Safety Compliance

Thursday, September 8 (Lecture)
Textbook reading assignment in preparation for lecture class:
- Chapter 38 Foundations of Radiography, Radiographic Equipment, and Radiation Safety
- Chapter 40 Legal Issues, Quality Assurance, and Infection Prevention
- Chapter 39 Digital Imaging
- Chapter 41 Intra-oral Imaging

Thursday, September 8 (Lab)
Textbook Procedure Competencies: 40-1, 40-2, 40-3, 41-1, 41-2, 41-5, 41-7 (digital sequencing/ traditional mounting), Demonstrate safelight test with a penny, demonstrate the use of a step-wedge to determine density.

Week 3
Unit: Infection Prevention, Radiation Protection and Safety Compliance

Thursday, September 15 (Lecture)
Quiz #1 (Chapters 38 and 40)
Textbook reading assignment in preparation for lecture class:
- Chapter 38 Foundations of Radiography, Radiographic Equipment, and Radiation Safety
- Chapter 39 Digital Imaging (pages 618-621)
- Chapter 40 Legal Issues, Quality Assurance, and Infection Prevention
- Chapter 41 Intra-oral Imaging

Thursday, September 15 (Lab)
Practical Exam #1 - Infection Prevention, Safety, and Equipment Identification
Textbook Procedure Competencies: 40-1, 40-2, 41-1, 41-2, 41-5, 41-7 (digital sequencing/ traditional mounting)
Week 4

Unit: Radiography Skill Development

Thursday, September 22 (Lecture)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, September 22 (Lab)
Practical Exam #2 – Patient Preparation and XCP Assembly
Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-7 (digital sequencing/ traditional mounting)

Week 5

Unit: Radiography Skill Development

Thursday, September 29 (Lecture)
Quiz #2 (Chapters 39 and 40)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, September 29 (Lab)
Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-7 (digital sequencing/ traditional mounting)

Week 6

Unit: Radiography Skill Development

Thursday, October 6 (Lecture)
Exam #1 (CH. 38, 39, 40, 41)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, October 6 (Lab)
Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-7 (digital sequencing/ traditional mounting)

Week 7

Unit: Radiography Skill Development

Thursday, October 13 (Lecture)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging (pages 662-673)

Thursday, October 13 (Lab)
Skills Exam #1- Bitewing Exposures
Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-7 (digital sequencing/ traditional mounting) and Identify landmarks (677-678)
Week 8

Unit: Radiography Skill Development

Thursday, October 20 (Lecture)

Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, October 20 (Lab)

Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-5, 41-7 (digital sequencing/ traditional mounting) and Identify landmarks (677-678)

Week 9

Unit: Radiography Skill Development

Thursday, October 27 (Lecture)

Quiz #3 (Chapter 41)

Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, October 27 (Lab)

Skills Exam #2 - Periapical Exposures

Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-5, 41-7 (digital and traditional mounting) and Identify landmarks (677-678)

Week 10

Unit: Interpretation

Thursday, November 3 (Lecture)

Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging (pages 662-673)

Thursday, November 3 (Lab)

Skills Exam #3 – Periapical Exposures

Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-5, 41-7 (digital and traditional mounting) and Identify landmarks (677-678)

Week 11

Unit: Interpretation

Thursday, November 10 (Lecture)

Exam #2 (Chapters 39 Digital and 41)

Thursday, November 10 (Lab)

Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-5, 41-7 (digital and traditional mounting), Identify landmarks (677-678), and Identify periodontal disease, caries, amalgam, composite, gold, PFM, full porcelain, liners, bases on images, attempt charting utilizing images.
Week 12

Unit: Interpretation

Thursday, November 17 (Lecture)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging (674-677)

Thursday, November 17 (Lab)
Skills Exam #4 – Identification (677-678)
Textbook Procedure Competencies: 41-1, 41-2, 41-3, 41-5, 41-5, 41-7 (digital and traditional mounting) and Identify landmarks (677-678), and Identify periodontal disease, caries, amalgam, composite, gold, PFM, full porcelain, liners, bases on images, attempt charting utilizing images.

Week 13

Unit: Interpretation

Thursday, November 26 (Lecture/ Lab)
THANKSGIVING HOLIDAY

Thursday, December 1 (Lecture)
Quiz #4 (CH. 41)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Thursday, December 1 (Lab)
Identify landmarks (677-678) and Identify periodontal disease, caries, amalgam, composite, gold, PFM, full porcelain, liners, bases on images, attempt charting utilizing images.

Week 15

Unit: Interpretation

Thursday, December 8 (Lecture)
Textbook reading assignment in preparation for lecture class:
  Chapter 41 Intraoral Imaging

Week 15 - Thursday, December 8 (Lab)
FINAL PRACTICAL EXAM - CUMULATIVE

Week 16

Thursday, December 15 (Lecture)
FINAL WRITTEN EXAM - RADIOGRAPHY

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.