Course Description

Radiation physics, biology, hygiene, and safety theories with an emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques. (3 sem hrs; 2 lec; 4 lab)

Learning Outcomes

Explain the theories of radiation physics, biology, hygiene, and safety; produce and interpret diagnostically acceptable radiographs utilizing various radiographic techniques; apply the principles of quality assurance in dental radiography; and describe the fundamentals of oral radiographic techniques and interpretation.

Course Meeting Days and Times

Lecture: Mondays and Wednesdays 8:45 - 9:50 a.m. WCAH 170

Laboratory: Each student will have one laboratory session each week of the semester. The laboratory assignments will be made according to each student’s clinical assignment. The laboratory sessions will be one of the following times: Tuesdays 8:00-12:00 or Tuesdays 1:00-5:00 or Thursdays 8:00-12:00 or Thursdays 1:00-5:00

Course Director

Name: Jnita Collins, B.S., R.D.H.
Office Location: Allied Health Bldg. 122
Office Phone: (806) 356-3644
Home Phone: (806)355-0902
Campus E-Mail Address: collins-jj@actx.edu
Web Address http://www.actx.edu/~collins_jj/
Office Hours: Mondays 9:00-11:00 & 1:00-4:30 Friday afternoon - by appointment only

Course Adjunct Faculty

Name: Lynette Hayhurst, A.A.S., R.D.H
Required Course Textbooks

3. Amarillo College Dental Hygiene Program Student Manual

Recommended Course Textbook


Instructor Objectives for the Course

DHYG 1304 is included in the Dental Hygiene curriculum to provide the dental hygiene student with knowledge of the production and use of radiographs in dentistry; the interaction of x-rays with human tissues; radiographic quality and interpretation; and legal and ethical issues related to dental radiography. This knowledge and the acquired entry-level skills will be applied in a clinical setting by correctly and safely producing diagnostic radiographs. Unit Objectives to coordinate with each lecture may be accessed on the instructor’s website at http://www.actx.edu/~collins_jj/. Unit objectives will coordinate with the materials presented in lecture, handouts, and reading assignments. Knowledge in the objectives will be required of the student in order to be successful in the completion of the written and practical examinations and in laboratory exercises at a minimum of 75% accuracy or greater. Given the course textbooks, personal notes, handouts, and other course material, the student should:

1. Learn the terminology, facts, theories, methods, and principles, associated with dental radiology as outlined in the daily objectives and in the course schedule.
2. Apply the knowledge learned to a laboratory simulation or clinical patient.
3. Evaluate the learning experiences as measured by the course objectives.

The student will know that these goals have been successfully completed if after evaluated by course instructor, a minimal grade of 75 or greater is earned.

Course SCANS Competencies

1. Reading
   The student will complete all reading assignments, and be able to understand and interpret the information necessary to the study of dental radiology. The student will also be able to understand and interpret the procedural information related to completing each step of the dental radiographic survey and the interpretation of the films as they relate to patient care.

2. Writing
   The student will submit answers to questions given by the instructor on quizzes, major examinations and assignments. The student will also be able to document information in a patient’s chart using correct spelling and professional terminology.

3. Speaking
The student will participate verbally in class discussions, and will answer oral questions to the best of their ability. The student will also learn to direct conversation in a professional manner when interacting with patients and other dental professionals.

4. **Listening**
   The student will listen attentively to lecture and audio/visual presentations in order to take good notes and to assimilate enough information to ask questions when necessary. The student will listen attentively to any guest speakers in the classroom and in professional dental meetings in order to ask pertinent questions at the conclusion of the speaker’s presentation. The student will also watch and listen attentively to instructor demonstrations and audio/visual presentations in order to be able to perform the laboratory assignments correctly, and to be able to ask appropriate questions of the instructor when there is a difficulty with a lab exercise.

5. **Critical thinking**
   The student will utilize the information presented in this class, as well as in other courses in this program, and assimilate this information in order to correctly answer the various types of questions presented in quizzes and examinations. The questions contained in the quizzes and examinations require the student to be able to reason, problem solve, make logical decisions based on information supplied, and/or to describe further steps or actions necessary to derive reasonable conclusions. The student will also learn to take the information from the patient’s histories and determine the need for radiographic surveys and their sequence.

6. **Personal Qualities**
   The student is expected to complete all assignments, quizzes, and examinations independently unless assigned to work in a group. The student is expected to work independently or in group situations with professional attitude and in cooperation with the instructor and other classmates. The student is encouraged to have the honesty and integrity to perform assignments as expected. The student will participate in discussions regarding honesty, integrity, and responsibility, as they relate to the ethical, legal, and personal information when treating patients with confidentiality.

7. **Workplace Competencies:** The student will, during class and discussions, be able to identify, organize, and plan the utilization of time, materials, and facilities as they relate to dental radiology. The student will be able to discuss the correct procedures, supplies and equipment necessary to perform radiographic procedures. The student will be able to properly perform radiographic procedures while maintaining an environment that is as aseptically prepared as possible. The student will learn to care for and maintain the equipment as necessary for the completion of dental radiographic procedures.

**Students with Disabilities**

"Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact disAbility Services (Student Service Center Room 119, Phone 371 -5436) as soon as possible."

**Learning Activities**
Course activities will be presented and described using a wide variety of methods. These methods may include, but are not limited to any of the following: lecture, guest lecture, films, videos, slide presentations, overhead transparencies, discussion and small group projects, student research resulting in written or oral reports, discussion of examination, panel discussions, written assignments, laboratory projects, assignments as well as demonstrations. A variety of exercises including mounting, processing, identification of landmarks, and correction of processing and exposure errors are used. Emphasis is placed on radiation safety, quality, and correct technique with patient and operator protection.

**Attendance Policy**

*Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class.* Due to the tremendous amount of information contained in this course, the student who plans to succeed should also plan to attend all course sessions regularly and promptly. Without question, the instructor expects each student to be present at each session. Unfortunately, no one has ever developed a short cut which will replace hours of actual experience needed to master a new skill; therefore, you must be present to acquire the specific knowledge in this subject. The student may have no more than 1 absence in this course *(meaning lecture or laboratory sessions)* without affecting the final grade. Beginning with the 2nd absence, 1 point will be deducted from your final radiology grade for each absence thereafter. Attendance will be taken at the beginning of each lecture and lab session. The student is expected to be present in class at the time class/lab is scheduled to begin. The student will receive 2 bonus points to the final grade if the student has perfect attendance for the semester in all lecture classes and laboratory sessions.

It is the expectation of the instructor, for students to come to class prepared to participate in discussion and activities. In order to gain an understanding of how theory translates into the clinical experience, students will need a baseline knowledge, obtained through reading assignments in this course as well as familiarity with content of courses taken up to this point.

**Make-up Policy**

A student will not be allowed to make-up quizzes, as a zero will be given for each missed quiz. One quiz grade may be dropped at the end of the semester. If a student is absent on the day when a major examination is given, the student may make-up the missed work as follows:

1. It is the responsibility of the student to make arrangements with the instructor with in 24 hours of returning from the absence to reschedule the examination.
2. The missed work must be made up within TWO Amarillo College school days where the day ends at 4:00 p.m.
3. The make up work may earn a maximum of 80% of the original point value.

**Course Ethics**

Each student will be required to take written and practical examinations as a part of this course. As such, students should be aware of the instructor's policies relative to copying the work of others and dishonesty of any kind during an examination or after an examination is returned to a student for class discussion. Acts such as looking onto other student’s papers, asking others questions during an examination or moving into positions that enables the sight of personal notes or fellow classmate’s work is unethical conduct and such behavior will not be tolerated. Dental hygiene students are training to be a professional healthcare provider that will work in legally
binding situations. The dental hygiene profession requires that all members be honest and have the moral characteristics that provide for working at all times in a legal and ethical manner. The dental hygienist is responsible for patient treatment procedures and all records that document patient care. The handling and maintenance of the patient’s chart and records requires the strictest of confidentiality and honesty.

Amarillo College also has standards that must be upheld. At Amarillo College, there are grave academic penalties for unethical conduct. The policy and penalty for such conduct is provided in the General Catalog as follows:

A high standard of conduct is expected of all students. It is assumed that obedience to the law, respect for properly constituted authority, personal honor, integrity and common sense will guide the actions of each member of the college community both in and out of the classroom. The student code of conduct is published in the Student Rights and Responsibilities publication. Any student who fails to perform according to expected standards may be disciplined.

It can be concluded from this statement that cheating and other forms of unethical course conduct are absolutely forbidden by Amarillo College policy. To be more specific, in this course, any unethical conduct is a cause for a final grade of "F" regardless of other grades earned to date in the course.

In summary, a student should not risk his or her final grade in this course and any future enrollment privileges at Amarillo College as the result of the unethical conduct. This policy will be strictly enforced.

All students are considered mature enough to seek faculty assistance and to monitor their own progress in meeting course requirements. The following professionalism standards apply to this course:

1. Student is prompt to class.
2. Student is prepared for class sessions.
3. Student assumes responsibility for his/her own learning.
4. Student is concerned with excellence in learning rather than just meeting minimal criteria.
5. Student applies lecture material in the clinical setting.
6. Student maintains his/her composure, dealing with conflict in a constructive way.
7. Student exhibits an attitude of respect for classmates, faculty, and staff.
8. Students will not be disruptive or talk to each other during lectures, slide presentations, guest lectures, etc. Should this occur, the student will be asked to leave the classroom immediately.

**Required Examinations**

The following criteria will be used to determine the student’s grade:

The didactic portion of the course will consist of four major examinations, quizzes in lecture and lab, and a comprehensive final examination including a section on radiographic interpretation. Changes in the major examination schedule will be announced approximately one week in advance. Quizzes may, or may not, be announced in advance. Refer to the course calendar for the schedule of materials to be covered in each class or lab period and the tentative examination
dates. Also, please note the provisions of the Make-up Policy in this syllabus for missed examinations. Major examinations and quizzes will be objective in nature (true/false and multiple choice) with a few questions being subjective in nature (short answer, essay, and fill in the blank). The final examination will be entirely objective in nature and will test information for the entire course.

If a student has a question over any examination content, an inquiry or a request for review may be submitted to the course director in writing up to one week after the graded examination is returned to the student. The inquiry/request must include the following information:

1. Student Name
2. Exam number
3. Exact examination question to be reviewed
4. An explanation as to why you are submitting an inquiry
5. Book name and page number where your answer is based

A student may review prior examinations taken during the semester. When reviewing the examinations, the student must remain in the Dental Hygiene lab or clinic area and will not be able to take the examinations out of the building. No review of examinations will be permitted during the week of final examinations.

Course Grading Criteria

The final course grade will be computed as follows:
- Major Exams: 40%
- Quizzes and Written Lab Exams: 10%
- Comprehensive Final: 25%
- Lab Assignments: 25%

The following grade scale applies throughout this course:
- A = 93 - 100%
- B = 83 - 92%
- C = 75 - 82%
- F = Below 75%

Note: A grade of "D" is not possible in this course.

Criteria for Radiology Lab

The student will be required to practice exposing, developing, and mounting films during each lab period. Attire for radiology lab must follow the guidelines of lab or clinical attire discussed in the Amarillo College Dental Hygiene Student Handbook. The following assignments must be completed in order to complete the course. The criteria for quality assessment and the grading of lab radiographs will be based on the Criteria for Clinical Radiographs which includes the policies that will also be utilized in Clinic II, Clinic III, and Clinic IV. The Criteria for Clinical Radiographs policy is included the Amarillo College Dental Hygiene Student Handbook. Please note that the retake policy in the Criteria for Clinical Radiographs applies to clinic patient radiographs and will not be applied to Dexter Radiographic sets. Students are allowed to utilize the Dexter Practice sessions to learn to take and assess errors and may take unlimited retakes until the student is confident in their technique. No retakes will be allowed prior to the grading of the Lab Practical Examination radiographic sets. The student is expected to utilize the Criteria for Clinical Radiographs as a guide to the assessment of the films taken in laboratory and clinical sessions. The following lab assignments must be completed by the student in radiology lab sessions:
3 sets of horizontal and 3 sets of vertical bite-wing radiographic surveys on Dexter. (All six grades of the bite-wing surveys will be averaged together to count as one FMX grade.)

2 full mouth sets of radiographs using the **Bisecting Angle Technique**.

2 full mouth sets of radiographs using the **Paralleling Technique**.

Written Lab Examinations may be given through the semester to test the student’s knowledge in critiquing radiographs for errors, anatomical landmarks, and interpretation of the health status and pathological findings of the tissues as seen in radiographs.

Lab Practical Examinations will consist of taking two full mouth sets of radiographs on clinical patients and one panoramic film on a clinic patient. The Lab Practical Examinations will be taken on a scheduled lab time or during a clinic patient care session and **no retakes will be allowed on the lab practical radiograph sets.** A student who attempts to take retakes on a live patient prior to turning the FMX in for a grade will be practicing unethical conduct and such behavior will not be tolerated. Again, a student should not risk his or her final grade in this course by such behavior.

**Guidelines for Lab Practical Examination:**

- It is the student’s responsibility to:
  1. Determine that the patient needs to have the FMX or Panoramic radiographs taken.
  2. If the patient is not a patient of record in the AC Dental Hygiene Clinic or in the Wyatt Health Plan Dental Clinic, a limited chart must be started for that patient and assistance from the radiology instructors may be obtained in assessing what type of forms and chart are to be used in this case. Forms that must be included in the chart are the health history pages 1 and 2, dental screening form, progress notes page, and the radiograph log sheet.
  3. Complete the proper forms in the patient’s chart before and after the FMX is complete.
  4. Before the FMX is taken, the medical history or the medical history update must be completed entirely.
  5. The patient’s vital signs must be recorded in the patient’s chart.
  6. A clinical dentist or clinical/radiology instructor must sign the radiograph log sheet prior to the student being issued the films.
  7. *After the FMX has been taken, the progress notes must be completed and the faculty member that signed the radiograph log sheet must sign the progress notes.*
  8. Infection control procedures must be followed closely to prevent cross-contamination in the x-ray procedure room, the darkroom, and in the dispensary.
  9. No live patient may be started after 3:30 p.m. Please work diligently to complete your procedures in a timely manner as the time frames are allotted to allow all students to have the opportunity for access to the equipment.
  10. The faculty member prescribing the radiographs must initial the FMX Critique Grade Form stating that the radiograph log sheet and the progress notes forms have been signed in the patient’s chart. The patient chart must be completed and signed by the instructor prior turning the
radiographs in for a grade. Without a faculty signature on the critique sheet form, a grade will not be given for that set of radiographs.

**Students Rights and Responsibilities**

Amarillo College students should be familiar with the contents of *Amarillo College Student’s Rights and Responsibilities* pamphlet. Copies of the pamphlet are available free to students. These pamphlets are located in the Dean of Student Services Office, the Business Office, and the West Campus Division Office. It is the student’s responsibility to become familiar with the *Student’s Rights and Responsibilities* document.

The Amarillo College Student's Rights and Responsibilities Publication may also be viewed at [http://www.actx.edu/student/index.htm](http://www.actx.edu/student/index.htm)

**Electronic and Recording Devices**

All electronic devices such as cell phones or beeper/pagers are prohibited in this course. No tape recordings of the lecture during classroom or lab instruction will be allowed. Reading the assigned chapters prior to class and taking notes during lecture will assure proper coverage of chapters for preparation for daily and major examinations.

**Academic Grievances**

A student who has a grievance concerning a course in which he or she is enrolled should make an appeal in the following order to the:

1. Instructor
2. Department chair
3. Division chair
4. Vice President / Dean of Instruction
5. College President

**Dates of Importance**

Please refer to the attached schedule for the sequence of the course content. The schedule is subject to change. Any changes will be announced in class.

- **January 17**  
  1\textsuperscript{st} day of Class
- **March 13 - 17**  
  Spring Break
- **April 14**  
  Good Friday - Holiday
- **May 8-11**  
  Final Examinations
Verification of Course Policies

I, ______________________, verify that I have reviewed the Dental Radiology, DHYG 1304 course syllabus at the web site:  http://www.actx.edu/~dental_hyg/syllabi.htm

I have read and understand the course and department policies contained in the syllabus as they have been fully explained to me.

I agree to abide by the policies and course requirements documented in the syllabus.

______________________________________ on ___________________________________
(Student Signature)       (Date)

Received and filed in student file.

______________________________________ on ___________________________________
(Instructor Signature)          Date)
<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Subject of Lecture Content</th>
<th>Book Chapter &amp; Pgs.</th>
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</thead>
<tbody>
<tr>
<td>Wed</td>
<td>1/18</td>
<td>Distribute Syllabus and Orientation; Read Ch. 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>Mon</td>
<td>1/23</td>
<td>History of Radiation</td>
<td>Ch 1 pg. 2</td>
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<td></td>
<td>Radiation Physics</td>
<td>Ch 2 pg. 9</td>
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<tr>
<td>Wed</td>
<td>1/25</td>
<td>Physics Continued</td>
<td></td>
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<tr>
<td>Mon</td>
<td>1/30</td>
<td>Physics Continued</td>
<td>Ch 2 pg. 9</td>
</tr>
<tr>
<td>Wed</td>
<td>2/1</td>
<td>Radiation Characteristics</td>
<td>Ch 3 pg. 28</td>
</tr>
<tr>
<td>Mon</td>
<td>2/6</td>
<td>Problem Solving and Inverse Square Law</td>
<td>Ch 3 pg. 28</td>
</tr>
<tr>
<td>Wed</td>
<td>2/8</td>
<td>Image Characteristics</td>
<td>Ch 8 pg 89</td>
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<tr>
<td>Mon</td>
<td>2/13</td>
<td>Exam I</td>
<td>Ch 1, 2, 3, 8</td>
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<tr>
<td>Wed</td>
<td>2/15</td>
<td>Film Characteristics</td>
<td>Ch 7 pg 74</td>
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<tr>
<td>Mon</td>
<td>2/20</td>
<td>Film Processing - technique, solutions, darkroom...</td>
<td>Ch 9 pg 101</td>
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<tr>
<td>Wed</td>
<td>2/22</td>
<td>Film Processing - errors and problem solving</td>
<td>Ch 9 pg 101</td>
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<tr>
<td>Mon</td>
<td>2/27</td>
<td>Quality Assurance</td>
<td>Ch 10 pg 128</td>
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<tr>
<td>Wed</td>
<td>3/1</td>
<td>Dental Radiographer and Radiographs; The Importance of Radiographs Patient Relations</td>
<td>Ch 11 pg 140</td>
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<td>Ch 12 pg 145</td>
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<tr>
<td>Mon</td>
<td>3/6</td>
<td>Exam II</td>
<td>Ch 7, 9, 10, 11, 12</td>
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<td>Wed</td>
<td>3/8</td>
<td>Radiation Biology</td>
<td>Ch 4 pg 38</td>
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| Mon   | 3/13    | Spring Break                                                                              | ☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺☺']==
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<th>Day</th>
<th>Date</th>
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<tbody>
<tr>
<td>Mon</td>
<td>4/24</td>
<td>Interpretation of Dental Caries</td>
<td>Ch 32 pg 457</td>
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<tr>
<td>Wed</td>
<td>4/26</td>
<td>Interpretation of Periodontal Disease</td>
<td>Ch 33 pg 468</td>
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<tr>
<td>Mon</td>
<td>5/1</td>
<td>Interpretation of Trauma, and Pulpal and Periapical Lesions</td>
<td>Ch 34 pg 481</td>
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<tr>
<td>Wed</td>
<td>5/3</td>
<td>Exam IV</td>
<td>Ch 26-32</td>
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<tr>
<td>Tues</td>
<td>5/9</td>
<td>Final Examination</td>
<td>Comprehensive</td>
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<tr>
<td>Week #</td>
<td>Dates</td>
<td>Laboratory Exercise Content</td>
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<tr>
<td>1</td>
<td>1/17 &amp; 1/19</td>
<td>Clinical Orientation</td>
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<tr>
<td>2</td>
<td>1/24 &amp; 1/26</td>
<td>Clinical Orientation</td>
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<tr>
<td>3</td>
<td>1/31 &amp; 2/2</td>
<td>Lab Orientation &amp; Orientation of Panoramic technique and trouble shooting. Goal: Practice patient placement and practice exposure (no radiation) two times. Begin taking panos on lab partners as time allows.</td>
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<tr>
<td>4</td>
<td>2/7 &amp; 2/9</td>
<td>Orientation on bitewing radiographic technique &amp; begin exposing horizontal BWX on Dexters. Goal: Complete sets 1 &amp; 2 of horizontal BWX</td>
<td></td>
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<tr>
<td>5</td>
<td>2/14 &amp; 2/16</td>
<td>Continue horizontal BWX and Interpretation of BWX errors; Begin Vertical BWX; Assessment of patient needs - when does the patient need BWX? How often? And which type? Goal: All horizontal BWX are due. Begin sets 1 &amp; 2 of vertical BWX</td>
<td></td>
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<tr>
<td>6</td>
<td>2/21 &amp; 2/23</td>
<td>Continue vertical BWX; Quiz on errors in Panoramic and BWX techniques and Patient Assessment Goal: All BWX completed and turned in to be graded.</td>
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<tr>
<td>7</td>
<td>2/28 &amp; 3/2</td>
<td>Orientation on bisection of the angle theory and the Snap-A-Ray technique Goal: Begin posterior periapicals and BWX for FMX 1</td>
<td></td>
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<tr>
<td>9</td>
<td>3/14 &amp; 3/16</td>
<td>Spring Break. Enjoy your vacation!</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4/4 &amp; 4/6</td>
<td>Orientation on Rinn paralleling technique. Begin anatomical landmarks. Goal: Begin post periapicals and BWX with rinn on FMX 1</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>4/18 &amp; 4/20</td>
<td>Continue Rinn. Anatomical landmark quiz. Goal: Complete Rinn FMX 2 and turn in.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>5/2 &amp; 5/4</td>
<td>Lab Practical radiographs completed. Complete all projects. All live FMX sets are due this week. Last day to turn them in is Friday 5/6. Each live FMX will need to be mounted correctly and critiqued for errors and landmarks.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>5/8 – 5/11</td>
<td>Best Wishes on your Final Examinations</td>
<td></td>
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</table>
**Student Grade Report**

### 4 Major Examinations: 40%

<table>
<thead>
<tr>
<th>Exam</th>
<th>Grade</th>
<th>Average</th>
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<tbody>
<tr>
<td>Exam I</td>
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<tr>
<td>Exam II</td>
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<tr>
<td>Exam III</td>
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<td>40%:</td>
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<tr>
<td>Exam IV</td>
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### Laboratory Assignments: 25%

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<tr>
<td>Horizontal BWX #3</td>
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</tr>
<tr>
<td>Vertical BWX #1</td>
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</tr>
<tr>
<td>Vertical BWX #2</td>
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<tr>
<td>Vertical BWX #3</td>
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<tr>
<td><strong>BWX Average:</strong></td>
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### Quizzes: 10%

<table>
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<td>Chapter</td>
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### Comprehensive Final Examination: 25%

<table>
<thead>
<tr>
<th>Final Examination</th>
<th>Grade</th>
<th>25%:</th>
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</table>

### Total Number of Absences:

-1 point deducted from Final Grade for every absence after the 1st absence

### Perfect Attendance Bonus Points:

- **Question:** Yes No

**Bonus Points Added:** +_______

**Final Course Grade:** ________

**Letter Grade:** ________