

EL CAMINO COLLEGE RADIOLOGIC TECHNOLOGY PROGRAM- FALL 2011  
 RAD TECH 111 = FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY I  
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## LECTURE: TUESDAY 9am – 12:10pm MCS 10

| W  | DATE    | CLASS SCHEDULE   | READING* ASSIGNMENTS   |
|----|---------|--|--|
| 1  | AUG 30  | Intro RT 111 syllabus & schedule<br>Concepts of Radiologic Science & Radiation Protection. Radiographic & Fluoroscopic Equipment | <b>Quiz 1</b><br>Bushong: Ch 1, HW: Challenge Questions Ch 1 Adler & Carlton Ch. 8 & 9 HW: Review Questions, Ch. 8 & 9 |
| 2  | SEPT 6  | Radiation Protection.<br>Fundamentals of Radiologic Science, Technique Math & The Structure of Matter.                           | Bushong: Ch 2, 3, 15 & 40<br><b>Quiz 2</b>   |
| 3  | SEPT 13 | EM Energy, Electricity & The X-Ray Tube  | Bushong: Ch 4, 5 & 7   |
| 4  | SEPT 20 | Imaging System, X-Ray Production & Emission, Review for Exam 1   | <b>Quiz 3</b> Bushong: Ch 6, 8 & 9   |
| 5  | SEPT 27 | <b>EXAM 1 *Bring a Scantron 882E*</b><br>Radiographic Exposure & Technique – THE PRIME FACTORS                                   | <b>HW DUE : All section # 1 CQ's &amp; worksheets</b><br>Bushong: Ch 15  |
| 6  | OCT 4   | <i>Review Exam 1</i><br>X-ray Interaction with matter & Human biology  | Bushong: Ch 10 & 32; Statkiewicz: Ch 2   |
| 7  | OCT 11  | Fundamental Principles of Radiobiology, Molecular, Cellular Radiobiology, Early & Late effects of Radiation                      | <b>Quiz 4</b><br>Bushong: Ch 33, 34 (limited 35 & 36)<br>Statkiewicz: Ch 1, 4, 5 & 6                                   |
| 8  | OCT 18  | Health Physics, Designing for Radiation Protection & Patient/Occupational Dose Management<br><i>Review for Exam 2</i>            | <b>Quiz 5</b><br>Bushong: Ch 37, 38, 39 & 40<br>Statkiewicz: Ch 7, 8, 9, & 10  |
| 9  | OCT 25  | <b>EXAM 2 *Bring a Scantron 882E*</b><br>Control of Scatter Radiation  | <b>HW DUE: All section # 2 worksheets</b><br>Bushong: Ch 11 & 14   |
| 10 | NOV 1   | <i>Review Exam 2</i><br>Complete Control of Scatter Radiation & Radiographic Film  | Bushong: Ch 11 & 14  |
| 11 | NOV 8   | Intensifying Screens, Film Processing & Silver Recovery<br>Review math questions & for Exam                                      | Bushong: Ch 12 & 13<br><b>Quiz 6</b>   |
| 12 | NOV 15  | <b>EXAM 3 *Bring a Scantron 882E*</b><br>Computer Science & Begin Computed Radiography   | <b>HW DUE: All section # 3 worksheets</b><br>Bushong: Ch 24 & 25 Carter: Ch 2  |

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| 13 | NOV 22 | Review Exam 3 Computed Radiography & Digital Radiography                       | Bushong: Ch 25 & 26<br>Carter: Ch 1, 4 & 5                    |
| 14 | NOV 29 | The Digital Image, Viewing the Digital Image & Digital Display Quality Control | <b>Quiz 7</b><br>Bushong: Ch 28, 29 & 30, Carter: Ch 6, 7 & 8 |
| 15 | DEC 6  | Image Quality & Artifacts  | Bushong: Ch 16, 17 & 31                                       |
| 16 | DEC 13 | <b>COMPREHENSIVE FINAL EXAM</b>  | <b>HW DUE * Bring a Large Scantron 884ES *</b>                |

\*\*Schedule is subject to change with prior notice from instructor\*\*

