

Xavier University

## Exhibit

---

Radiologic Technology Syllabi Fall 2020

Radiologic Technology Syllabi 2020

---

2020

### RADT 200 Digital Imaging

Donna Endicott  
endicott@xavier.edu

Follow this and additional works at: [https://www.exhibit.xavier.edu/radiologic\\_technology\\_syllabi\\_fall\\_2020](https://www.exhibit.xavier.edu/radiologic_technology_syllabi_fall_2020)

---

#### Recommended Citation

Endicott, Donna, "RADT 200 Digital Imaging" (2020). *Radiologic Technology Syllabi Fall 2020*. 4.  
[https://www.exhibit.xavier.edu/radiologic\\_technology\\_syllabi\\_fall\\_2020/4](https://www.exhibit.xavier.edu/radiologic_technology_syllabi_fall_2020/4)

This Restricted-Access Syllabus is brought to you for free and open access by the Radiologic Technology Syllabi 2020 at Exhibit. It has been accepted for inclusion in Radiologic Technology Syllabi Fall 2020 by an authorized administrator of Exhibit. For more information, please contact [exhibit@xavier.edu](mailto:exhibit@xavier.edu).



College of Professional Sciences  
Radiologic Technology Program

Fall 2020

***RADT 200: Digital Imaging***  
***2:30 to 3:50 pm***

**Instructor:** Donna J. Endicott, M.Ed., R.T. (R), 188e Cohen Hall  
(513) 745-3358 office or 456-6117 home or [Endicott@xavier.edu](mailto:Endicott@xavier.edu)

**Textbook:** “Principles of Radiographic Exposure” by Carlton: Chapters 23-24  
ASRT Learning Modules for Digital Imaging – posted online

**Office Hours:** Tuesday from 12:30 to 1:30 or see me right after class to schedule a time.

**Course Description:** To advance the student’s knowledge of computer radiography and digital radiography. Students will have an understanding of the principles and components to form digital images within the radiography department.

**Objectives:** At the completion of this course, the student will be able to:

1. Discuss the historical development of the computers
2. Define the computer terminology associated with digital imaging systems.
3. Define the fundamentals, components and operations of CR imaging equipment.
4. Define the fundamentals, components and operations of DR imaging equipment.
5. Describe the histogram and how it relates to automatic rescaling.
6. Describe ALARA concepts with digital systems.
7. Define the components of the DICOM and PACS.
8. Describe the HIPAA concerns with electronic information.

**Requirements:** Class Participation (50 points)  
Test (3) (300 points)

**Grading:** Students may earn of total of 350 points. ***Didactic Grading Scale:***

|                      |                      |                      |                     |                      |
|----------------------|----------------------|----------------------|---------------------|----------------------|
| <b>A</b><br>95 – 100 | <b>A-</b><br>93 - 94 | <b>B+</b><br>91 - 92 | <b>B</b><br>88 – 90 | <b>B-</b><br>86 - 87 |
| <b>C+</b><br>84 - 85 | <b>C</b><br>80 - 83  | <b>C-</b><br>78 - 79 | <b>D</b><br>70 - 77 | <b>F</b><br>0 - 69   |

## **Classroom Policies:**

**Classroom participation:** All students will begin the semester with 50 points for participation. It is up to you to keep your points!

During this time of COVID 19 guidelines, the program is following the university's guidelines. All classrooms on campus are following the social distancing guideline of maintaining desks 6 feet apart. All students are expected to wear a facial mask while in the building including the classrooms. If you are NOT feeling well, stay at home and you can contact the instructor to cover the material missed if you need help or you can Zoom into the class during the regular class time.

Attendance and participation in class is expected unless you are sick. *Good participation* in class includes such activities as being on time for class, asking questions, sharing with classmates what you have observed at the clinical sites, articles from newspapers and answering questions. Class time is your time to learn so make sure you make the most of the learning experience. This includes the "Zoom-In" students. When students are assigned to "Zoom-In", you are expected to log into class during regular class time. You will need to show your face when you are working online. Examples of *poor participation* includes falling asleep, using your cell phone during class, working on your homework in class, talking to others while lecture is going on or while other students are talking/asking questions to the classmates/instructor, and being rude to fellow classmates. Not participating in class while logging into class while on Zoom.

If you have questions about your participation abilities – ask me! If I notice something you are doing to take away from class discussions, I will talk to you. Depending on your continued actions, classroom participation points will be subtracted which will be – 5 points for each occurrence.

**Class Attendance is very important! If you do not attend class, you are not participating in class time.** *For every absence (5 points), tardiness (2 points) or leaving early (2 points) points will be subtracted from your participation grade.* If a student misses the third class, I will drop your final course grade one whole letter grade.

**Plagiarism and cheating** are not acceptable at any time or on any assignment. The following are some examples of plagiarism and/or cheating: copying sentences of phrases from any print or internet source, copying from others tests or assignments, using crib sheets, using the work of other students and passing it on as your own. In accordance with Xavier's Academic Honesty policy, any infraction at all will cause at least a grade of O on that assignment and will likely result in an F for the course, at my discretion and in consultation with the dean. If you have any questions about what is an inappropriate behavior – ask me before you do it! No electronic devices are allowed out during a test!

**Missed Tests.** If you know you will miss a test for any reason, please let me know as soon as possible and we will arrange to reschedule the test. Most likely, you will need to take the test before the next scheduled class time.

**Cell phones** will be turned off during class time. If they ring, I reserve the right to answer them. In case of emergencies, see me before class starts. (See class participation)

### ***Student Services***

The Office of Academic Support offers tutoring, Supplemental Instruction (SI), and study groups. For information about these services, contact Stephanie Daniels at 745-3214 or [daniels3@xavier.edu](mailto:daniels3@xavier.edu). The OAS is located on the fifth floor of the Conaton Learning Commons, Suite 514.

### ***Students with Disabilities***

Any student who feels he/she may need an accommodation based on the impact of a documented disability should notify the course instructor and contact Cassandra Jones in the Office of Disability Services at 745-3280 or e-mail [jonesc20@xavier.edu](mailto:jonesc20@xavier.edu) to coordinate reasonable accommodations.

### ***Mental Health Resources***

#### ***Undergraduate***

Life at college can get very complicated. Students sometimes feel overwhelmed, lost, experience anxiety or depression, struggle with relationship difficulties or diminished self-esteem. However, many of these issues can be effectively addressed with a little help. Wellness and Health Center for Counseling Services (located in the HUB Building – 1<sup>st</sup> floor) and the Psychological Services Center (located at the Sycamore House) help students cope with difficult emotions and life stressors. The Counseling Services and the Psychological Services Center are staffed by therapists, counselors, and other staff who are attuned to the needs of college students. The services are FREE and completely confidential. Find out more at <http://www.xavier.edu/health-wellness/counseling/index.cfm> and <http://www.xavier.edu/psychologicalservices/welcome.cfm> or by calling (513) 745-3022 for Wellness Center or (513) 745-3531 for Psychological Services Center.

**Program Requirement: You must maintain a "C-" or better in this course in order to continue to the next semester.**

### **FALL SEMESTER 2019**

|       |           |  |
|-------|-----------|--|
| Oct.  | 08        | Introduction to class, Digital Imaging Terminology, Computed Radiography – PSP Plates<br>(ZOOM - Emma and Aaliyah)       |
|       | 15        | Computed Radiography Reader<br>(ZOOM – Chris and Emily)  |
|       | 16        | <b>Everyone – Canvas test is posted and Due and 10/22</b>  |
| Note: | 21 (Wed.) | Holiday – no clinical and no classes   |
|       | 22        | <b>TEST is DUE at 12:01 am! Canvas test</b><br>Direct Radiography (DR indirect and DR direct<br>(ZOOM – Sara and Sidney) |

|                 |               |  |
|-----------------|---------------|--|
|                 | 29            | DR continue<br>(ZOOM – Ana and Kayla)  |
|                 | <b>30</b>     | <b>Everyone – Canvas test is posted and Due and Nov. 5</b>   |
| Nov.            | 05            | <b>TEST is DUE at 12:01 am! Canvas test</b><br>We have an Image: Image Analysis<br>(ZOOM – Madison and Alex) |
|                 | 12            | continue<br>(ZOOM – Grace and Alexa)   |
|                 | 19            | continue<br>(Zoom – Ava and Emma)  |
|                 | 27-29         | Thanksgiving Break – no classes or clinical  |
| <b>Nov. 30-</b> | <b>Dec 04</b> | <b>Final Exam Week: TEST posted in Canvas</b>  |

*NOTE: This schedule is subject to change by the discretion of the instructor.*