

Bergen Community College  
Health Professions Division  
Radiation Therapy Technology Program

Course Syllabus  
RTT- 200 Survey of Disease

**Course Description**

**RTT-200 Survey of Disease** - This course orients students to disease and disorders that compromise the human body. Emphasis is on cellular, systemic and manifestations. There will be an emphasis on the management of pathologies as well.

3 lecture / 3 credits

Prerequisites: RTT 120

Co-requisites: RTT 210, RTT 220, RTT 221, RTT 230

Spring Semester

**Student Learning Objectives:**

As a result of meeting the requirements in this course, students will be able to:

1. Demonstrate basic knowledge and understanding of diseases of the:  
Immune System, Integumentary System, Musculoskeletal System, Cardiovascular System, Respiratory System, Digestive System, Endocrine System, Urinary System, Reproductive System, Hematopoietic System, Central Nervous System, Auditory System and Head and Neck and Breast.
2. Identify pathologic terminology and most frequent and significant diseases and disorders.
3. Correlate specific diagnostic tests and procedures to specific disease states.
4. Discuss etiology of specific disease states.
5. Describe clinical manifestation of specific disease states.
6. Explain histology, grading, staging, prognostic factors and patterns of spread for malignant neoplasms.
7. Identify oncoanatomy, including isocenter and nodal anatomy.

### **Means of Assessment:**

The Student Learning Objectives (SLO) in this course are intended to be aligned with the pathology accreditation requirements of The Joint Committee on Education in Radiologic Technology and the New Jersey Department of Environmental Protection. They are also correlated with the content specifications for the national registration examination in Radiation Therapy administered by The American Registry of Radiologic Technologists. Additional student learning objectives may be specified in particular units. The major assessment types (means of assessment) utilized in this course are objective tests, quizzes, homework assignments, a research paper and class participation.

### **Course Content:**

Content is designed to add depth to the students' understanding of the disease process with an emphasis on malignant neoplasia. Diagnostic images are used to demonstrate stage and grade in neoplastic disease

### **Course Website:**

**RTT-200-001 Survey of Disease** is a “web-enhanced” class. The class has its own website and each member of the class has an account for the website. The BCC online course management system is known as “Moodle”. This website will provide the student with review and assessment materials.

### **Course Texts and/or Other Study Materials:**

All text books are available through the Bergen Community College Bookstore.

Chao, Clifford K., Perez, Carlos A., Brady, Luther W., Radiation Oncology Management Decisions. Philadelphia: Wolters Kluwer/Lippincott Williams & Williams. 3<sup>rd</sup> ed. 2011. ISBN: 978-1-60547-911-8.

Levy, Leia. Mosby's Radiation Therapy Study Guide and Exam Review. St. Louis, MO: Mosby, Inc. 1<sup>st</sup> ed. 2011. ISBN 978-0-323-06934-2

#### *Reference Material:*

Haffty, Bruce G., Wilson, Lynn D., Radiation Oncology – Basic Principles and Clinical Protocols, Boston, Jones and Bartlett. 2009. ISBN 978-0-7637-3143-4.

Washington, Charles M., Leaver, Dennis. Principles and Practice of Radiation Therapy. St. Louis, MO: Mosby Elsevier Publishing, Inc., 4<sup>th</sup>.ed. 2015. ISBN: 978-0-323-28752-4

## **Course Requirements and Learning Assessment:**

A student's final grade for the course is based primarily on his or her performance on the required work for the course (Quizzes/homework assignments, research project, examinations and class participation).

### **Quizzes** (15% of final grade)

Students are expected to be prepared for a quiz following each lecture topic. All quizzes will be administered on Moodle.

### **Homework Assignments** (10% of final grade)

Assignments will be used to reinforce classroom presentations. Assignments will be administered on Moodle.

### **Research Paper** (10% of final grade)

A five to eight-page research paper will be used to evaluate the students writing competency. The paper will be double spaced with one-inch margins and font size no larger than 12. A traditional format is required with documentation of bibliography and footnotes. A minimum of three (3) scholarly references are required; current (within the past five years) professional journals are preferred. The scholarly references are to be submitted with the paper. Washington and Leaver and Levy may only be used as sources to confirm or negate the scholarly article research. The final research paper will be due no later than one (1) week before the last day of class. Submission of the paper during the last week of the course will result in a 10 point – one letter grade reduction on the paper. Papers submitted after the last day of the class will not be accepted. Students will be afforded a Research Methodology presentation by the Library in the Fall semester to provide the student with an optimal opportunity for compliance to timeline.

### **Examinations** (60% of final grade)

Three examinations will be administered electronically in class. Each test will be worth 20% of your final grade. The tests cover the major topics of the course: the disease process with a emphasis on neoplasia . The test schedule will follow the classroom presentation and the content of the test will be based on the required textbook readings, classroom presentations and handouts. All tests are required. In the event that a test is missed, the student will be given a comparable test. A make-up test is at the discretion of the instructor of the course.

### **Overall Class Participation** (5% of final grade)

In order to participate in particular lectures and discussions, all related reading and assignments must be completed prior to that class session. Please be advised that you must be present to participate, yet that alone does not constitute active participation.

The following behaviors will be utilized to assess class participation:

Positive Behaviors:

1. Attend class regularly and on time and not leave early.
2. Be well-prepared for class by doing assigned reading.
3. Participate appropriately with relevant comments, questions or answers to questions presented in class.
4. Show respect and value for the content of the course.

5. Take all online tests.

**Negative Behaviors:**

1. Being absent from or being late for class.
2. Leaving class early.
3. Walking out of and coming back into class.
4. Sleeping in class.
5. Devalue the content of the course.
6. Behaving inappropriately in class (e.g., acting silly, conducting private conversations in the back of the room, distracting behaviors such as eating, drinking or chewing gum in class; defacing classroom furniture; etc.)
7. Being impolite, rude, or discourteous to me or to your classmates.
8. Not being adequately prepared for class.
9. Speak without thinking – demonstrate a lack of reasoning and critical thinking skills.
10. Submit research paper late.
11. Be absent for testing.

**Grading Policy:**

The grading policy and course grade appeal policy of the program are stated in the Radiation Therapy Student Handbook. The program grading policy utilizes the standards of the American Registry of Radiologic Technologist national registry exam.

Letter Grade	Numerical Range	Conversion
A	90% to 100%	Excellent
B+	85% to 89.9%	Very Good
B	80% to 84.9%	Good
C+	75% to 79.9%	Marginal / Acceptable
C	70% to 74.9%	Poor / Failing
I	Incomplete	
E	Unofficial withdrawal	
W	Official Withdrawal	
D / F	Does not apply to RTT courses	

There are no extra credit opportunities in this course.

**Attendance Policy:**

**BCC Attendance Policy:** All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor for each section of each course. These are to be established in writing on the individual course outline. Attendance will be kept by the instructor for administrative and counseling purposes.

**Radiation Therapy Program Attendance Policy:** Classroom attendance policy for the Radiation Therapy Program is stated in the Radiation Therapy Student Handbook. The student is responsible for adherence to this policy.

**Attendance Policy in this Course:** Students are expected to attend class regularly and punctually and for the full class period. Attendance will be taken at each class session. In the event of a late arrival, the student is expected to enter quietly without disturbing the class. In the event of an absence, it is the responsibility of the student to acquire the missed material. The attendance policy of this course will adhere to the attendance policy of the Radiation Therapy Program as stated in the Radiation Therapy Student Handbook.

Absences, lateness and early departures will diminish your overall performance in the course and, subsequently, will increase your risk of diminished performance on the ARRT national registry exam and the administration of responsible patient care. Additionally, the BCC Radiation Therapy Program provides employment assistance upon graduation from the program and ARRT registration; your classroom attendance behavior may be used by your instructor as an indicator to your employment attendance behavior.

A Research Methods for Medical Professionals workshop for all Radiation Therapy Students is presented by the Library in the Fall semester of the program. This workshop is designed to provide research assistance and assure accurate documentation and professional integrity. Failure to attend this presentation will require the student to submit a minimum of a four (4) page research paper covering the content of the workshop. Submission of this paper to the RTT 200 course instructor is required before Spring break. In the event that this paper is not submitted in the required timeframe, the student will be denied the opportunity to submit the final research paper.

### **Other College, Divisional, and/or Departmental Policy Statements**

The Radiation Therapy Program adheres to all Bergen Community College policies, including drug and alcohol use and smoking on campus, discrimination and harassment, rules and regulations governing conduct, rules governing academic integrity and acceptable use of information technology resources as stated in the BCC College Catalog – Policies.

The Bergen Community College Radiation Therapy Program adheres to a no cell phone policy in the classroom, laboratory and clinic.

## Course Outline and Calendar

**Note to Students:** The following Course Outline and Calendar is tentative and subject to change, depending upon the progress of the class.

<b>Week</b>	<b>Date(s)</b>	<b>Topics/Activities/Assignments</b>	<b>Readings</b>
			Chapters
1	Mon. Wed.	Thoracic cavity Thoracic cavity	20 & 21 19
2	Mon. Wed.	Thoracic cavity Thoracic cavity	17 & 18
3	Mon. Wed.	Abdominal cavity Abdominal cavity	22 & 23 24 & 25
4	Mon. Wed.	Abdominal cavity Test 1	17
5	Mon. Wed.	Head and Neck Head and Neck	11 & 12 13 & 14
6	Mon. Wed.	Head and Neck Head and Neck	15
7	Mon. Wed.	Male Reproductive and Genitourinary system Male Reproductive and Genitourinary system	26 27
8	Mon. Wed.	Spring Break Spring Break	
9	Mon. Wed.	Male Reproductive and Genitourinary system Male Reproductive and Genitourinary system	28
10	Mon. Wed.	Female Reproductive system Female Reproductive system	29 29
11	Mon. Wed.	Female Reproductive system Test 2	30
12	Mon. Wed.	Lymphatic system Lymphatic system	34 35
13	Mon. Wed.	Musculoskeletal system Musculoskeletal system	31 32
14	Mon. Wed.	Integumentary system Integumentary system Research Paper due	33 33
15	Mon. Wed.	Make up day / review Test 3	