Radiation Therapy Program Manual

Revised January 2016
Welcome to the Radiation Therapy Program!

Welcome to the Radiation Therapy Program at Broward College!

The Radiation Therapy program at Broward College is designed to educate and mentor future Radiation Therapists. The Program curriculum is delivered through scheduled classroom lectures, classroom activities, laboratory practice, and clinical internships.

We strongly believe that learning is a lifelong process that requires your continuous interaction. As future healthcare providers, you will need to remain adaptable to changes as it occurs in accordance with advances in medical science and Radiation Therapy. You will become dynamically involved in the learning process as the program progresses. It will be your responsibility as a student to fully utilize the educational opportunities provided to you.

As you progress in the Radiation Therapy Program you will develop an awareness of the profession's inherent responsibilities as well as established professional ethics and standards of practice. The faculty and staff look forward to working with you as you obtain the necessary academic and clinical skills required to realize your goal of becoming a Radiation Therapist.

This Program Manual outlines important information regarding the program, as well as the faculty's expectations of students enrolled in the Radiation Therapy program. We anticipate that you will have an active and enthusiastic role in the learning process.

On behalf of the faculty and administrators, welcome and best wishes for success.

Dr. Kathryn A. Almquist, DHSc, R.T. (R)(CT)(T)
Program Manager
Radiation Therapy
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Certificate Matriculation</td>
<td>3</td>
</tr>
<tr>
<td>Retention Plan</td>
<td>3</td>
</tr>
<tr>
<td>Progress Guidelines for Radiation Therapy</td>
<td>3</td>
</tr>
<tr>
<td>Preamble</td>
<td>3</td>
</tr>
<tr>
<td>Description of the Profession</td>
<td>3</td>
</tr>
<tr>
<td>Scope of Practice</td>
<td>3</td>
</tr>
<tr>
<td>Professional Credential</td>
<td>3</td>
</tr>
<tr>
<td>Technical Performance Standards</td>
<td>4</td>
</tr>
<tr>
<td>Mission Statement of the College</td>
<td>6</td>
</tr>
<tr>
<td>Vision Statement</td>
<td>6</td>
</tr>
<tr>
<td>Mission Statement</td>
<td>6</td>
</tr>
<tr>
<td>Core Values</td>
<td>6</td>
</tr>
<tr>
<td>Mission Statement of the Program</td>
<td>6</td>
</tr>
<tr>
<td>Philosphic Intent</td>
<td>7</td>
</tr>
<tr>
<td>Goals of the Radiation Therapy Program</td>
<td>7</td>
</tr>
<tr>
<td>Discrimination Policy</td>
<td>7</td>
</tr>
<tr>
<td>Program Outcomes</td>
<td>7</td>
</tr>
<tr>
<td>Career Opportunities</td>
<td>8</td>
</tr>
<tr>
<td>Placement Rates</td>
<td>8</td>
</tr>
<tr>
<td>Professional Behaviors</td>
<td>8</td>
</tr>
<tr>
<td>Code of Professional Behaviors</td>
<td>8</td>
</tr>
<tr>
<td>Health Science Professional Behaviors</td>
<td>8</td>
</tr>
<tr>
<td>Procedures</td>
<td>10</td>
</tr>
<tr>
<td>Consequences Based on Violation</td>
<td>10</td>
</tr>
<tr>
<td>Broward College Student Code of Conduct</td>
<td>10</td>
</tr>
<tr>
<td>Consequences Based on Academic Dishonesty</td>
<td>12</td>
</tr>
<tr>
<td>Student Organizations</td>
<td>13</td>
</tr>
<tr>
<td>Recording Prohibition</td>
<td>13</td>
</tr>
<tr>
<td>Student Code of Conduct Procedure</td>
<td>13</td>
</tr>
<tr>
<td>Article I: Student Conduct Review Procedures</td>
<td>13</td>
</tr>
<tr>
<td>Article II: Sanctions</td>
<td>13</td>
</tr>
<tr>
<td>Article III: Appeals</td>
<td>13</td>
</tr>
<tr>
<td>Article IV: Hearing Procedures</td>
<td>14</td>
</tr>
<tr>
<td>Article V: Interpretation and Revision</td>
<td>15</td>
</tr>
<tr>
<td>Sexual Harassment</td>
<td>15</td>
</tr>
<tr>
<td>Substance Abuse Policy</td>
<td>15</td>
</tr>
<tr>
<td>Tardiness and Attendance Policies</td>
<td>15</td>
</tr>
<tr>
<td>Learning Strategies</td>
<td>17</td>
</tr>
<tr>
<td>Advisement and Counseling Services</td>
<td>17</td>
</tr>
<tr>
<td>Chain of Command</td>
<td>17</td>
</tr>
<tr>
<td>Guidelines for Advancement</td>
<td>17</td>
</tr>
<tr>
<td>Typical Advancement</td>
<td>18</td>
</tr>
<tr>
<td>Progression Protocol</td>
<td>18</td>
</tr>
<tr>
<td>Unable to Advance</td>
<td>18</td>
</tr>
<tr>
<td>Academic Standards</td>
<td>19</td>
</tr>
<tr>
<td>Radiation Therapy Courses – Didactic and Clinical</td>
<td>20</td>
</tr>
<tr>
<td>Retention Plan</td>
<td>20</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>21</td>
</tr>
<tr>
<td>Dismissal</td>
<td>21</td>
</tr>
<tr>
<td>Re-Entry Protocol</td>
<td>21</td>
</tr>
<tr>
<td>Updating Student Information</td>
<td>21</td>
</tr>
<tr>
<td>Matriculation</td>
<td>21</td>
</tr>
<tr>
<td>Catalog of Entry</td>
<td>22</td>
</tr>
<tr>
<td>A.S. Degree - Course of Study</td>
<td>22</td>
</tr>
<tr>
<td>Technical Certificate - Course of Study</td>
<td>23</td>
</tr>
</tbody>
</table>
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PROGRAM DISCLAIMER

The provisions of this Manual are not to be regarded as an irrevocable contract between the student and the College. The College reserves the right to designate the effective date of changes in College or program protocols. The right is reserved to change any rule or regulation of the program at any time, including those related to admission, instruction and graduation.

All such changes are effective at such time as the proper authorities determine and may not only apply to prospective students but also to those who already are enrolled in the program. All enrolled students will be notified in writing of such changes as they occur.
FREQUENT CONTACTS

<table>
<thead>
<tr>
<th>Contacts</th>
<th>Websites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advising</td>
<td><a href="http://www.broward.edu/studentresources/advising/Pages/default.aspx">http://www.broward.edu/studentresources/advising/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Student Success</td>
<td><a href="http://www.broward.edu/studentresources/studentsuccess/Pages/default.aspx">http://www.broward.edu/studentresources/studentsuccess/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Student Counseling</td>
<td><a href="http://www.broward.edu/studentresources/Pages/assistance.aspx">http://www.broward.edu/studentresources/Pages/assistance.aspx</a></td>
</tr>
<tr>
<td>Academic Success Center</td>
<td><a href="http://www.broward.edu/studentresources/unc/Pages/default.aspx">http://www.broward.edu/studentresources/unc/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Bookstore</td>
<td><a href="http://www.broward.edu/studentresources/bookstore/Pages/default.aspx">http://www.broward.edu/studentresources/bookstore/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Registrar</td>
<td><a href="http://www.broward.edu/academics/registrar/Pages/default.aspx">http://www.broward.edu/academics/registrar/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Disability Services</td>
<td><a href="http://www.broward.edu/studentresources/disability/Pages/default.aspx">http://www.broward.edu/studentresources/disability/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Financial Aid</td>
<td><a href="http://www.broward.edu/financialaid/Pages/default.aspx">http://www.broward.edu/financialaid/Pages/default.aspx</a></td>
</tr>
<tr>
<td>Campus Safety &amp; Security</td>
<td><a href="http://www.broward.edu/safety/Pages/default.aspx">http://www.broward.edu/safety/Pages/default.aspx</a></td>
</tr>
</tbody>
</table>

FREQUENT VISITED WEBSITES

SACS ACCREDITATION
The Radiation Therapy Program maintains national accreditation through the Southern Association of Colleges and Schools (SACS): http://www.sacs.org/.

JRCERT ACCREDITATION
JRCERT Standards for the Radiation Therapy Program can be found on the following link: 2014 Radiation Therapy Standards

CURRICULUM
The Radiation Therapy Program is competency based and uses as a guideline the American Society of Radiologic Technologists (ASRT) Curriculum Guide: http://www.asrt.org/educators/asrt-curricula/radiation-therapy

ARRT CERTIFICATION
Graduates of the program will be eligible to take the American Registry of Radiologic Technologists (ARRT) Certification Exam: http://www.arrt.org/.

FLORIDA LICENSURE
Graduates of the program will be eligible to apply for license from the Florida Department of Health, Bureau of Radiation Control: http://www.doh.state.fl.us/mqa/Rad-Tech/index.html

OTHER STATE LICENSING AGENCIES
PROGRAM INFORMATION

PROGRAM DESCRIPTION

The Radiation Therapy Program is one of over twenty-seven (27) health career Programs offered as part of the health science programs at Broward College. It is under review for accreditation by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Broward College itself is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award both an Associate Degree as well as a Certificate in Radiation Therapy.

The curriculum provides the student the opportunity to develop competency in technical skills through planned experiences in the classroom, laboratory and off-site clinical facilities. The Program is dedicated to developing radiation therapists who are quality-minded and who will ultimately make unique contributions to the field of radiation therapy.

PRACTICE STANDARDS FOR RADIATION THERAPY

PREAMBLE
The purpose of this document is to define the Scope of Practice for Radiation Therapy Professionals and to specify their roles as members of the health care team, acting in the best interest of the patient. This scope of practice is a "living" document that will evolve as the technology expands.

DESCRIPTION OF THE PROFESSION
Radiation therapy is the art and science of treatment delivery to individuals to restore, improve, and enhance performance; diminish or eradicate pathology; facilitate adaptation to the diagnosis of malignant disease; and promote and maintain health. Because the major focus of radiation therapy is the delivery of prescribed dosages of radiation to individuals from external beam and/or brachytherapy radiation sources or hyperthermia units, the radiation therapist's concern is with those factors that influence radiation dose delivery, individual well-being, and responsiveness to treatment, as well as those factors serving as barriers or impediments to treatment delivery.

The practice of radiation therapy is performed by competent radiation therapists who deliver care to the patient in the therapeutic setting and are responsible for the simulation, treatment planning, and administration of a prescribed course of radiation therapy and/or hyperthermia. Additional related setting where radiation therapists practice include education, management, industry, and research.

SCOPE OF PRACTICE
The curriculum base of a radiation therapist is that outlined in the ASRT Professional Curriculum for Radiation Therapy. Education program standards are those defined in the Essentials and Guidelines of an Accredited Educational Program for the Radiation Therapist. The scope of practice for radiation therapists includes:

1. Delivering radiation therapy treatments as prescribed by a radiation oncologist.
2. Performing simulation, treatment planning procedures, and dosimetric calculations.
3. Detecting and reporting significant changes in patients' conditions, and determining when to withhold treatment until the physician is consulted.
4. Monitoring doses to normal tissues within the irradiated volume to ensure tolerance levels are not exceeded.
5. Constructing/preparing immobilization, beam directional, and beam modification devices.
6. Performing quality assurance activities, detecting equipment malfunctions, and taking appropriate action.
7. Applying principles of radiation protection (ALARA) at all times.
8. Participating in brachytherapy procedures.
10. Identifying and managing emergency situations.
11. Educating and monitoring students and other health care providers.
12. Educating patients, their families, and the public about radiation therapy.
13. Preparing and/or administering contrast media, and/or medications as prescribed by a licensed practitioner with the appropriate clinical and didactic education where state and/or institutional policy permits.
14. Performing venipuncture with the appropriate clinical and didactic education where state and/or institutional policy permits.
15. Administering medications at the physician’s request according to policy.
16. Starting and maintaining intravenous (IV) access per orders when applicable.

PROFESSIONAL CREDENTIAL
A Radiation Therapist possesses competency-based certification by successfully passing a credentialing examination. The initials RT (T) (ARRT) indicate a registered technologist in radiation therapy and certification as a radiation therapist by the American Registry of Radiologic Technologists.

TECHNICAL STANDARDS

The practice of radiation therapy is performed by competent radiation therapist who deliver care to the patient in the therapeutic setting and are responsible for the simulation, treatment planning, and administration of a prescribed course of radiation therapy and/or hyperthermia. Additional related setting where radiation therapists practice include education, management, industry, and research.

The standards are divided into five sections: scope of practice (delineated above), clinical performance, quality performance, professional performance, and advisory opinion.

Clinical Performance Standard defines the activities of the practitioner in the care of patients and delivery of diagnostic and therapeutic procedures. It incorporates patient assessment and management with procedural analysis, performance, and evaluation.

Quality Performance Standard defines the activities of the practitioner in the technical areas of performance including equipment and material assessment, safety standards, and total quality management.

Professional Performance Standard defines the activities of the practitioner in the areas of education, interpersonal relationships, self-assessment, and ethical behavior.

Advisory Opinion Statements are interpretations of the standards intended for clarification and guidance for specific practice issues.


TECHNICAL PERFORMANCE STANDARDS

Students entering the Radiation therapy Program must meet certain standards of performance in order to progress in their course work and ultimately graduate. These standards include meeting cognitive, affective, and psychomotor demands associated with the profession. Students enrolled in the program should carefully review all of the performance standards in this Manual as follows:

Data Collection Standards
- Tactile ability that is sufficient for collection and assessment of data such as pulse and temperature.
- Ability to adjust settings on equipment as needed.
- Auditory ability sufficient to monitor and assess health care needs including but not limited to hearing monitor alarms, emergency signals, auscultatory sounds, and verbal communication as when a patient/client calls for assistance.
- Visual ability sufficient for assessing and observing the patient/client and environment including near and far acuity, depth perception, visual fields, and color vision.
Communication Standards

- Possess sufficient communication skills to interact effectively with others verbally, non-verbally and in written form demonstrating sensitivity to individual and cultural differences.
- Ability to express yourself verbally in a language that will be understood by a majority of patients/clients.
- Possess ability to recognize, interpret and respond to non-verbal cues from patients and clients.

Sensorimotor Standards

- Gross and fine motor abilities sufficient to provide safe and effective care including the ability to assist with positioning of patients.
- Standing and walking for extended periods of time and physical abilities sufficient to move from room to room, to maneuver in patient rooms and other small areas.
- The motor skills of stooping, kneeling, crouching, crawling, reaching, and handling such as required to assist patient/client during a radiotherapeutic exam/procedure.
- Ability to perform medium work (defined as lifting 60 pound maximum with frequent lifting or carrying of objects weighing up to 30 pounds) such as required manually position medical equipment.
- Ability to walk with good balance; resist challenge while walking and support a patient/client who may have poor balance/weakened musculature during gait, ability to negotiate environmental barriers safely with patient/client.
- Fine motor coordination (Manual dexterity) sufficient to manipulate and use medical equipment.
- Independent mobility including transportation to/from campus and clinical courses.
- Stamina to participate in physical activity over prolonged periods of time while positioning a patient/client and providing physical assistance to patients/clients.
- Information detailed on the Medical History and Physical Examination form is legally privileged and confidential. It is intended for use by the Health Science program unless written consent has been provided for release to other parties.

Intellectual and Conceptual Standards

- Ability to assimilate, within a reasonable amount of time, large amounts of complex, technical and detailed information from a variety of sources.
- Ability to identify cause-effect relationship in order to make judgments and set priorities in clinical situations.
- Recognize physiological changes in patient/client status and act appropriately.
- Ability to function during stressful situations.
- Ability to prioritize multiple tasks, integrate information and make decisions promptly.

Behavioral and Social Standards

- Possess sufficient interpersonal skills to establish meaningful and effective rapport with patients/clients, families, and colleagues from a variety of different social, emotional, economic, cultural, ethnic, religious and intellectual backgrounds as well as within all age groups.
- Ability to cope with heavy workload schedule and patient demands.
- Function effectively during periods of high stress.
- Display adaptability.
- Accept responsibility for own behavior.
- Engage in self-assessment activities which include identification of learning needs.

Ethical Standards

- Exhibit a respect for truth and a commitment to honesty in all didactic and clinical pursuits adhere to ethical and legal guidelines established by applicable national organizations and governmental agencies.
- Abide by all institutional regulations.
- Appreciate and respect patient/family confidentiality.
- Information detailed on the Medical History and Physical Examination form is legally privileged and confidential. It is intended for use by the Health Science program unless written consent has been provided for release to other parties.
MISSION STATEMENT OF THE COLLEGE

VISION STATEMENT

Broward College will be a destination for academic excellence, serving students from local communities and beyond. The College will embrace diversity - student, faculty, staff, and business partnerships - and foster a welcoming, affirming, and empowering culture of respect and inclusion. The College will stand at the leading edge of technological and environmentally sound innovation, providing attainable, high-quality educational programs. Broward College will be recognized for its recruitment and retention of diverse, outstanding faculty and staff whose primary focus will be to promote the success of each individual student while supporting lifelong learning for all students. As a model post-secondary institution, the College will connect its students to diverse local and global communities through technical, professional, and academic careers.

MISSION STATEMENT

The mission of Broward College is to achieve student success by developing informed and creative students capable of contributing to a knowledge- and service-based global society. The College is committed to fostering a learning-centered community that celebrates diversity and committed to fostering a learning-centered community that celebrates diversity and inclusion by empowering and engaging students, faculty and staff.

CORE VALUES

- **Academic Excellence and Student Success** Achieving student success through high-quality, learning-centered programs and services while continuously evaluating and improving student learning outcomes that reflect the highest academic standards. This is accomplished by providing flexible educational opportunities accessible to all students, regardless of time or place.

- **Diversity and Inclusion** Creating a community that celebrates diversity and cultural awareness while promoting the inclusion of all its members.

- **Innovation** Developing and implementing the most emergent technologies and teaching/learning methods and strategies to create learning environments that are flexible and responsive to local, national, and international needs.

- **Integrity** Fostering an environment of respect, dignity, and compassion that affirms and empowers all its members while striving for the highest ethical standards and social responsibility.

- **Sustainability** Ensuring effective, efficient use of college resources while implementing fiscally sound practices and environmentally sustainable initiatives that can be modeled in collaboration with our community.

- **Lifelong Learning** Promoting the educational growth and development of all individuals through a variety of postsecondary professional, technical, and academic programs and services.

MISSION STATEMENT OF THE PROGRAM

The College’s mission is reflected in the program’s mission statement:

The Radiation Therapy Program at Broward College seeks to prepare students with the knowledge, skills, and values necessary to practice as entry-level radiation therapists and to pass the American Registry of Radiologic Technologists (ARRT) certification examination. The program and faculty endeavor to prepare competent, compassionate, ethical, and culturally sensitive practitioners committed to professional development through life-long learning. Radiation Therapy exists as a technical education program to provide a vital human resource that can meet the health care needs of our community.
PHILOSOPHY

The Radiation Therapist is an accepted and valued member of the health care team who practices in a multicultural medical environment. Development of competent and compassionate Radiation Therapists requires a quality education founded on a well-rounded professional curriculum that includes cognitive, affective, and psychomotor learning outcomes that can be measured by an observable change in behavior. The learning process should provide opportunities for evaluation based on didactic and clinical course objectives as well as, opportunities for on-going student self-evaluation. In the development of radiation therapy instruction the varied nature of the student dictates that a multitude of learning styles will be present. We recognize that there will be such differences among learners.

GOALS OF THE RADIATION THERAPY PROGRAM

Goal #1: Prepare the student to be a competent entry-level radiation therapist by providing a balanced didactic and clinical curriculum.

Student Learning Outcome:
- Clinically competent students upon graduation.
- Employer satisfaction indicates graduate was adequately prepared as an entry-level Radiation Therapist.
- Graduates will pass the American Registry of Radiologic Technologists national examination on their first attempt.

Goal #2: Prepare the student to demonstrate effective didactic and clinical critical thinking skills.

Student Learning Outcome:
- Students will demonstrate progression of continual improvement of clinical skills throughout the program.
- Students will demonstrate professional development as a result of didactic experience.
- Students will recognize inconsistencies in patient set-ups and be able to resolve them.
- Students will demonstrate knowledge of image interpretation, normal tissue tolerance doses, and treatment planning.

Goal #3: Students will be able to demonstrate effective communication skills.

Student Learning Outcome:
- Students will effectively communicate with clinical personnel.
- Students will effectively communicate with patients.
- Students will demonstrate effective written communication skills.

Goal #4: Students will demonstrate professionalism in the clinical setting.

Student Learning Outcome:
- Students will demonstrate a willingness to seek learning opportunities.
- Student displays professionalism.
- Students perform in an ethical manner.

DISCRIMINATION POLICY

In accordance with College policy (6Hx2-3.34), the program affirms its commitment to ensure that each student shall be permitted to study and otherwise participate in the BC community in an environment free from any form of illegal discrimination, including race, color, religion, age, disability, sex, sexual orientation, national origin, marital status and veteran status. The program acknowledges its obligation to work towards a community in which diversity is valued and opportunity is equalized.

PROGRAM OUTCOMES

For Enrollment Rates and Attrition please refer to the Program Website to view current Program Outcomes.
http://www.broward.edu/academics/programs/radiation/Pages/default.aspx
CAREER OPPORTUNITIES

According to the American Society of Radiologic Technologists (ASRT) radiation therapist may be employed in hospitals, clinics, private offices, education, research and industry.

The supply and demand ratio affects salaries, depending on experience and responsibilities. The United States Department of Labor publishes the most current salaries for radiation therapists. Please refer to the following link for the most current salaries nationwide http://www.bls.gov/ooh/Healthcare/Radiation-therapists.htm

PLACEMENT RATES

Each year, within six months following graduation, the program conducts a graduate survey. This survey serves to collect job placement data and graduate satisfaction with the Program.

PROFESSIONAL BEHAVIORS

Students are expected to demonstrate interest, ability, and aptitude for the responsibilities related to the field of Radiation Therapy from the therapist’s perspective. When choosing a profession, an individual must be willing to assume the professional behaviors inherent to that profession. This transformation begins in the classroom and laboratory settings with a continuation into the clinical arena. Students are expected to exhibit initiative and interest in learning by actively participating in the variety of learning opportunities the program offers.

Professional behaviors include, but are not limited to:

* Commitment to Learning
* Interpersonal Skills
* Communication Skills
* Effective Use of Time and Resources
* Use of Constructive Feedback
* Problem Solving
* Professionalism
* Responsibility
* Critical Thinking
* Stress Management

The above criteria are evaluated throughout the Program by the program manager, clinical coordinator, clinical instructor, and clinical supervisor feedback. Verbal and/or written feedback will be provided to students. Action plans will be developed to enable the student to be a successful health care professional.

Disclosing confidential information to unauthorized sources, insubordination to academic or clinical faculty, disregard for patient/clients’ or other persons’ welfare, disinterest in studies as shown by frequent tardiness or unexcused absence, failure to participate in class/clinic assignments/discussions, and dishonesty in written assignments or examinations are examples of behaviors that will not be acceptable for continuation in the program.

The Health Science programs at the College have established a Code of Professional Behaviors which are expected to be practiced by the students enrolled in the program. The code is in addition to the College’s Student Code of Conduct. Both codes and the consequences of violations are detailed on the following page.

CODE OF PROFESSIONAL BEHAVIORS

HEALTH SCIENCE PROFESSIONAL BEHAVIORS

The program believes that by adhering to high standards of integrity and competence the student upholds the dignity and autonomy of his/her chosen profession.

The student is expected to develop and demonstrate the following professional behaviors regardless of the program of study in the health sciences and in all settings related to the educational process (classroom, simulated laboratory, clinical sites, etc.), in addition to abiding and upholding the regulations and policies set forth by the Student Code of Conduct of Broward College (detailed herein), as well as, the Code of Ethics...
espoused by the professional organizations, regulating bodies, and credentialing agencies of the students’ chosen profession.

For matters relating to violation of Broward College’s Student Code of Conduct, Student Code of Conduct procedures will be followed.

Guidelines for professional behavior consist of three categories:

- Personal Responsibility
- Competence and Self-Improvement
- Professional Responsibility

Within each category, **critical guidelines** are in bold emphasizing the critical nature of the behavior.

**Personal Responsibility:** The student contributes to a positive learning environment by accepting personal responsibility for demonstrating appropriate behavior in the classroom, during laboratory activities and while attending all clinical rotations. Acknowledging professional responsibilities, the student conducts self as a positive representative of Broward College. The guidelines for Personal Responsibility are:

1. Contribute to a positive learning environment.
2. Be punctual for all classroom, laboratory and clinical activities.
3. Attend consistently according to the attendance policy of the program.
4. Notify the instructor of any necessary absence or projected lateness.
5. Take responsibility for obtaining notes, handouts, or other materials presented during an absence.
6. Arrive prepared for class, lab or clinical, having completed any assignments given.
7. Accept personal responsibility for appropriate behavior.
8. Dress in the assigned lab or clinical uniform whenever required.
10. Conduct self as a positive representative of Broward College.

**Competence and Self-Improvement:** The student demonstrates an awareness of the impact of self-directed learning on developing competence in the chosen profession and takes initiative to self-assess as a means of promoting self-improvement. The guidelines for Competence and Self-Improvement are:

1. Commit to the learning and mastery of knowledge, skills, attitudes and beliefs of the chosen profession.
2. Be motivated to learn and take appropriate initiative to enhance one’s own learning experiences.
3. Know limits of own abilities; recognizing the need for additional practice when deficiencies are evidenced.

**Professional Responsibility:** The student conducts self during all interactions in a manner which reflects the standards of professionalism in the health professions: respect, confidentiality, honesty and integrity. Acting from a moral and ethical viewpoint, the student demonstrates high regard for self and others. The guidelines for Professional Responsibility are:

1. Demonstrate a respectful attitude towards peers and staff.
2. Demonstrate appropriate communication at all times, refraining from the use of inappropriate language and/or gestures.
3. Demonstrate respect for the patient/client’s dignity, privacy, and cultural values.
4. Discuss difficult issues with sensitivity and objectivity.
5. Use good judgment in mediating differences that may arise between self and others.
6. Maintain confidentiality in all interactions.
7. Abide by HIPAA regulations regarding confidentiality in patient/client interactions.
8. Demonstrate willingness to receive constructive feedback.
9. Commit to honesty in all interactions.
10. Demonstrate compassion, emotional support, and empathy at all times without projecting one’s own viewpoints or values.
PROCEDURES
Students are expected to comply with all of the professional behavior guidelines as detailed. In the event that there is a violation of the behaviors or if the faculty and/or administrators of the program deem it necessary, a Violation of Professional Behaviors form may be completed in order to initiate discussion about the violation as well to provide documentation of the violation.

A Professional Behaviors Violation form may be completed by faculty, administrators, or staff. The form details the date of the violation, a description of the violation, and an outline of a plan of action.

The student may be asked to attend a conference with the faculty member or an administrator to discuss the completed form. All discussions will remain confidential. An opportunity to engage in discussion regarding the violation is provided as a means by which the student can be made aware of their own behavior or the perception of their behavior by others. A copy of the form will be given to the student; the original will be placed in the student’s departmental file as a written statement of the reprimand.

CONSEQUENCES BASED ON VIOLATION
All consequences are based upon the nature of the violation in terms of the seriousness of the unprofessional behavior.

First Violation: Verbal Warning or Written Reprimand: Depending upon the nature of the violation and at the discretion of the faculty and/or administrators of the program involved, the student may be given a verbal warning or a written reprimand.

For violations necessitating a written reprimand, students are notified, in writing, via the Violation of Professional Behavior form, that he/she has violated a professional behavior and of any plan of action that might be needed. This written reprimand implies the probability of more severe disciplinary consequences if the student violates the Code of Professional Behaviors for a second time.

Repeat Violation: If the student violates the Code of Professional Behaviors a second time, the student may be required to comply with one or more of the following remediations:

1. Meeting with the Health Science counselor,
2. Performing a community project,
3. Interviewing a health care professional in the field to determine what consequences would occur in the workplace if a similar violation took place,
4. Referral to an anger management course,
5. Suspension from the program for a timeframe determined by the Associate Dean
6. Other as determined by the Associate Dean in relation to the violation

Past reprimands may be considered in imposing consequences for further violations. Further violations, of the same nature or different, may result in dismissal from the program

References:
Armstrong Atlantic State University, Honor Code and Code of Conduct
Edison State College, Cardiovascular Program, Ethics Guidelines
Miami-Dade Community College, Medical Center Campus, School of Allied Health Code of Conduct
Oregon Health Science University, School of Nursing, Honor Code Policy Statement
Sargent College, Academic Conduct Code
University of Florida, College of Nursing, Student Academic Honesty Guidelines
Wayne State University, School of Medicine, Professional and the Honor Code

BROWARD COLLEGE STUDENT CODE OF CONDUCT

The Student Code of Conduct outlines acceptable and unacceptable behavior for BC students, as well as
appropriate disciplinary procedures and sanctions. Upon admission to Broward College, students agree to act responsibly in all areas of personal and social conduct and to take full responsibility for their individual and collective action. Because learning can only be achieved in an atmosphere free of intimidation and coercion, students shall observe local, state, and federal laws as well as the academic and behavioral regulations found in the BC Student Manual, the College Catalog, other official publications, and the BC web site at http://www.broward.edu.

Any student or student organization found to have committed the following misconduct, on or off campus, is subject to the disciplinary sanctions outlined in Student Code of Conduct Procedures.

1. Dishonesty, including but not limited to the following: a. Cheating, plagiarism, or other forms of academic dishonesty.
   The term "cheating" includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when specifically prohibited from doing so by the instructor; looking at text, notes or another person’s paper during an examination when not permitted to do so. Cheating also includes the giving of work or information to another student to be copied and/or used as his or her own. This includes but is not limited to, giving someone answers to exam questions either when the exam is being given or after having taken an exam; informing another student of specific questions that appear or have appeared on an exam in the same academic term; giving or selling a term paper, report, project or other restricted written materials to another student.

   The term "plagiarism" includes, but is not limited to, an attempt of an individual to claim work of another as the product of his/her own thoughts regardless of whether that work has been published. Plagiarism includes, but is not limited to, quoting improperly or paraphrasing text or other written materials without proper citation on an exam, term paper, homework, or other written material submitted to an instructor as one’s own work. Plagiarism also includes handing in a paper to an instructor that was purchased from a term paper service or downloaded from the Internet and presenting another person’s academic work as one’s own. Individual academic departments may provide additional examples in writing of what does and does not constitute plagiarism, provided that such examples do not conflict with the intent of this policy.
   - Furnishing false information to any BC official or faculty member.
   - Forgery, alteration, or misuse of any BC document, record, or instrument of identification.
   - Tampering with the election of any recognized BC student organization.

2. Disruption: disruption or obstruction of teaching, research, administration, disciplinary proceedings, other BC activities, including its public-service functions on or off campus, or other authorized non-BC activities, when the act occurs on BC premises.

3. Abuse: physical abuse, verbal abuse, threats, intimidation, harassment, coercion and/or other conduct which threatens or endangers the physical or emotional health or safety of any person.

4. Theft or damage to property: attempted or actual theft of and/or damage to BC property or the property of a member of the BC community, or any recognized BC student organization.

5. Discrimination

6. Sexual Harassment

7. Sexual Battery/Assault

8. Hazing: Florida State Statute 240.1325

9. Non-compliance with directions: failure to comply with directions of BC officials or law enforcement officers acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.

10. Keys: unauthorized possession, duplication, or use of keys to any BC premises or unauthorized entry to or use of BC premises.

11. Violation of published BC policies and procedures, rules or regulations.

12. Violation of law: violation of federal, state or local law on BC premises or at BC sponsored or supervised activities.

13. Controlled substances: use, possession or distribution of narcotic or other controlled substances except as expressly permitted by law. Smoking in classrooms, on elevators, and in other designated non-smoking areas is prohibited.

14. Alcohol: use, possession, or distribution of alcoholic beverages except as expressly permitted by the law and BC regulations.

15. Public intoxication.

16. Weapons and dangerous materials: illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on BC premises.

17. Unauthorized demonstration: participation in a campus demonstration which disrupts the normal operations of BC and infringes on the rights of other members of the BC community, or leading or inciting others to disrupt scheduled and/or normal activities within any campus/center building or area, or
intentional obstruction which unreasonably interferes with freedom of movement, either pedestrian or vehicular, on campus.

18. Obstruction of movement: obstruction of the free flow of pedestrian or vehicular traffic on any BC premises or at BC sponsored or supervised functions.

19. Disorderly conduct: conduct which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to breach the peace on BC premises or at functions sponsored by, or participated in by BC.

20. Computer usage:
   a. Unauthorized entry into a file, to use, read, or change the contents, or for any other purpose.
   b. Unauthorized transfer of a file.
   c. Unauthorized use of another individual’s identification and password.
   d. Use of computing facilities to interfere with the work of another student, faculty member or BC official.
   e. Use of computing facilities to send or receive obscene or abusive messages
   f. Use of computing facilities to interfere with the normal operation of BC computing system.

21. False representation: contracting or representation in the name of the College.

22. Abuse of the student discipline system, including but not limited to:
   a. Failure to appear before the chief student affairs officer, Hearing Officer, Student Conduct Committee, or other BC officials when requested to do so;
   b. Falsification, distortion, or misrepresentation of information before a Student Conduct Committee;
   c. Disruption or interference with the orderly conduct of a Student Conduct Hearing;
   d. False accusations of student misconduct knowingly without cause;
   e. Attempting to discourage an individual’s proper participation in, or use of, the student discipline system;
   f. Attempting to influence the impartiality of a member of a Student Conduct Committee prior to, and/or during the course of, the Student Conduct Hearing;
   g. Harassment (verbal or physical) and/or intimidation of a member of a Student Conduct Committee prior to, during, and/or after a Student Conduct Hearing;
   h. Failure to comply with the sanction(s) imposed under the Student Code;
   i. Influencing or attempting to influence another person to commit an abuse of the student discipline system.

23. Bribery: offering or giving money or any item of service to a BC employee for the purpose of attempting to obtain assistance that would not have otherwise been provided.

24. Violation of law and BC discipline.
   a. If a student is charged only with an off-campus violation of federal, state, or local laws, but not with any other violation of this Code, disciplinary action may be taken and sanctions imposed for grave misconduct which demonstrates flagrant disregard for the BC community and/or disrupts the educational mission of BC.
   b. BC disciplinary proceedings may be instituted against a student charged with violation of a law that is also a violation of this Student Code. Proceedings under this Student Code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off campus.
   c. When a student is charged by federal, state or local authorities with a violation of law, BC will not request or agree to special consideration for that individual because of his or her status as a student. If the alleged offense is also the subject of a proceeding before the Student Conduct Committee under the Student Code, however, BC may advise off-campus authorities of the existence of the Student Code and of how such matters will be handled internally within the BC community.
   d. BC will cooperate fully with law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives, as they deem appropriate.

CONSEQUENCES BASED ON ACADEMIC DISHONESTY

Breaches of the College’s policies pertaining to academic dishonesty may result in academic penalties and/or disciplinary action at the discretion of the instructor. Academic penalties may include, but are not limited to, a failing grade for a particular assignment or a failing grade for a particular course. Additionally, the student may be referred to the chief student affairs officer of the campus/center for violations of the Student Code of Conduct.
STUDENT ORGANIZATIONS

Student organizations (as well as members and officers individually and collectively) may be held accountable when an alleged offense is committed by one or more members or guests of the organization, and any of the following conditions apply:
1. The offense occurred at an event that was sanctioned by an officer of the organization;
2. Organizational funds are used to finance the activity;
3. The event where the offense occurred is substantially supported by the organization’s membership;
4. Members with knowledge of the forthcoming violation did not attempt to prevent the infraction;
5. The organization fails to report or chooses to protect the individuals(s) alleged to have committed the offense.

RECORDING PROHIBITION

Students may not make an audio or video recording of an instructor or speaker unless prior consent of the instructor or speaker is obtained. However, if such recording is an Americans with Disabilities Act accommodation, prior notification is required, rather than consent.

STUDENT CODE OF CONDUCT PROCEDURE

The administration of student discipline shall be flexible and consistent with the philosophy and educational objectives of Broward College. In those cases not likely to result in a termination of a student’s enrollment at the College, the campus/center chief student affairs officer shall have the responsibility for the administration of student sanctions and may impose varying degrees of disciplinary actions.

ARTICLE I: STUDENT CONDUCT REVIEW PROCEDURES

1. Any member of BC community may file charges against any student or student organization for misconduct. Charges shall be prepared in writing and directed to the chief student affairs officer on the campus/center where the violation was committed. Any charge(s) should be submitted as soon as possible after the event takes place, preferably within forty-eight hours.
2. The chief student affairs officer of the campus/center, after reviewing the evidence and meeting with witnesses and accused student, may impose sanctions outlined in this Procedure. The student shall be informed of sanctions in writing.

ARTICLE II: SANCTIONS

1. Warning: A notice in writing to the student that the student is violating or has violated institutional regulations.
2. Probation: A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation(s) during or after the probationary period.
3. Loss of Privileges: Denial of specified privileges for a designated period of time.
4. Fines: Previously established and published fines may be imposed.
5. Restitution: Compensation for loss, damage or injury. This may take the form of appropriate service and/or monetary or material replacement.
6. Discretionary Sanctions: Work assignments, service to BC or other related discretionary assignments
7. BC Suspension: Separation of the student from BC for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
8. BC Expulsion: Permanent separation of the student from BC.
9. The following sanctions may be imposed upon BC groups or organizations:
   a. Those sanctions listed above;
   b. Deactivation or loss of specific organizational privileges for a specified period of time.

Other than BC suspension and expulsion, disciplinary sanctions shall not be made part of the student’s permanent academic record, but shall become part of the student's confidential record.

Upon graduation, the student's confidential record may be expunged of disciplinary actions other than BC suspension or BC expulsion, upon application to the Vice President for Student Affairs. Cases involving the imposition of sanctions other than BC suspension or BC expulsion shall be expunged from the student’s confidential record five years after final disposition of the case.

ARTICLE III: APPEALS

1. A student, student organization, or complainant may appeal the sanctions imposed by the chief student affairs officer of the campus/center to the Vice President for Student Affairs. Such appeals shall be in
writing and shall be delivered to the Vice President for Student Affairs within five business days of the receipt of the sanctions from the campus/center chief student affairs officer.

2. If a student appeals the decision of the chief student affairs officer to the Vice President for Student Affairs, the chief student affairs officer shall decide if sanctions shall be in effect immediately or pending the outcome of the appeal process. If the student or student organization poses a threat to any person, is unruly, disruptive, uncontrollable, damages or threatens to damage any property, or some other very serious condition exists, the chief student affairs officer of the campus/center may suspend the student or organization from activity at BC immediately, and have the student escorted off BC property.

3. The chief student affairs officer will forward all necessary paperwork to the Vice President, including but not limited to all incident reports filled out by BC personnel, all security reports, any witness statements, and any police reports.

4. If the matter is referred to the Vice President for Student Affairs, he/she will decide if the matter will be heard and notify the student or student organization in writing of his/her decision. If the matter will be heard, the Vice President for Student Affairs will refer the case to the Student Conduct Committee. The Student Conduct Committee is a sub-committee of the Academic Standards.

5. The Student Conduct Committee, after hearing the case in the manner outlined in this Procedure, shall recommend sanction(s) to the Vice President for Student Affairs. The Vice President may accept, reject, or modify the recommendation offered by the Student Conduct Committee.

6. The Vice President for Student Affairs shall forward all pertinent paperwork to the Hearing Officer who shall present the charges to the student or student organization in written form. A time shall be set for a hearing, not less than five or more than fifteen business days after the student has been notified. Maximum time limits for scheduling of hearings may be extended at the discretion of the Hearing Officer.

**ARTICLE IV: HEARING PROCEDURES**

1. Hearings normally shall be conducted in private. At the request of the accused student(s), and subject to the discretion of the Hearing Officer, a representative of the student press may be admitted, but shall not have the privilege of participating in the hearing. Admission of any person to the hearing shall be at the discretion of the Student Conduct Committee and/or its Hearing Officer.

2. In hearings involving more than one accused student, the Hearing Officer of the Student Conduct Committee, at his or her discretion, may permit the hearings concerning each student to be conducted separately.

3. The complainant and the accused have the privilege of being assisted by any advisor they choose, at their own expense. The advisor may be an attorney. The complainant and/or the accused are responsible for presenting his or her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing before a Student Conduct Committee.

4. The complainant, the accused, and the Student Conduct Committee shall have the privilege of presenting witnesses, subject to the right of cross-examination by the Student Conduct Committee.

5. The student or student organization must notify the Hearing Officer of any witnesses and/or evidence they wish to present, at least three business days prior to the hearing.

6. Pertinent records, exhibits and written statements may be accepted as evidence for consideration by a Student Conduct Committee at the discretion of the Hearing Officer.

7. All procedural questions are subject to the final decision of the Hearing Officer.

8. At the discretion of the Hearing Officer, the accused may have the privilege of facing the accuser.

9. There shall be a single verbatim record, such as a tape recording, of all hearings before a Student Conduct Committee. The record shall be the property of BC.

10. After the hearing, the Student Conduct Committee shall determine by majority vote if the student has violated the section(s) of the Student Code that the student is charged with violating.

11. The Student Conduct Committee's determination shall be made on the basis of whether it is more likely than not that the accused student violated the Student Code.

12. If the Student Conduct Committee determines that a violation(s) of the Student Code has occurred, they will vote on sanction(s) to recommend to the Vice President for Student Affairs. The recommended sanction(s) of the Student Conduct Committee may be more or less severe than those originally imposed by the chief student affairs officer.

13. The Vice President for Student Affairs, after receiving the recommendation of the Hearing Officer shall impose sanctions on the student or student organization. Sanctions shall be delivered to the student in writing.

14. Except in the case of a student charged with failing to obey the summons of a Student Conduct Committee or BC official, no student may be found to have violated the Student Code solely because the student failed to appear before a Student Conduct Committee. In all cases, the evidence in support of the charges shall be presented and considered.
15. A quorum for the Student Conduct hearing will be the Hearing Officer and three members of the Student Conduct Committee.

16. The decision of the Vice President for Student Affairs shall be final.

**ARTICLE V: INTERPRETATION AND REVISION**

1. Any question of interpretation regarding the Student Code shall be referred to the Vice President for Student Affairs or his or her designee for final determination.

2. The Student Code shall be reviewed periodically at the discretion of the Vice President for Student Affairs.

In addition to all Broward College and program policies, students are expected to abide by standards set forth by the American Society of Radiologic Technologists including the Code of Ethics. www.ASRT.org

**SEXUAL HARASSMENT**

Sexual harassment is considered unacceptable behavior and will not be tolerated by the program. Unwelcome sexual advances; requests for sexual favors; sexual demands; or other verbal, physical, or visual contact of a sexual nature constitute sexual harassment.

Realizing the sensitivity associated with problems of this nature, the College will make every effort to deal with complaints/charges in a confidential and appropriate manner. Conduct which falls into the definition of sexual harassment includes, but is not limited to:

- Unwelcome physical contact of a sexual nature (patting, pinching or unnecessary touching)
- Overt or implied threats against an individual to induce him/her to perform sexual favors or go engage in an unwelcome sexual relationship
- Verbal innuendos or jokes of a sexual nature, including graphic or degrading verbal comments about an individual and/or his/her appearance
- Use of sexually suggestive terms/gestures to describe a person’s body, clothing, etc.
- Posting or e-mailing sexually explicit or obscene materials or materials that imply or may be interpreted as implying information of a sexual nature.

The program follows the Broward College Sexual Misconduct Policy (6Hx2-5.39)

**SUBSTANCE ABUSE POLICY**

A student who is unable to perform clinical activities as assigned with reasonable skill and safety by reason of illness, or use of alcohol, drugs, narcotics, chemicals, or any other type material, or as a result of any mental or physical condition, shall be required to submit to a mental and/or physical examination. The physician and health care practitioner must possess expertise to diagnose the impairment and be approved by the department. Cost of the examination will be borne by the student. Use of the above mentioned substances is not tolerated while you are in the program and will result in the student being dismissed from the program. The program follows the Broward College Substance Abuse Policy (6Hx2-5.18)

**TARDINESS AND ATTENDANCE POLICIES**

The rigorous and complex nature of the lecture, clinical and laboratory portions of the curriculum demand that specific guidelines be set and adhered to regarding student tardiness and attendance. Appropriate student participation and attendance is required for all class sessions and lecture assignments. Should a student be unable to attend a particular class, the student will be responsible for obtaining information missed. Upper limits are set for tardiness/absenteeism for all classes and clinicals – both are considered equal when calculating a student’s attendance record.

According to Broward College Class Attendance Policy (6Hx2-4.18) there is no penalty for a student who is absent because of a religious holy day in his/her own faith, the student's serious illness, death in the immediate family or statutory government responsibilities.

According to Broward College Class Attendance Policy (6Hx2-4.18) excessive absences from any individual course, regardless of the reason, will result in withdrawal of the student from the course and/or necessitate that the student repeat the course. Fifteen percent of clinic educational time or 15% of class time missed in any course is considered excessive.
LEARNING STRATEGIES

Preparing for a health care career involves a different type of learning than traditional classroom education. This type of learning involves operation of the linear accelerator, simulator, applying learned examination procedures and protocols, and educating patients and/or caregivers.

Completion of the visual, aural, read/write, and kinesthetic (VARK) inventory should provide information on specific learning styles and how best to approach studying for academic success. VARK assessment can be found online at http://www.vark-learn.com/english/page.asp?p=questionnaire. In addition, students are encouraged to continuously assess their own abilities and developmental needs, set goals and plan learning experiences to meet personal and professional goals. This is accomplished throughout the program by competencies, examinations, evaluations and instructor feedback.

The courses in the program are integrated in such a way that it allows the student to apply progressively more complex theoretical knowledge to simulated patients in the laboratory setting and subsequently on actual patients/clients under the supervision of clinical supervisors. Strategies for continued success in the learning process include:

* Attendance and participation in all class, laboratory and clinical sessions
* Study/complete all assignments
* Ask questions and ask for help when needed
* Take advantage of all optional activities
* Acknowledge and value evaluations and instructor feedback
* Practice skills that need improving

ADVISEMENT AND COUNSELING SERVICES

The Program Manager and Clinical Coordinator of the program provide individual advisement on an appointment basis as well as on a walk-in basis as needed. Office hours, which indicate the availability of each the Program Manager and the Clinical Coordinator, are posted on their respective office doors and in each course syllabus. The Program Manager and Clinical Coordinator will serve as the student’s advisor for the length of the program.

In addition, advisement in this capacity serves to:

* assist students in identifying areas of strengths and weaknesses in order to achieve appropriate academic standards
* provide individual guidance and mentoring as needed
* identify addition educational and professional resources to augment learning experiences
* emphasize the value of student organizations, community advocacy and professional societies

Any student can request a conference with the Associate Dean provided the appropriate chain of command has been followed. The college also has full-time counselors on staff who is available for private consultation as needed to support students in resolving academic and personal conflicts.

CHAIN OF COMMAND

Students should be aware that there is a proper chain of command for addressing complaints, program rules, regulations, protocols, and procedures. Any problems in didactic and laboratory courses should be discussed with the faculty member before involving the program manager. Any problems that may arise at the clinical site should be discussed with your clinical instructor and clinical coordinator before involving the program manager.

GUIDELINES FOR ADVANCEMENT

Specific guidelines have been identified by the Program Manager and Clinical Coordinator which should be followed by each student in order to successfully advance through the program. Student success is predicated on attention to several key responsibilities as the program progresses toward successful completion of all requirements:
* Make every effort to attend all scheduled class and simulated laboratory sessions.
* Take responsibility to obtain any materials covered in a missed class.
* Be punctual.
* Ensure reliable access to a computer.
* Be prepared to spend a minimum of two (2) hours preparing for each class – online assignments, reading assignments, in-service development, etc.
* Review previously completed course content as it will assist in understanding subsequent content due to the cumulative nature of the program.
* Complete all assignments on time including the submission of requested documentation of certificate completion and Medical Health and Physical Examination form as well as any addition verifications of ability to meet Technical Performance Standards.
* Actively participate in all classes, simulated laboratories, open lab sessions, in online discussion forums, etc. as required.
* Must achieve all cognitive, affective and psychomotor objectives
* Initiate additional learning experiences including study groups and review sessions with instructors as deemed necessary
* Demonstrate competency in specified areas of practice through successful completion of practical examinations.
* Successfully achieve a grade of “C” or higher on all course examinations and clinical competencies.
* Adhere to the Code of Professional Behavior for the Health Sciences and The Code of Ethics for the Profession of Radiologic Technologists (ARRT), Scope of Practice and the Practice Standards for the Radiation Therapy Profession (ASRT).

**Typical Advancement**

In order to successfully complete all of the requirements for the Radiation Therapy program, students must fulfill all of the following requirements:

1. Complete all required general education courses within the Radiation Therapy Program curriculum, including all pre-requisites and co-requisites in a logical sequence as recommended by the program.
2. Complete all required RAT courses in the curriculum, including all pre-requisites and co-requisites in the sequence determined by the program.
3. Achieve a grade of “C” or above in all general education courses and required RAT courses and in all clinical practicums.
4. Demonstrate ongoing development of professional behaviors and competency in skills performed by an entry-level Radiation Therapist.
5. Demonstrate competent entry level development in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
6. Maintain an up-to-date Clinical Notebook as detailed in the clinical course syllabi.
7. Submit completed Medical History and Physical Examination form indicating satisfactory health status, as well as, any additional verifications of ability to meet Technical Performance Standards.
8. Maintain current certifications (CPR, AIDS, etc.) should expiration occur during the duration of the program.
9. Refrain from conduct that violates the Code of Professional Behaviors for the Health Sciences, the College’s Code of Student Conduct, and the Code of Ethics for the Profession of Radiation Therapy and/or leads to a major breach in safety, confidentiality, or legality.

**Progression Protocol**

In order to successfully progress through the Radiation Therapy Program students must achieve all cognitive, affective, and psychomotor learning objectives. This requires that a minimum 75% or a "S" Satisfactory grade be earned in all required radiation therapy didactic, clinical and laboratory courses. This requirement is in addition to maintaining an overall degree GPA of at least 2.0. All courses in the Radiation Therapy Program are sequential. Each course must therefore be passed with a minimum of 75% or Satisfactory “S” to progress to the next scheduled course.

In the event that any student is requested by an assigned clinic to leave that clinic, there is no guarantee that another clinic will be assigned. If a student is requested to leave for “cause”, then the Program Manager will
assess the individual situation and determine if the student will be allowed to continue in the program, primarily depending on the seriousness of the offense, but also the availability of another clinical site.

**UNABLE TO ADVANCE**

Any student whose advancement through the program is interrupted will have to request, in writing, that eligibility for readmission be evaluated. A student is considered unable to advance if the student:

1. Fails to complete all required general education courses within the Radiation Therapy curriculum, including all pre-requisites and co-requisites in a logical sequence as recommended by the program.
2. Fails to complete all required RAT courses in the curriculum, including all pre-requisites and co-requisites in the sequence determined by the program.
3. Does not achieve a grade of “C” or above in all general education courses and required didactic and clinical RAT courses.
4. Does not demonstrate ongoing development of professional behaviors and competency in skills performed by an entry-level Radiation Therapist.
5. Demonstrate competent entry level development in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
6. Does not submit completed Medical History and Physical Examination form indicating satisfactory health status, as well as, any additional verifications of ability to meet Technical Performance Standards.
7. Does not maintain current certifications (CPR, AIDS, etc.) should expiration occur during the duration of the program.
8. Participates in conduct that violates the Code of Professional Behaviors for the Health Sciences, the Broward College Code of Student Conduct, the Code of Ethics for the Profession of Radiation Therapy and/or leads to a major breach in safety, confidentiality, or legality.

**ACADEMIC STANDARDS**

Academic standards are those measures by which the faculty of the program determine a student’s quality of performance. They are composed of guidelines for advancement in the Program as well as of policies for grading, reinstatement and dismissal.

1. Students must achieve a minimum of "C" for the final grade in all courses that are required for completion of the degree. A grade of "D" or "F" may be given in any course, however, such a grade is not considered as having met the prerequisite standard for advancement to the next term of academic study nor will it permit continuation of enrollment in the Program.

2. Should a student receive a grade of "D" or "F" in a general education course required for the degree, the student will need to retake the course in order to meet graduation requirements of achieving a “C” or above in all courses in the curriculum. If the course is required as a pre-requisite to a RAT course, the student will be unable to progress in the program.

3. Academic achievement during any given term (measured by the student’s overall grade point average - GPA) must be a minimum of 2.0 on a scale of 0 to 4.0. Students falling below the 2.0 GPA will be dismissed from the Program.

4. The student must complete all practical examinations as detailed in the laboratory course according to the standards which define passing performance.

5. The student must meet minimal competency standards as detailed in the clinical course syllabi in order to successfully pass any clinical practicum.

6. In RAT courses, grades are determined on a point scale. That is, a range of points will determine what the assigned grade will be. Grades are determined in each course using the following scale:
Radiation Therapy Courses – Didactic and Clinical

A = 93 - 100% (Please note that NO extra credit opportunities will be given for students who earn below the required passing grade.
B = 84 - 92%
C = 75 - 83%
D = 67 - 74%
F = 0 - 66%

Retention Plan

All students enrolled in the Radiation Therapy Program at Broward College will be afforded every reasonable opportunity to succeed with their academic coursework. Faculty of the Program have the obligation to deliver a curriculum that meets the profession's standards of accreditation while challenging and preparing students for being successful, competent, and ethical Radiation Therapist. The Program has a Retention Plan involving remediation, through a plan of action, which covers all lecture and laboratory courses. Remediation refers to practical, easy-to-implement activities and strategies designed to correct deficiencies that a student may present with in terms of their academic knowledge or skills performance. The Retention Plan is designed to provide students the opportunity to master content areas in which they are having difficulty as well as to provide a means by which the overall course grade may be improved.

A comprehensive Retention Plan involves identification of particular content areas in which the student requires remediation, working with the student to assure they are aware of their deficiencies, providing suggestions or activities to enhance deficiencies, and final assessment that subsequent learning has occurred. It is each student’s individual responsibility to take the initiative to participate in the activities as detailed. The instructor for the specific RAT course has the final decision on any plan of action designed for a particular student.

Throughout the Program, students will be made aware of the requirements for each course, via a comprehensive syllabus and/or Course Schedule. The objectives for each course, and the Program as a whole, will be shared with all students in order to aid in their progress and success. All students must take responsibility for their learning while enrolled in the Program. This includes recognizing areas of weakness or deficiency and taking the initiative to address those areas. The faculty will assist in discussing and providing strategies for success in those areas identified.

Didactic Courses: A grade of 75% or better is necessary to successfully pass each course. It is the student’s individual responsibility to review their scores and track their progress in the course in accordance with the evaluation criteria established in the syllabus which is posted on the e-learning site and reviewed by the course instructor at the initial class session. For all RAT courses a grade below 75% is considered failing. In the event that a student receives a score less than 75%, he/she is encouraged make arrangements to meet with the instructor to determine a plan of action and strategies for improvement to understand the deficiency and ultimately master the content area. Suggested strategies for improvement include, but are not limited to:

1. Individualized review sessions on specific content areas
2. Additional reading, related to the content areas identified as deficient
3. Appropriate activities to enrich the content such as related assignments
4. Counseling concerning appropriate study habits and learning resources
5. Peer tutoring or study groups

The Program expectation is that students will dedicate additional study time to increase their exposure and understanding of the content areas. It is the student’s responsibility to take the initiative to arrange additional appointments with the instructor or to e-mail the instructor if necessary to further clarify course content, which may be difficult to comprehend.

To assess that remediation on content has been successful and depending upon the specific RAT course, the Program utilizes testing strategies such as: Comprehensive interval quizzes or exams as well as Comprehensive Midterm and Final Examinations.
WITHDRAWAL

Students who fail a Radiation Therapy course with a grade lower than a 75% or withdraw for any reason will be required to exit from the program and repeat the course prior to advancing. Students who fail a course or withdraw are subject to the program's Re-Entry Protocol. An Exit Interview will be performed upon the student declaration of withdrawal.

DISMISSAL

The program reserves the right to discontinue a student's enrollment at any time during the program if, in the judgment of the faculty, the student does not possess the professional behavior necessary for success as a Radiation Therapist. Additionally, the following are conditions under which dismissal may occur:

- Failure to maintain the required 2.0 GPA.
- Failure in a degree-required course even if the student has a GPA of 2.0 or better.
- Failure to demonstrate appropriate progression in developing professional behaviors (the Code of Professional Behaviors for the Health Sciences, the Broward College Code of Student Conduct, and the Code of Ethics for the Profession of Radiation Therapy)
- Breach of academic honesty
- Breach of confidentiality - HIPAA
- Repeated tardiness and/or frequent absences from class, laboratory or clinic.
- Failure to comply with requirements and standards as detailed in the course Syllabi and/or Program Manual.
- A second removal, for any reason, from a second clinical site.
- Failure to follow safe radiation protection practices (ALARA)

RE-ENTRY PROTOCOL

Requests for re-entry to the Broward College Radiation Therapy Program must be made in writing one semester prior to the term in which the student is to re-enter. The student must contact the Program Manager via e-mail to request re-entry to the program. All re-entries to the program must take place within 12 months after dropping out. Students who have been out of the program for more than 12 months will be required to start the program over. Re-entry to the program is not guaranteed and is based on academic eligibility as well as space availability in the clinical sites at the time of re-entry.

Students who re-enter will be required to repeat all of the program admission requirements, such as criminal background check, drug screen, health examination, and pre-health science core courses if expired. It is strongly recommended that the student audits the semester prior to returning in order to ensure success in the program. During a clinical audit, the student will need to repeat all competencies that were completed prior to leaving the program. Students dismissed from the program for inappropriate conduct may not be eligible to return. Any student administratively withdrawn and/or dismissed from the Program is not eligible for re-entry.

Students who are accepted into the Radiation Therapy program will be given two attempts to complete the program. Admittance into the program is considered the first attempt and re-entry is considered the second attempt. Students who are unsuccessful in the second attempt will be withdrawn from the program and ineligible to return.

Any student who has failed to progress through the entire curriculum - despite the two attempts permitted in order to complete the program successfully - will be referred to an Academic Advisor to assist in exploring other educational and career options.

UPDATING STUDENT INFORMATION

It is the student’s responsibility to notify the program, in writing, of any changes in personal status so the student data base may be kept current. Such changes include changes in name, address, telephone, e-mail, etc. In addition to notifying the program, students are required to update their personal information with Broward College - completed through the Student Online System on the College’s homepage.
MATRICULATION

Students completing general education coursework toward the Radiation Therapy degree at any other institution are required to submit an official transcript to Broward College in order for the courses to be considered toward the Radiation Therapy degree. Refer to the current College catalog for specific information on transferring credits earned at other institutions.

CATALOG OF ENTRY

According to Broward College policy, a Health Science Student may graduate under the following catalogs:

* Catalog in effect - when he/she entered BC if enrollment has been continuous.
* Catalog in effect - when he/she entered the program if enrollment is continuous. (This means that the student has taken courses each major term since his/her initial registration at the College)
* Catalog in effect - the year he/she will graduate.

If attendance has been broken, students must meet the requirements of the catalog in effect when they re-enrolled, provided attendance has been consecutive, or the one in effect at the time of graduation. The student must meet with a College advisor to determine the catalog of entry.

Students will need to identify the Catalog of Entry when completing the Candidate for Graduation form prior to graduation.

A.S. DEGREE - COURSE OF STUDY

<table>
<thead>
<tr>
<th>Courses in Program</th>
<th>FIRST YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number and Title</td>
<td>Credits</td>
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<tr>
<td><strong>Pre-requisite Courses</strong></td>
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<tr>
<td>ENC 1101 Composition I</td>
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<tr>
<td>BSC 2085 Anatomy and Physiology I</td>
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<td>BSC 2085L Anatomy and Physiology Lab I</td>
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<tr>
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<tr>
<td>CGS 1060C Computer and Internet Literacy</td>
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<td><strong>FALL SEMESTER - First semester of curriculum</strong></td>
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<tr>
<td>RAT 1614 Introduction to Radiation Therapy Physics</td>
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</tr>
<tr>
<td>RAT 1210 Introduction to Radiation Therapy Anatomy</td>
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<tr>
<td>GE Course General Education Humanities</td>
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<tr>
<td>BSC 2086 Anatomy and Physiology II</td>
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<tr>
<td>RAT 1112 Radiation Therapy Medical Imaging</td>
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<td>RAT 1212 Radiation Therapy Imaging Anatomy</td>
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<tr>
<td>RAT 1123 Patient Care and Ethics</td>
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<tr>
<td>SPC 1024 Introduction to Speech Communication OR</td>
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<tr>
<td>SPC 1608 Public Speaking</td>
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<tr>
<td>GE Course General Education Social &amp; Behavioral Science</td>
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<td><strong>SUMMER SEMESTER- Third semester of curriculum</strong></td>
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<tr>
<td>RAT 1001 Introduction to Radiation Therapy</td>
<td>1</td>
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<tr>
<td>RAT 1002 Introduction to Radiation Therapy Clinical</td>
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<tr>
<td>RAT 1002L Introduction to Radiation Therapy Clinical Lab</td>
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<tr>
<td>RAT 1515 Radiation Pharmacology</td>
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<tr>
<td>RAT 1804 Clinical Education I</td>
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### SECOND YEAR

**FALL SEMESTER – Fourth semester of curriculum**

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<td>Radiation Physics I</td>
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<td>RAT 2023</td>
<td>Radiation Oncology I</td>
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<td>RAT 2243</td>
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<tr>
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**WINTER SEMESTER – Fifth semester of curriculum**

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<tr>
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<td>Radiation Physics II</td>
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<tr>
<td>RAT 2024</td>
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<tr>
<td>RAT 2243</td>
<td>Radiobiology</td>
<td>2</td>
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<tr>
<td>RAT 2657</td>
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<tr>
<td>RAT 2041</td>
<td>Radiation Oncology Ethics</td>
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<tr>
<td>RAT 2824</td>
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**SUMMER SEMESTER – Sixth semester of curriculum**

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<tr>
<td>RAT 2834</td>
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**Total Credits** 77

### TECHNICAL CERTIFICATE - COURSE OF STUDY

**Courses in Program** 15 Months

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<tr>
<td>RAT 1001</td>
<td>Introduction to Radiation Therapy</td>
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<tr>
<td>RAT 1002</td>
<td>Introduction to Radiation Therapy Clinical</td>
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<td>Radiation Physics I</td>
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<td>Radiation Oncology I</td>
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<tr>
<td>RAT 2243</td>
<td>Radiation Therapy Sectional Anatomy</td>
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<td>RAT 2022</td>
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<tr>
<td><strong>Total Credits</strong></td>
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</table>
RADIATION THERAPY - COURSE DESCRIPTIONS

RAT 1001: Introduction to Radiation Therapy
This course will provide the students with an introduction to the radiation therapy program and the role and responsibilities of a student radiation therapist. This course will also define the different personnel required for a radiation therapy department to function, and define the structure and organization of hospitals. This course will also provide an introduction into cancer and cancer management with an overview of the psychological, sociological and economical aspects of cancer.

RAT 1002: Introduction to Radiation Therapy Clinical
A course designed to provide knowledge and instruction in the application of radiation therapy procedures with a detailed study of instrumentation, radiation therapy equipment, patient charting and radiation procedures during the early phases of patient contact. This course will also cover radiation safety, treatment tolerance doses of critical structures, treatment procedures, basic patient positioning, and operation of the equipment and patient accessories.

RAT 1002L: Introduction to Radiation Therapy Clinical
A course designed to provide knowledge and hands-on instruction in the application of radiation therapy procedures with a detailed study of instrumentation. This lab corresponds to the information and objectives of RAT 1002. Specific radiation therapy terminology, basic procedures, specific patient positioning and accessories will also be covered.

RAT 1112: Radiation Therapy Medical Imaging
An introductory study to radiographic processes. Included will be the processes behind computed tomography, magnetic resonance imaging, Radiation Therapy, positron emitting tomography, and ultrasound as it pertains to simulation, detection, and diagnosis of cancer.

RAT 1123: Patient Care and Ethics
This course is designed to give an incoming student an overview of patient care and ethics. Topics that will be covered include communication, patient safety, patient transfers, immobilization of patient and body parts, infection control, vital signs, caring for patient who have special needs, pharmacology, drug administration, case history, universal precautions, isolation techniques and medical legal issues in radiation therapy.

RAT 1210: Introduction to Radiation Therapy Anatomy
This course is designed to present anatomy and its importance to the radiation therapist. A survey of the structure of human body as it pertains to radiation therapy will consider the following: the cell, tissues, glands, skeletal system, the spine, pelvis, lower limb, abdomen, thorax, upper limb, the neck, and the head.

RAT 1212: Radiation Therapy Imaging Anatomy
A study of radiographic human anatomy as it pertains to identifying organs at risk and treatment considerations for radiation therapy. Students will study the anatomy of the human skeleton and organ systems in both two dimensional and three dimensional views.

RAT 1515: Radiation Pharmacology
This course is designed to discuss the pharmacology concepts as it pertains to imaging practices of the radiation therapist. This course will introduce to the students essential practices and guidelines of pharmaceutical administration essential for imaging and patient diagnosis. It will also discuss medical oncology drugs and how they are metabolized by the systems.

RAT 1614: Introduction to Radiation Physics
An introductory study of radiation therapy physics to include mathematical principles & measurement, atomic structure, electromagnetic radiation, magnetism, electrostatics, electrodynamics, electromagnetism, radiographic circuits, the x-ray tube, x-ray production & interactions. Admission to program required.

RAT 2021: Principles of Radiation Therapy I
Content is designed to provide an overview of cancer and the specialty of radiation therapy. The historic and current aspects of cancer treatment will be covered. The roles and responsibilities of the radiation therapist will be discussed. In addition, treatment prescription, techniques and delivery will be covered.
RAT 2022: Principles of Radiation Therapy II
A continuation of the fundamentals of technologic applications in simulation and patient treatment.

RAT 2023: Radiation Oncology I
A study of the fundamentals of clinical radiation oncology stressing the following: etiology, epidemiology, histopathology, symptoms, diagnosis, staging, prognosis, treatment set up and guidelines, and the therapeutic aim of malignant conditions. Program admission required.

RAT 2024: Radiation Oncology II
A study of the fundamentals of clinical radiation oncology stressing the following: etiology, epidemiology, histopathology, symptoms, diagnosis, staging, prognosis, treatment set up and guidelines, and the therapeutic aim of malignant conditions.

RAT 2040: Radiation Oncology Health Care Law
The course is a description the major legal structure and function of the United States health care system, as well as the principles and policies of that health care system. This course also provides the legal principles and rationale used for decisions made upon the health care industry and how it pertains to radiation oncology.

RAT 2041: Radiation Therapy Ethics
This course is designed to discuss ethical thinking in regards to health care. This course will introduce to the student essential vocabulary and thought process that will enable them to participate, evaluate, and understand ethical decision making.

RAT 2241: Radiobiology
A study of the sequence of events following the absorption of energy from ionizing radiation. Factors influencing radiation effects, tissue sensitivity, tolerance, and clinical applications are considered.

RAT 2243: Radiation Oncology Sectional Anatomy
This course is designed to present sectional anatomy and its importance to radiation therapist in the Radiation Therapy Field. This course will include 3-D imaging identification of anatomical structures in various imaging methods and planes. Location of internal organs and critical structures by topographical anatomy will also be included. The pathophysiology of normal tissues as well as malignant tissues will also be discussed and visualized in 3-D Imaging. An emphasis on etiological considerations, neoplasia, and associated diseases in the radiation therapy patient will also be presented.

RAT 2617: Advance Radiation Physics I
The fundamentals of x-ray, gamma, and corpuscular radiation as applied to radiation therapy. Teletherapy units and nuclear reactors are also discussed.

RAT2618: Radiation Physics II
Advanced physics of ionizing radiation including measurements, dosages, absorption, isodose curves, filters, radioactive materials treatment planning, properties of radionuclides, radiation safety and health physics.

RAT2619: Dosimetry & Computer Treatment Planning
This course will introduce the students to the advanced physics and math calculations they will be required to perform as radiation Therapist. The courses will also describe the physical and geometric factors affecting the applied beam energy and how to correct for these factors. The course will also describe how to modify an applied beam to avoid critical structures while delivering the required dose of radiation. The course will also deal with radioisotopes, how they are utilized to treat cancer patients and their specific energies and decay schemes.

RAT2657: Quality Assurance Quality Management and Quality
Content is designed to focus on the components of quality improvement (QI) programs in radiation oncology. Topics will include quality control and assurance checks for the clinical aspects of patient care, medical records, treatment delivery and localization equipment and treatment planning equipment. The role of the various radiation therapy team members in continuous quality improvement will be discussed as well as the legal and regulatory implications for maintaining appropriate quality care.
PROGRAM PROTOCOLS AND PROCEDURES

CELL PHONES AND PORTABLE ELECTRONICS

The College recognizes the growing trend regarding student possession of cellular phones with video, camera, or voice recording capabilities. In support of each individual’s reasonable expectation of privacy, copyright and intellectual property laws, the use of these cellular phone features by students must be in conjunction with express consent. Students are expressly forbidden to video, use camera or voice recordings without the express consent of the subject(s) such as other students, instructors or guest speakers being photographed or recorded.

Classroom and Laboratory Usage: It is expected that students will not place or receive cell phone calls while in the classroom, even if it is before or after class. To maintain an academic environment, utilizing such devices should occur outside of the classroom. Cell phones and other electronic devices should be turned off or placed in silent mode while class is in session. During exams or any other graded activities, all electronic devices are to be turned off and stowed out of sight.

Clinical Usage: Students are not to receive or make personal phone calls or text during scheduled clinical hours. Cell phones are to be turned off at all times or set to vibrate. Students wishing to make or receive telephone calls may do so on their meal break in those areas of the hospital or medical facility approved for such use. Phones or other electronic devices are not allowed in the imaging areas at any times. If you have an emergency; please check with your clinical instructor at the site regarding the sites’ protocols.

INSURANCE

Health & Accident Insurance: Any student who is assigned to a clinical facility may be exposed to environmental hazards and infectious diseases. It is strongly recommended that each student carry health insurance to avoid any untoward expenses related to medical care. Health insurance is not offered by the College. Limited accident insurance is provided for Health Science students at the time of registration in clinical courses each semester for a nominal fee. This insurance provides coverage for injuries sustained while participating in Health Science classes, labs and/or clinical training. Failure to carry this insurance or pay the fee for accident coverage will result in immediate suspension of the student from clinical courses. The student is required to contact the Program Manager immediately in the case of an accident.

Note: This coverage is limited to accidents/injuries which occur during training. It is NOT intended to replace medical insurance. Students are therefore, strongly advised to obtain or maintain health insurance coverage for themselves.

Liability Insurance: Professional liability insurance is required of all Health Science students each term that they are enrolled in a clinical course. The fee for liability insurance coverage is non-refundable and is charged each semester when the student registers for the first clinical course during an academic year.

EMERGENCY/HEALTH SERVICES

Medical and hospital facilities are not provided on Broward College campus. In case of accident or illness, students should follow the safety procedures as detailed by their instructor/clinical supervisor, in the Program Manual and the Laboratory “Focus on Safety” Manual. Emergencies that occur at a clinical site are treated by the facilities in accordance with the affiliation agreement and the policies/procedures of the facility itself. Emergency Procedures are reviewed at the start of each semester. Each laboratory has a First Aid Kit for attending to minor injuries. Also, a CPR kit and an Automatic External Defibrillator (AED) are available should an event occur necessitating their use.

INCIDENT/ACCIDENT/EXPOSURE REPORTS

All students are expected to perform techniques in a safe, ethical and legal manner when they are being performed, consistent with how they have been instructed. This applies to all activity in the lab. Any
procedure that a student feels unprepared to provide, or deems contraindicated, should be discussed with his/her laboratory instructor prior to implementation.

If an injury occurs while the student is on campus, the following steps should be followed:

1. If the injury is of a serious nature, seek appropriate emergency care by calling 911. (If a College phone line is used, the call will be 9-911 to secure an outside line). If the injury does not warrant paramedic attention, appropriate first aid measures should be taken. If follow-up medical care is considered, the student is held responsible for all costs incurred.
2. At the time of the incident/accident the College Security Department must be contacted to arrive at the scene to complete the College Accident Report.
3. The student involved as well as any College personnel that were involved or witness to the incident must complete a Program Incident Report.
4. The completed program form should be submitted to the Program Manager within two (2) working days of the incident/accident.
5. In the event that exposure to blood or body fluids occurs, refer to the procedure under Exposure to Blood and Body Fluids Report.

The Incident Report will be permanently placed in the student’s administrative file. The Associate Dean will also submit a copy of the report to the Dean’s office for documentation should the student make a claim against the College. It is the responsibility of the student involved to complete any necessary paperwork, submit medical bills, follow up with Dean’s office, and any related medical claims initiated through the college insurance plan.

**PREGNANCY POLICY**

The effect of radiation on an embryo/fetus is dose related. The National Council on Radiation Protection and Measurement (NCRP) recommends that the dose to the embryo/fetus from occupational exposure not exceed 500 millirems (5mSv) over the entire pregnancy. For more information concerning dose limits and the biological effects of exposure, students should visit the NCRP Web site.

Students who know or suspect they are pregnant are requested to notify the Program Manager so that necessary safety precautions can be taken and counseling concerning the possible biological effects of radiation exposure to an unborn fetus be initiated. Disclosure of pregnancy is voluntary and students who are pregnant will not be required to withdrawn from the program. A student will be considered *pregnant* only upon voluntary written declaration by the student. To declare pregnancy students will need to sign a Pregnancy Declaration form and submit it to the Program Manager. The form is located on the BC Radiation therapy Clinic Homepage under the "Student Forms" icon.

*Students who are declared pregnant will have the following options:*

1. **Voluntarily withdraw from the program in good standing.** Upon completion of the pregnancy and postpartum period the student may request to return to the program at the beginning of the semester in which they withdrew.

2. **Withdraw from the clinical education component.** Students who declare pregnancy within a semester may continue in their didactic courses while withdrawing from the clinical course.

3. **Continuation in the program without modifications.** Students who wish to remain in the program without modifications to their clinical assignments may do so. This would invoke the same occupational exposure limits as other radiation workers. A second radiation dosimeter will be provided to the student that must be worn at the waist during all clinical rotations. When doing fluoroscopic procedures the fetal dosimeter is to be worn under the lead apron.

Students retain the option of modifying the clinical education component or program withdrawal (i.e., changing to options 1 or 2) at any time upon written notice to the Program Manager.
Upon disclosure of pregnancy the student should do the following:

1. Meet with the Program Manager to review their options.
2. Discuss the possible biological effects of radiation exposure to an unborn fetus.
3. Review all radiation protection practices and procedures.
4. Meet with the Clinical Instructor to discuss possible modification to hospital rotations.
5. Notify the clinical site Department Manager/Director of the declaration.
6. Practice appropriate radiation protection to include wearing of a fetal dosimeter.

Please note: Although pregnant students have the option of remaining in the Radiation Therapy Program the ultimate decision on whether or not you may continue should be made in consultation with your obstetrician. Documentation from an obstetrician may be required as to the student's ability to continue in the clinical courses. Pregnant students who remain in clinical courses must continue to satisfy the attendance requirements and will be expected to perform all radiation therapy procedures except for those where modification has been requested.

Students who withdraw from the program due to pregnancy are guaranteed reentry at the point where they withdrew or on a date mutually agreed upon by the student and Program Manager. If the student returns to the program it must occur no later than one year following the birth.

PARTICIPATION IN CLASS AND SIMULATED LABS

Class and Lab: Students may experience challenges such as medical, psychological or physical difficulties which could negatively impact participation in curricular activities.

Students are expected to participate in all class/laboratory activities serving the role of demonstrator and/or simulated patient. All students are required to complete the Syllabus Acknowledgement Form/Assessment at the start of every semester. In addition, students will sign the Patient Set-Up Volunteer Form acknowledging that the patient role is voluntary. This serves to release parties listed from any liability that may arise as a result of injuries incurred while participating in class/laboratory activities.

Lab only: As active participation in hands-on skills and critical thinking/problem-solving discussions are imperative to facilitate learning of the laboratory course content, a component of the student’s grade in laboratory courses is based on participation. It is the program's expectation that the student will come prepared to lab with all written assignments complete, remain focused and engaged during lab activities as well as play a role in maintaining the lab environment.

REACTING TO EMERGENCIES

A “Focus on Safety” manual is available in the laboratory which serves as a quick reference regarding how to react in a variety of different emergency situations. Safety procedures will be reviewed during the first laboratory class session. All faculty, staff and students are encouraged to report criminal acts and safety hazards or occurrences to the Campus Security Department (BC). In the event of an immediate threat or danger, the appropriate police/fire/medical agency should be contacted by dialing 911.

In the event of a fire: Locations of fire alarms in the area adjacent to each of the laboratories will be pointed out by the instructor at the start of each semester. To sound an alarm, the student should utilize the appropriate fire alarm pull stations. Students should evacuate the building according to the Fire Evacuation Route posted in each laboratory and proceed to the designated assembly area as indicated by the instructor. Students are not to return to the evacuated building until specifically instructed to do so by a College official.

In the event of serious injury/illness: Students should notify the Campus Security Department (BC) at 954-201-HELP (4357). Students should standby to direct emergency personnel to the victim and to answer questions when help arrives.

In the event of a bomb threat: If the threat is phoned in, the student should attempt to keep the caller on the line as long as possible by asking pertinent questions (when will it explode, where is it located, time of call,
note gender/accent/background noises, etc.). The student should then ask someone to either notify the Campus Security Department (BC) at 954-201-HELP (4357) or make contact when the call has ended.

**Suspicious Object:** If a suspicious object (letter, package, etc.) is observed, the student should not handle the object. All students should evacuate the immediate area and post a 'guard' to ensure no one inadvertently enters the area and/or handles the object. The student should notify the Campus Security Department (BC) at 954-201-HELP (4357) and standby for evacuation instructions.

**Violent or Criminal Behavior:** Should a student witness any breach of peace or other violations of safety including threats, intimidation, violence, assault, sexual battery or other disruptive behavior, the student should contact the Campus Security Department (BC) at 954-201-HELP (4357). Information reported should include the nature and location of the incident, description of the persona and or property involved.

**Tropical Storm/Hurricane:** In the event of a tropical storm/hurricane, students will be notified of cancellations and closures by BC Alert. In the event of Broward closure, all students will not attend classes that day regardless of the site they are geographically located at. Missed content will be incorporated into subsequent class sessions. The Program Manager will communicate via BC email or Learning Management System, what changes (if any) the event will have on the course schedules.

**SAFETY REGULATIONS IN CLASSROOM/LAB**

It is imperative that good safety habits develop from the first day of classes! Safety regulations regarding the use of all equipment, radiation safety procedures, infection control procedures, body mechanics, and fire/emergency procedures are reviewed at the first class session. These standards must be adhered to in order for a safe environment to be maintained in the class, in the lab and during clinical practicums.

**EQUIPMENT:**

Students are instructed to inform the faculty of any hazard such as water on the floor, frayed electrical wires, accidental damage to equipment during use, etc. Most of the equipment in the Radiation Therapy laboratory requires specific instruction in its use and can actually be dangerous if misused.

Any modality or piece of non-electrical equipment that fails to meet inspection standards for safe use will be marked, via red sticker and immediately removed from the laboratory area.

All lab equipment must be kept clean and treated with respect:

- Students are to practice only those imaging techniques presented in lecture and/or demonstrated in the laboratory setting.
- Inspect the outlet for any defect before plugging a piece of equipment in. Always unplug equipment by the plug, not the cord.
- Clean and put away all models, videos and equipment after each use or lab period.
- Remember to adhere to universal precautions and ALARA.
- Restore the lab to its original state of “neat and clean” after each session. Clean up all trash, and put away all papers, books, charts, linens, etc.

Students may not use any of the equipment in the laboratory to treat personal injuries or conditions. Certain medications may potentially alter the student's ability to function safely or have an untoward effect on the student's level of alertness and may pose a safety hazard for the student and others. The student should notify the laboratory instructor if he/she is currently taking any over-the-counter or prescribed medications.

**Infection Control:** Students are required to wash their hands at the start of laboratory and between sessions of working with different students. Disposable gloves should be worn especially if there are unhealed skin lesions on a student's hands or any lesions on the skin of the simulated patient.

**Body Mechanics:** In every instance when an instructor is demonstrating a specific skill or technique, emphasis will be placed on the maintenance of proper body mechanics. During any laboratory or classroom activity, instructors will remind students of the importance of proper body mechanics when necessary.
**Fire/Emergency Procedures:** The fire/emergency procedures are written and posted in the laboratory. The specifics are reviewed at the start of the clinical practicum. Students should familiarize themselves with the correct procedure to follow in case of an emergency and building evacuation.

**Hazmat Training:** Is provided to students annually through the Learning Management System. The specifics are reviewed at the start of the clinical practicum. Students should familiarize themselves with the correct procedure to follow in case of an emergency.

**ALARA Training:** Is provided to students annually through the Learning Management System. The specifics are reviewed at the start of the clinical practicum. Students should familiarize themselves with the correct procedure to follow in case of an emergency.

**Other:** In the event that a student is pregnant during the curriculum (refer to Program Pregnancy Policy), she should make the condition known to the faculty as soon as possible. Safe participation in any aspect of the curriculum – particularly during clinical practicums – may be affected and may necessitate alternative accommodations which may include withdrawal from the program with reinstatement upon a change in physical status.

**FOOD AND DRINK REGULATION**

Food and drinks are not permitted in the classroom or lab facilities unless approved by the Instructor.

**SMOKING POLICY**

The College has adopted a “no smoking” policy in accordance with the Florida Clean Indoor Air Act, and evidence that indicates that passive smoking, i.e., involuntary inhalation of pollutants in the air produced by the smoking of others, is potentially harmful to nonsmokers in the closed environment of our buildings.

**HEALTH/MEDICAL INFORMATION REQUIREMENTS**

As part of the admissions process, students are required to complete an initial Medical History and Physical Examination Form, which details the student’s current health status, past medical history, and current immunization verification. In addition to information about the student’s general health, this form provides verification that the student is able to carry out the tasks required for his/her chosen career such as standing for long periods, manual dexterity, and motor skills.

The student must submit a complete Medical History and Physical Examination Form to the Program as part of the criteria for acceptance into the program. This form serves as documentation of their current health status. The Medical History and Physical Examination form must be completed by all students entering Center for Health Science Education programs. Students are responsible for the cost of the physical examination and any required immunizations. Students may see a doctor (MD or DO), a nurse practitioner (ARNP), or a physician assistant (PA) for the physical examination. Medical History and Physical Examinations performed by chiropractors will not be accepted.

Students must have a blood test called a titer, which indicates current immunization status or receive the indicated vaccinations:

- **A Positive Titer** Test indicates that the student has either had the disease or has been vaccinated against it. In either case, the student has immunity to that disease.
- **A Negative Titer** Test indicates that the student does not have immunity to the disease and will need to be immunized.

Vaccinations/Immunities are required. In order to confirm immunity, students are required to have a positive titer result after receiving the vaccination.
Important: All results of laboratory tests and immunizations should be attached to the Medical History and Physical Examination form. Vaccinations, as detailed on the form, include:

- Tetanus/Diphtheria
- Varicella – Chickenpox
- Rubella – German Measles
- Rubeola – Measles
- Hepatitis B Series
- PPD/Tuberculosis
- Annual Flu Shot

Failure to submit the original form - complete with documentation and required signatures will prevent progressing in the semester which may result in administrative withdrawal from the program. Falsification on the required forms will result in dismissal from the program as it would be considered a breach of academic honesty. Students should make copies of all form and certificates for their own records prior to submission to the instructor.

It will be necessary for the student to complete a Medical History and Physical Examination Update Form upon the start of the second year in the program. Additional details regarding the Health/Medical Information Requirements for progression into the clinical phase of the curriculum are detailed in the Clinical Guidelines section of this Manual.

CERTIFICATIONS

During the first semester of the program students will be responsible for providing evidence of current certification in:

- Cardiopulmonary Resuscitation (CPR): The CPR certification is valid for two (2) years.
- ARRT Certification (Technical Certificate students)

All certifications must remain current for the duration of the program. In addition, all certificates must be current to graduate and sit for the ARRT national registry. Students who have expired certificates will not be allowed to attend clinical rotations until they are updated and on file in the Program Manager’s office.

DRESS CODE

Since the program is committed to the development of professional behaviors, appropriate dress which reflects the standards observed in the medical professions is required.

Classroom Attire: Proper classroom attire consists of traditional casual clothing (jeans, slacks, capris, shorts, shirts, blouses, T-shirts without slogans, etc.) and footwear that would be considered safe in a work area such as sneakers. Revealing and tight fitting clothing as well as hats and sunglasses are not considered appropriate attire.

Cologne, cosmetics, hair color and styles and jewelry should be conservative. Visible body piercings such as eyebrow and tongue rings are not allowed. Nails should be short to allow participation in hands-on activities. Artificial nails are not permitted. Natural nails must be trimmed to be level with the skin. Students are expected to maintain good personal hygiene.

ENFORCEMENT OF DRESS CODE

Students who do not comply with the classroom or lab dress code will be asked to leave the class or the lab session and an absence for the session will be recorded. The lost time will need to be made up in accordance with the class and/or lab attendance policies.

USE OF LAB OUTSIDE OF REGULARLY SCHEDULED SESSIONS

Students are encouraged to use the laboratory equipment and facilities to practice their skills in non-class times. Laboratory facilities may be available for independent study on dates and at times outside of regularly
scheduled sessions, an appointment with the lab instructor must be made in advance. Students are not permitted to practice in the lab without on-site supervision from the instructors.

Laboratory reference materials, equipment and/or supplies will not be removed from the lab without prior faculty approval. No unauthorized visitors are permitted in the Radiation Therapy Lab which includes persons not formally registered in the course.

SIGNING-OUT TEXTS, VIDEOS, JOURNALS, OR EQUIPMENT

To support self-directed study and to encourage independent exploration in various content areas, students are persuaded to utilize learning materials that are part of the Intradepartmental Library of the program as well as items that are stored in the Radiation Therapy lab. A list of these learning materials are posted within each course on the Learning Management System.

STUDENT ID/ SMART CARD

Students will be required to take photo IDs on Orientation day while on the North Campus of Broward College. This ID is required as part of the clinical uniform to identify the individual as a BC Student.

TEXTBOOK PURCHASES

Information regarding textbook purchases for each semester is available either on the Learning Management site for the specific course or in the individual course syllabi. Textbooks for all semesters will be available for purchase at the Barnes and Noble Booksellers, Inc. @ Broward College.
http://www.broward.edu/studentresources/bookstore/Pages/default.aspx

TELEPHONE USE AND AVAILABILITY

Laboratory, classroom and office phones are not to be used for personal calls. The administrative assistants located in the front office of the Health Science Building may receive emergency calls and take messages for students.

IN-CLASS EXAMINATIONS

Online and written examinations will occur during regularly scheduled class sessions. During all in-class examinations, the instructor will serve as the proctor.

CLINICAL EDUCATION MANUAL

Prior to attending the first clinical practicum (RAT 1804), each student will have access to the electronic copy of the Clinical Education Manual in the Learning Management System. The Manual has very specific information related to the clinical education component of the program. An overview of clinically-related topics in provided here.

OVERVIEW OF CLINICAL EDUCATION COMPONENT

The program affiliates with clinical facilities that are located throughout the geographical areas served by Broward College, which includes Martin, Palm Beach, Broward and Dade Counties. Students are responsible for transportation to and from the clinical site to which they are assigned. Also, any cost involved in transportation and other associated expenses while attending the clinical practicum, are the responsibility of the student.

A student does not have a choice of clinical assignments. Clinical practicum sites are assigned by the Program Manager and the Clinical Coordinator. Each student must sign a statement confirming his/her understanding of this procedure (Refer to Appendix for Agreement for Practicum Site Placement Form).
Minimum clinical time obligations are as follows:

- RAT 1804 - 16 hours/week for a 12 week term
- RAT 2814 - 24 hours/week for a 16 week term
- RAT 2824 - 24 hours/week for a 16 week term
- RAT 2834 - 32 hours/week for a 12 week term

Student responsibilities will be detailed in the Clinical Education Manual that each student will obtain prior to attending the clinical practicum phase of the program.

Practicums are graded on a point system - to successfully pass, the student must meet the minimum performance rating for all observations, competencies, and evaluations completed by the Clinical Instructor and Clinical Supervisor. All criteria for grading for the practicum is outlined in the Clinical Education Manual.

**CLINICAL PRACTICUM COURSE DESCRIPTIONS**

**RAT 1804 CLINICAL EDUCATION I**
Summer Session – First Year
Familiarization with the equipment utilized in the treatment of patients begins along with assisting the therapist in the clinical environment, simulation area, patient care nursing areas and the mold room. Demonstrations of patient leveling skills and beginning basic treatments and simulations competencies.

**RAT 2814 CLINICAL EDUCATION II**
Fall Session – Second Year
Patient treatment competency assignments continue in radiation therapy departments. The student’s responsibilities increase as more complex competencies in patient treatment are mastered, and additional competencies are performed in simulation and the dosimetry area are performed. Student is also introduced into a variety of patient care areas.

**RAT 2824 CLINICAL EDUCATION III**
Spring Session – Second Year
Advanced clinical education stressing practical application of dosimetry competencies under the direct supervision of a medical physicist or dosimetrist. Continuation of advanced patient treatment competencies under the supervision of a registered radiation therapist, continuation of simulation procedures and quality assurance testing.

**RAT 2834 CLINICAL EDUCATION IV**
Summer Session – Second Year
The most advanced clinical education as evidenced by the level of competency demonstrated by terminal competency skills. The student will also demonstrate their didactic knowledge, technical understanding of treatment planning and basic calculations required of an entry level radiation therapist. Completion of this course will ensure that the student is competent upon graduation to assume all the responsibilities required of an entry level Registered Radiation Therapy Technologists.

**ANNUAL TUBERCULOSIS SCREENING**

As a component of the Medical History and Physical Examination completed upon admission into the program, students underwent a TB screening test. Students are required to repeat the TB screening annually. It is the student’s responsibility to ensure testing is completed annually and to submit written documentation from the physician's office of the results to the Program Manager/Clinical Coordinator. Additionally, students should retain a copy of the results in their Clinical Notebook.

If the student’s proof of an annual TB test is not current, he/she will be unable to attend the scheduled practicum, until such time that it has been made current. Students are responsible for any cost incurred with the Tuberculosis testing.
BACKGROUND CHECK AND DRUG SCREENING

All students must complete a series of background check, fingerprinting and drug screening tests prior to the start of the first term of the program.

UNIFORM PURCHASE

Students are REQUIRED to wear the uniform specified by the Radiation Therapy Program during each clinical practicum and lab course. This uniform must be purchased prior to the first clinical education, beginning in May of the first year.

Students who are not outfitted in the official uniform for the Program will be sent home from the clinical site. Any clinical contact time lost due to this will be made-up at the discretion of the Program Manager/Clinical Coordinator.

INCIDENT REPORTS - CLINICAL

All students are expected to provide interventions in a safe, ethical and legal manner whether they are being performed in a clinical setting. Any procedure that a student feels unprepared to provide should be discussed with their Clinical Supervisor prior to implementation.

The following procedure is to be followed by students for all incidents which occur during practicums that result in injury to either the patient/client or the student:

- Facility procedures are to be followed in all cases involving patient/client emergency situations, including completion of required documentation.
- The Clinical Supervisor is to be notified immediately.
- Student injuries should be assessed to determine appropriate measures to be taken. If warranted, the student will seek medical attention as indicated through his/her private physician. Payment of medical bills is the sole responsibility of the student.
- The student will complete an Incident Report and submit the original within two working days to the Program Manager/Clinical Coordinator.

The Incident Report will be permanently placed in the student's administrative file. The Associate Dean will also submit a copy of the report to the Dean's office for documentation should the student make a claim against the College.

COMPENSATION

Students are not to be paid by the clinical facilities during clinical practicums. In addition, students are discouraged from taking gifts (money or other) from any patient while attending a clinical practicum education.

CLINICAL COMPLAINT PROCEDURE

In the event that a conflict or other negative situation arises between a student and a Clinical Supervisor or other clinician at an affiliation site, the student should first attempt to resolve the situation with the person(s) involved. The student should also make the initial contact with the Clinical Instructor to discuss the complaint.

1. If, after meeting with the person(s) involved, the complaint remains unresolved, the student should contact the Clinical Coordinator.
2. The Clinical Coordinator will review the Clinical Complaint and attempt to resolve the complaint. The Clinical Coordinator will render a decision regarding its resolution.
3. If the complaint remains unresolved following the above steps, the student can request, via e-mail or in writing, an appointment with the Program Manager who will, after review of the Clinical Complaint form and the Clinical Coordinator's resolution, render the final disposition of the complaint.
Should the student remain dissatisfied with the decision, an appeal process is in place at the College during which the student will present the situation to the Academic Standards Committee (the procedure for an appeal is detailed in the College catalog).

MALPRACTICE INSURANCE

All students are required to carry professional liability insurance as offered by the College. At the time of registration for the first lab course in the program, the student is charged a fee for the coverage.

The insurance plan provides coverage for simulated laboratory activities as well as actual patient care situations that occur during clinical practicums. A fee for insurance coverage is charged each semester and is payable at the time of registration. (Fee is subject to change)

GENERAL INFORMATION

CALENDAR

Students are to adhere to the Broward College’s academic calendar as outlined in the College catalog for term schedules, holidays and non-class days.

CONFIDENTIALITY

The U.S. Department of Education’s Family Educational Rights and Privacy Act (FERPA), also known as the Buckley Amendment, is available at www.ed.gov/policy/gen/guid/fpco/ferpa or www.nova.edu/cwis/finaid/information/ferpa.html. Several laws provide for significant safeguards for the protection of the privacy rights of students with respect to educational records and/or personally identifiable information. The applicable laws provide guidance regarding a student’s right of privacy with respect to their educational records. Personally identifiable records or reports of a student and any personal information contained therein are to be maintained in a confidential manner that is consistent with university policy and procedure.

The Family Educational Rights and Privacy Act of 1974 (FERPA) protects the privacy of student education records and places certain limitations on the disclosure of personally identifiable information maintained by the university with respect to students and limits access to educational records, including the right to access, the right to inspect, the right to obtain copies, the right to seek correction of such records through informal and formal internal procedures, and the right to place a statement in such educational records explaining any information that he or she believes to be inaccurate or misleading. The law limits access by and disclosure to a third party. Such access is given only upon consent of the student or if required by law.

In this regard, the program is committed to protecting, to the maximum extent possible, the right of privacy of all individuals about whom it holds information, records and files. Access to, and release of, such records is restricted to the student concerned, to others with the student’s written consent, to authorized members of the College community, and to a court of competent jurisdiction and otherwise pursuant to law. A Release of Information form is required as written permission to release information to persons outside of the College community.

A student may request an appointment to review the contents of their administrative file by contacting the Associate Dean or the Program Manager/Clinical Coordinator who maintains the students’ records in a locked file cabinet in their respective offices.

In addition, clinical affiliates may require copies of the student’s Domestic Violence, OSHA, HIV/AIDS, Prevention of Medical Errors and CPR certifications in addition to Medical History and Physical Examination results prior to attending a clinical practicum. Consent is required before the College can release this information to the clinical site. (Refer to Appendix for Consent to Release Information to Clinicals form.)
Any breach in confidentiality, especially as it relates to patient/client information, may result in dismissal from the program in accordance with the Health Science’s Code of Professional Behavior.

**DUE PROCESS**

Broward College encourages students to resolve their differences with faculty/staff members or college officials as soon as possible. A means of review and appeal to a higher-level authority, without prejudice via a formal process for resolving grievances/complaints has been established by the Health Science programs.

Students who are appealing their final grade must follow the College Grade Appeal Procedure. The procedure is found on the BC web site, in the College Catalog and the Program Manual.

A student has the right to seek a remedy for a dispute or disagreement through a designated complaint or grievance procedure. Any grievance or complaint is given prompt and unbiased consideration. Any individual who requests information regarding this procedure or who uses this procedure will not be penalized for exercising his/her rights. No retaliation of any kind shall be taken against a student for participation in a complaint or grievance.

**FINANCIAL AID**

There are several types of financial aid available to the student. The student should contact Student Financial Services at Broward College for additional information regarding tuition assistance and financial aid application. Examples of financial aid that are available include:

1. Scholarships and waiver-of-fees are assigned on the basis of need, grade point average or talent, and full-time student status.
2. Through Educational Opportunity Grants made by the United States Government. Only full-time students of exceptional financial need are eligible.
3. Sponsored Scholarships – funds have been established by the donor(s) for individuals who meet specific qualifications. May be restricted to students from a specific community, academic Program, religion, or racial background.
4. Hospital Sponsorships - currently, Plantation General Hospital, Memorial Hospital and the North Broward Hospital District have sponsorship programs for most Health Science disciplines. Additional information can be obtained by contacting the Financial Aid office at Broward College.

**GRADE APPEAL**

The Grade Appeal process, as outlined in the Broward College Student Manual and the College catalog, applies only to final course grades. A formal grade appeal must be made within three (3) weeks after the start of the next term.

**GRADUATION CEREMONY**

Upon successful completion of the requirements of the program, the student will be awarded an Associate’s of Science Degree or Technical Certificate in Radiation Therapy from Broward College. A pinning ceremony is held in August of the graduating year. Students may attend the December graduation ceremony for official conferring of the degree.

**LEARNING RESOURCES/LEARNING ASSISTANCE**

Academic Success Centers are located at all campus locations. They provide remedial, supplemental and enrichment instructional services for the student.

Computers are available for student use at all campus locations for report writing, Internet access and other applications as needed. At the program sites, computers are available, both in the laboratory/classroom, as well as in the Health Science buildings for student use at designated times that become available at the start.
of each academic year. In addition, the student may refer to the respective College catalogs for specific locations and hours of operation of computer labs.

LETTERS OF RECOMMENDATION OR REFERENCES

A student may authorize the program to release information regarding their academic record and clinical performance to outside sources upon written consent. To allow program faculty to send letters of recommendation or give references for scholarship applications a release form must be signed by the student. (Refer to Appendix for Consent to Release Information form).

LIBRARY

The libraries that serve Broward College provide materials which support the curriculum and objectives of the RAT program. Interstate networks (SEFLIN, etc.) and Internet access is also available. Specific locations and hours of operation are detailed in the respective catalogs.

In addition to the library holdings, the program has compiled a collection of journals. An intra-departmental library also exists for the students to utilize as needed. The student must sign out the requested volume(s). The length of sign out time is no longer than two (2) weeks depending upon the demand for the item borrowed.

licensing examination

Graduates of the Radiation Therapy Associate Degree of Science Program or the Technical Certificate Program are eligible to sit for the American Registry for Radiologic Technologists (ARRT) Examination. Specific information regarding application for the registry examination can be found on the ARRT website (www.arrt.org). Registry examinations are computer-based. Historically, the program has a pass rate that surpasses the State and National average.

Persons convicted of a felony offense may not be eligible to sit for the registry examination. The ARRT requires any licensure applicant who has ever been convicted or found guilty of a felon, regardless of adjudication, to explain the circumstances prior to sitting for the registry.

Parking

Students should park in designated parking areas while on campus. Security officers check parking areas regularly and tickets are written for parking of vehicles in handicapped, reserved or visitor areas. Students will be charged a fee each semester for parking access on any of the BC campuses.

Security Services

Security Offices are located on campus on a 24 hour basis/seven days a week. More specific information is detailed under Reacting to Emergencies in this Manual. The College is not responsible for a student's personal property. Students should keep items such as purses or handbags in their possession at all times.

Student Activities

Broward College supports a variety of lecture, concert and sporting events during each term and encourages the student's participation. Contact Student Activities on either site for additional information and to request a calendar of events.

Transportation

A car is essential. The student may be able to car pool however the schedule of classes and/or clinicals cannot be arranged to accommodate individual schedules or the schedule of students in a car pool. The student assumes all responsibility for all costs related to travel as well the actual travel to and from clinical sites and arranged field trips which may or may not be close in proximity to their geographical residence.