

# CURRICULUM STANDARD

Effective Term  
Fall 2006  
[2006\*03]

Curriculum Program Title

**Radiation Therapy Technology**

Code

**A45680**

Concentration

**(not applicable)**

## *Curriculum Description*

The Radiation Therapy Technology curriculum is designed to train students to work in conjunction with nurses, physicists, and physicians in the application of prescribed doses of ionizing radiation for the treatment of disease, primarily cancer.

Course work includes physics, anatomy and physiology, dosimetry, and clinical oncology. The student will be skilled in treatment management, administration of prescribed radiation treatment, and provision of patient support.

Graduates may be eligible to sit for the National Radiation Therapy Exam, given by the American Registry of Radiologic Technologists. Employment opportunities can be found in hospitals and freestanding cancer centers.

## *Curriculum Requirements\**

*[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204(3)]*

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit (SHC)</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

*\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.*

# Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

## Radiation Therapy Technology A45680

	AAS	Diploma	Certificate
<b>Minimum Major Hours Required</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<b>A. CORE</b> <i>A diploma offered under this AAS degree requires a minimum of 12 SHC extracted from the required subject/course core of the AAS degree.</i> <b>Required Courses:</b>	<b>47-51 SHC</b>	<b>12 SHC</b>	<b>NR</b>
RTT 120 Radiation Therapy Positioning 3 SHC RTT 121 Special Imaging 2 SHC RTT 151 RTT Clinical Education I 5 SHC RTT 161 RTT Clinical Education II 3 SHC RTT 210 Radiobiology 2 SHC RTT 221 Clinical Oncology I 3 SHC RTT 222 Clinical Oncology II 3 SHC RTT 232 Radiation Therapy Procedures 2 SHC RTT 246 RTT Clinical Education V 6 SHC			
<b>Required Subject Areas:</b> <b>Clinical Education IV.</b> Select one: RTT 238 RTT Clinical Education III 6 SHC RTT 240 RTT Clinical Education III 6 SHC <b>Clinical Education V.</b> Select one: RTT 239 RTT Clinical Education IV 7 SHC RTT 241 RTT Clinical Education IV 7 SHC RTT 243 RTT Clinical Education IV 6 SHC RTT 244 RTT Clinical Education IV 6 SHC <b>Dosimetry.</b> Select one: RTT 231 Dosimetry 3 SHC RTT 234 Clinical Dosimetry 2 SHC <b>Radiation Physics.</b> Select one: RAD 131 Radiographic Physics I 2 SHC RTT 230 General RAD THRY Physics 3 SHC RTT 233 Radiation Therapy Physics 2 SHC <b>Radiation Therapy.</b> Select one: RTT 150 Radiation Therapy Orientation 3 SHC RTT 220 Radiation Therapy Orientation 2 SHC			
<i>Continued on next page</i>			

**Radiation Therapy Technology A45680 (Continued)**

<b>B. CONCENTRATION</b> <i>(Not applicable)</i>			
<b>C. OTHER MAJOR HOURS</b> <i>To be selected from the following prefixes: BIO, CIS, COE, CSC, HSC, RAD, and RTT Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i>			