

FORM C - DEGREE/PROGRAM CHANGE

Date: 11/6/08

Elizabeth J. Greer
(Name of individual initiating curricular change form)

Program Director/Lecturer III
(Title, position, telephone number)

ejgreer@unm.edu
(Email address)

Radiology/Rad Sciences/Nuclear Medicine
(Department/Division/Program/Branch)

Mark appropriate Program:
Undergraduate Degree Program
Graduate Degree Program (For existing degree only)

Mark appropriate category:

	NEW	REVISION OF	DELETION	NAME CHANGE
Degree <u> </u> Type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Major	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concentration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Certificate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emphasis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Department	<input type="checkbox"/>	NA	<input type="checkbox"/>	<input type="checkbox"/>
Subject Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CIP CODE

Assigned by
Associate Provost
for Academic Affairs

- ROUTING (All Four Collated Sets)**
1. Department Chairperson
 2. College Curriculum Committee
 3. College or School Faculty (if necessary)
 4. College or School Dean/Dean of Instruction
 5. Office of the Registrar—Catalog
 6. Director of relevant Library
 7. FS Graduate Committee (graduate courses)
 8. FS Undergraduate Committee (undergraduate courses)
 9. FS Curriculum Committee
 10. Assoc. Provost for Academic Affairs
 11. Faculty Senate
 12. Board of Regents (new degree only)

* Plan for curricular process to take at least 12 months.
This form is for Computed Tomography Certificate program
Name of New or Existing Program
This program is or would be located in current undergraduate/graduate catalog on page(s) to be located on 563, 565 (existing course descriptions)

UNM
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OFFICE OF THE REGISTRAR

Give exact title and requirements as they should appear in the catalog. See current catalog for format within the respective college (attach additional sheets if necessary). Identify in bracket form what is being changed.

See attached form (1)

Reason(s) for Request (attach additional sheets if necessary).

Certificate awarded currently nontranscribed

Attach statements to address Budgetary and Faculty Load Implications and Long-range planning.

Does this change affect in a significant way, any other departmental programs/branch campuses? Yes No

If yes, have you resolved these issues with department/branch involved? (attach statement)

Proposed Effective Term: Fall, 2009
Term Year

Required Signatures:

Department Chair <u>[Signature]</u>	Date <u>11/6/08</u>
College Curriculum Committee <u> </u>	Date <u> </u>
College or School Faculty (if necessary) <u> </u>	Date <u> </u>
College or School Dean/Dean of Instruction <u>Ellen M. Cozzone md</u>	Date <u>11/2/09</u>
Office of the Registrar—Catalog <u>Elizabeth A. Barton</u>	Date <u>01/24/09</u>
Director of relevant Library <u>Wynne Can</u>	Date <u>11/11/08</u>
FS Graduate Committee (graduate courses) <u> </u>	Date <u> </u>
FS Undergraduate Committee (undergraduate courses) <u>[Signature]</u>	Date <u>02/11/09</u>
FS Curriculum Committee <u>[Signature]</u>	Date <u>3-5-09</u>
Assoc. Provost for Academic Affairs <u>Wynne Can</u>	Date <u>3/11/09</u>
Faculty Senate <u> </u>	Date <u> </u>
Board of Regents <u> </u>	Date <u> </u>

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Entered Catalog

For Registrar's Office ONLY

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The Radiologic Sciences Education Program

The Radiologic Sciences program at UNM, offers a Bachelor of Science degree in Radiologic Sciences (BSRS) with concentrations in Nuclear Medicine or Radiography. Currently, this program offers a one-year Certificate in Nuclear Medicine Imaging. Proposed to begin also in the fall of 2009 are certificate completions in Computed Tomography, Magnetic Resonance Imaging or Positron Emission Tomography. We hope in the near future to also offer these through distance education.

We recently placed a moratorium on our entry-level Radiography Associate's degree to focus on a degree completion program (2 + 2) With CNM (24 students per year graduate), PIMA Medical Institute (25 students every 8 months graduate), Northern College (7-16 per year graduate), Clovis Community College (8-18 students per year) and Dona Anna Community College of New Mexico State (18-22 students per year graduate). The BSRS program and advance imaging certificates at UNM are the only offered in the state of New Mexico. The BSRS currently provides emphases in management, computed tomography (CT), or magnetic resonance imaging (MRI) face to face. Again the plan is to include the addition of Positron Emission Tomography- Computed Tomography (PET-CT) as well as a certificate path in each of the other specialty modalities currently offered. This additional education and training will be offered to returning students who wish not to do the additional course work necessary for completing a degree as well as to the new graduates from across the state listed above. All these new additions to this program we hope to offer in the future through distance education throughout the state of New Mexico. This field is growing in the advance imaging areas faster than schools have been created to train. The advance imaging job market is in great need for these specialty trained technologists and report shortages across the country while the entry level programs within this state and others are more than providing enough technologists to meet the needs.

With the rapid and numerous changes in the field of radiologic technology, training programs must look forward to preparing students to fulfill the demand for technologists in the areas of advanced imaging. Growth and advances in MRI, CT, and PET CT imaging demand training programs that can train Radiologic and Nuclear Medicine technologists capable of successfully performing these new and specialized procedures. Currently in the United States, CT programs number approximately 25, MRI 10, and PET-CT has no formal program yet list until now.

The baccalaureate degree program that started in 1998 has 37 active baccalaureate degree students. This program has the capabilities at this time to grow to 50 students within Bernalillo County. This department is currently involved in offering a branch of this program through the UNM-West expansion. The enrollment is expected to go up as the community learns of the new certificates in CT, MRI and PET-CT. It will continue to grow as many of the students from the five in-state entry-level radiography programs seek their baccalaureate degrees and advance certifications as well as returning technologists living and working throughout the state.

Introduction and rationale for Radiologic Sciences curriculum revisions/additions

The Radiologic Sciences program has recently increased their faculty to four full-time and one part-time faculty members to help implement the advanced degree/certificate emphases. The faculty is involved in teaching, clinical, student advisement and outreach throughout the state, and works with main campus groups to inform potential students of their career options.

Our programs have a history of academic excellence. Students completing our programs score significantly higher on their board exams and easily find employment. One of our recent nuclear medicine classes scored a class average over 90% in all areas with a 95% in patient care skills. We are convinced that the changes in our current program will continue to provide the diagnostic imaging field with highly qualified technologists with advanced technical training.

Computed Tomography Transcribed Certificate Course outline

This 12-month program is an advanced specialty course intended for radiographers who desire specific training in Computed Tomography. Upon entering this highly technical field, you will gain a thorough understanding of the physical principle upon which it is based -- a knowledge of anatomy from a cross sectional perspective.

Computed Tomography Advance Imaging Certificate

Fall Semester

RAD 420 Computed Tomography Clinical 1 3

RAD 410 Physics of Computed Tomography 3

HSCI 480 Human Cross Sectional Anatomy 3

9

Spring Semester

RAD 421 Computed Tomography Clinical 2 3

RAD 411 Physics of Computed Tomography 2 3

6

Summer Semester

RAD 422 Computed Tomography Clinical 3 3

RAD 412 Computed Tomography Review 1

4

Computed Tomography Imaging Certificate Program

Lecturer III

Rebecca Blankley, M.F.A., R.T., (R) (M) (CT)

Gregory Chambers, M.S., CNMT, RT (N)

Sheldwin Yazzie, B.S., CNMT, RT (N)

Introduction

The CT Certificate Program at the University of New Mexico is a certificate program designed to prepare those individuals interested in sitting for the:

- 1) America Registry of Radiologic Technologists Computed Tomography (CT) specialty exam.

ADMISSION PROCEDURE

The application deadline for admittance to the CT certificate program is June 1st of each year. Program information is provided upon request from the Radiologic Sciences Department located at the University of New Mexico, School of Medicine. An application to the University of New Mexico is required for all those participating in the degree completion program. The University of New Mexico and the Radiologic Sciences Department does not discriminate against any applicant based on sex, age, race, religion, creed, or national origin.

ADMISSION REQUIREMENTS

1. Applicant must meet the University of New Mexico admission requirements (refer to UNM Catalog).
2. While competitive grade point averages are usually higher, each applicant must have a minimum cumulative grade point average of 2.5 in post-secondary course work.
3. A completed application, three letters of recommendation, and official transcripts must be received by Radiologic Sciences Program office by June 1st of each year for acceptance into the program the following fall semester.
4. Students participating in the CT Certificate Program must be certified by the American Registry of Radiologic Technologists (ARRT), or the Nuclear Medicine Technologist Certification Board (NMTCB).
5. The program selection committee will conduct personal interview with each student candidate.
6. Course plan will be determined based upon prior college coursework completed.

Program Curriculum:

Those qualified to sit for the exam and eligible for this program are active NMTCB, ARRT(N), or CAMRT(RTNM) certification and a minimum of 700 hours of clinical experience on a dedicated PET scanner or PET/CT scanner. Those individuals who are active CAMRT(RTR), CAMRT(RTT), ARRT(R) or ARRT(T) certification must fulfill special requirements which include the above and satisfactory completion of a minimum of fifteen (15) contact hours of coursework in each of the following areas: radiopharmacy, nuclear medicine instrumentation and radiation safety. This program is a part-time or full-time program of clinic and classroom instruction. Students must apply and are admitted once a year. The program is accredited by the North Central Association of Colleges and Schools, and the Commission on Institutions of Higher Education. The CT certificate program provides the student with the knowledge and skills necessary to perform the necessary diagnostic procedures.

For those who have already completed a certified Radiography or Nuclear Medicine program, this course work is required to be transferable from another institution. The following curriculum is required for completion of the Certificate in CT

Computed Tomography Certificate

RADS 410 Physics of Computed Tomography. (3) Blankley

Course provides instruction in physics and instrumentation related to computed tomography including the history of the development of computed tomography, system operation and components, image formation and reconstruction.

RADS 411 Physics of Computed Tomography II. (3) Blankley

A continuation of RAD 410 further providing advance instruction in physics and instrumentation related to computed tomography including the history of the development of computed tomography, system operation and components, image formation and reconstruction.

RAD 412 Computed Tomography Physics Review. (1)

Comprehensive examinations and topic review will take place throughout the semester. The registry review examinations will encompass the listed topics for students to demonstrate a basic knowledge of computed tomography and physics.

RADS 420 Computed Tomography Clinical I. (3) Blankley

Course provides clinical instruction in computed tomography including the system operation and components, image formation and reconstruction, characteristics of image quality, and artifact recognition/reduction.

RADS 421 Computed Tomography Clinical II. (3) Blankley

Course is a continuation of RADS 420 and provides additional clinical instruction in computed tomography including the system operation and components, image formation and reconstruction, characteristics of image formation and reconstruction characteristics of image quality, and artifact recognition/reduction.

RADS 422 Computed Tomography Clinical III. (3) Blankley

Course is a continuation of RAD 420 and RAD 421. Course provides additional clinical instruction in computed tomography including the system operation and components, image formation and reconstruction, characteristics of image quality, and artifact recognition/reduction.

HSCI 480 Human Cross Sectional Anatomy. (3) Chambers

Course examines three dimensional relationships of skull, brain, CNS, thorax, abdomen and pelvis correlating this information with imaging modalities (CT, MRI, Nuclear Medicine).

Restriction: Enrolled in Radiologic Sciences Program

Budgetary and Faculty Load Implications and Long-range planning-Certificate Computed Tomography

Justification for offering the course: These courses are a part of the existing non transcribed Certificate in Computed Tomography Advance Imaging program. Additional faculty have been hired.