



Radiologic Technology Program

Program & Application Information

The field of radiology is one of the most exciting and progressive areas within all of allied health. The Radiologic Technology Program offered by Zane State College is designed to prepare students for careers as imaging professionals. Through didactic and clinical learning experiences, the program provides opportunities for students to develop clinical competency while striving for professional excellence.

This packet provides information about the program and application requirements.

Application Deadline: February 27, 2020, at 5:00 p.m.



Radiologic Technology is accredited by:
Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Dr., Suite 2850
Chicago, IL 60606-3182
(312) 704-5300
<http://www.jrcert.org>

FACULTY:

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HEALTH PROGRAMS APPLICATION COVER PAGE

Name: _____

Address: _____

Phone #: _____

E-Mail: _____

Student ID #: _____

Programs Applying For:

- Applicants are required to indicate a minimum of two and a maximum of three programs/degrees, ordered according to your preference as number 1, 2, or 3.
- You must submit **ALL** required application materials for **EACH** of your 1st, 2nd, and 3rd program selections below. Duplicate requirements for two or more programs can be noted as, "See page ___ of ___ section."

Selective Programs

___ Medical Laboratory Technician (MLTP)

___ Occupational Therapy Assistant (OTAP)

___ Physical Therapist Assistant (PTHA)

___ Radiologic Technology (RADT)

Non-selective Programs

___ Health Information Management (HIMT)

___ Medical Assisting (MEDA)

Completed folders are to be submitted in one of two ways:

1. **Mailed to:**
Zane State College/Health Science Hall
1555 Newark Road
Zanesville OH 43701
2. **OR dropped off in the reception area of Health Science Hall, H325**

COMMON HEALTH PROGRAMS APPLICATION CHECKLIST for 2020-2021 Academic Year

- **PUT YOUR NAME, ADDRESS, AND STUDENT ID# ON THE FRONT OF THE FOLDER**
- **Folders must be three-pronged – not three ringed.**
- **Include and complete this checklist as the second page of your application folder.**
- **Place all items in numbered page protectors, and include one tab divider for each program to which you are applying. Label these dividers with the four letter program code indicated on the Application Cover Page. The tab(s) is/are to be placed after Page 6 from the list below.**

<input type="checkbox"/>	Page 1	Health Programs Application Cover Page
<input type="checkbox"/>	Page 2	Common Health Programs Application Checklist (this page)
<input type="checkbox"/>	Page 3	Unofficial Zane State College transcripts that include current GPA. If you have not previously taken Zane State classes, insert a page with that information noted. Unofficial transcripts from <u>all other</u> colleges you have attended. These should include grades through the end of fall semester prior to application. If none, insert a page and indicate you have not attended another college.
<input type="checkbox"/>	Page 4	Copy of transfer credit awarded by Zane State College for courses taken at other institutions. <u>Submission of official transcripts to the Registrar’s Office should be no later than December 19, 2019, so that there is ample time for review.</u>
<input type="checkbox"/>	Page 5	Copy of ACT scores and/or Health Occupations Aptitude Exam score. Required for MLTP, OTAP, PTHA, and RADT.
<input type="checkbox"/>	Page 6	Evidence of readiness for or completion of BIOL 2400/2410 by indicating the following: ____ I have taken a high school level advanced biology or anatomy and physiology (A&P) in the past three years and passed it with a “C” or higher. ____ I have taken college level A&P in the past five years and passed both lecture and lab sections with a “C” or higher. This course, if taken at another institution, has been approved for transfer credit by the Zane State College Registrar’s Office. ____ I have taken college-level A&P greater than 5 years ago and understand that I will be required to retake and successfully complete both lecture and lab sections with a “C” better. ____ I have taken BIOL 1210 and passed it with a “C” or better. ____ I am scheduled to take BIOL 1210 ____ semester. ____ I am currently or scheduled (circle one) to take BIOL 2400/2410 ____ (semester/year).
<p>NOTE: No page should be left blank. If the item required on a page is not applicable to you, please provide a brief explanation as to why it does not pertain to you on the appropriate page.</p>		
<p>Program Specific Requirements: Following Page 8, place your program specific documents behind the appropriately labeled tab divider. Each document should be in a numbered page protector. They are to be in the order specified in the program specific requirements checklist. Duplicate requirements for two or more programs can be noted as, “See page __ of section __.”</p>		

- **Sample application folders are available for review in the Student Services, on the Cambridge Campus, and in the Health Science Hall reception area. The sample may also be viewed on the College website under each health program’s tab.**

RADT PROGRAM APPLICATION CHECKLIST
(Please include as the first page after your RADT tab in your folder.
The following items are specific to the RADT program)

<input checked="" type="checkbox"/>	RADT Page 1	Checklist (this is to ensure you have everything included in your packet)
<input type="checkbox"/>	RADT Page 2	Unofficial High School Transcript (minimum GPA 2.5) or GED certificate.
<input type="checkbox"/>	RADT Page 3	Observation Validation Form (please include all pages)
<input checked="" type="checkbox"/>	RADT Page 4	Self-composed paper answering specific questions regarding the profession of radiologic technology. You may add additional information regarding life experience at the conclusion of the paper.
<input checked="" type="checkbox"/>	RADT Page 5	A current resume including (but not limited to) all previous educational institutions, work experience, and organization activities.

You must place your initials next to the statements below to verify that the following information is complete. An incomplete application will be considered invalid and will not be processed.

1. _____ My Health Occupations Aptitude score was a 50 or higher (or an ACT composite score of 20 or higher).
2. _____ I have completed the information session requirement.
3. _____ I have included unofficial copies of high school and ALL college transcripts (including Zane State College).
4. _____ I have met the pre-requisites for (or successfully completed) the following courses:
 - BIOL 2400 and BIOL 2410
 - MATH 1650
 - ENGL 1500
5. _____ I have completed a minimum of 12 hours of hospital observation, as outlined in this packet.
6. _____ I have included ALL transfer credit award letters (if applicable)
7. _____ I have read the program's Technical Standards of Admission (page 7)
8. _____ I have previously applied to the Zane State College Radiologic Technology program and met minimum requirements: No ____ Yes ____ If yes, in what year did you apply? ____
9. _____ I am aware that should I be accepted into the RADT program, I must attend a mandatory orientation on Friday, March 27, 2020.
10. _____ My signature confirms that all information submitted is complete and truthful:

Signature _____ Date _____

GENERAL INFORMATION

Thank you for your interest in the Radiologic Technology program at Zane State College! This information packet details the program and application process. We are currently accepting applications for summer semester 2020. Please familiarize yourself with this information and the deadline date if you plan to apply. All of the outlined requirements must be met by the deadline to be considered for the RADT program in the summer of '20.

Although you are not eligible to begin RADT classes at the present time, you may elect to enroll in general and related courses which are part of the RADT curriculum. You must apply separately for admission to the RADT Program. Demonstration of academic excellence in these courses will enhance your application to the RADT program. Please contact a RADT faculty advisor for assistance with academic advising.

Please feel free to contact Jen Fox with any questions. The e-mail address is jfox2@zanestate.edu and is the preferred method of communication. If you do not have computer access you may call Ms. Fox at 740-588-4132. It is recommended that prospective students spend some time becoming familiar with radiologic technology and health care. Working in health care as an employee or volunteer would be helpful in this regard, but is not required.

The curriculum for the program includes clinical experience (Directed Practice) at our affiliate facilities: Genesis Healthcare Systems in Zanesville and Cambridge, Southeastern Ohio Regional Medical Center in Cambridge, Union Hospital in Dover, and Orthopaedic Associates in Zanesville.

If you have been accepted to Zane State College, but not the RADT program, you may enroll in the Associate of Science transfer degree. This curriculum allows you to complete courses pertaining to the RADT degree as well as other health technologies offered at Zane State College.

Please be aware that only 14-16 students are accepted into the RADT program which begins each summer semester. The program administration reserves the right to accept students on a conditional basis if there are not enough qualified applicants to fill a cohort. Other than the minimum criteria listed in the college catalog, selection is based upon performance in the following:

1. High school math and science course grades.
2. High school grade point average.
3. College math and science course grades which apply to the RADT curriculum.
4. College grade point average.
5. Health Occupations Aptitude Exam score.
6. Answers to essay questions.
7. College level courses which apply toward the RADT curriculum.
8. Clinical observation evaluations.
9. Work experience with the public or in health care.

Once admitted to the RADT program, students spend 16 to 24 hours per week in clinical courses learning and performing radiographic skills in a hospital setting. This is in addition to 15 to 20 classroom hours per week at the college.

If you are considering Zane State College's Radiologic Technology Program

The following information will be helpful:

- Zane State College's RADT program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).
- The RADT program at Zane State College has a reputation for excellence.
- Graduates of the RADT program are employed across the United States.
- Upon completion of the program, a national certification exam is required.
- The RADT program only accepts new students once per year and can be entered only during the summer semester.
- The RADT program at Zane State College is competitive. This means there are many students applying for a limited number of spaces.
- Students interested in RADT must complete the application to the College listing RADT as their program of study.
- Students accepted into the RADT program must meet the RADT program Technical Standards Requirements (listed on next page).
- In order to be eligible for admission to the Radiologic Technology program for any upcoming summer semester, applicants must place into all college level courses or have successfully completed any needed basic skills development courses.
- Students ineligible for RADT who pursue the health core and who remain interested in RADT may reapply for admission to the program for the following year. Early application is encouraged. Please contact the RADT faculty to discuss requirements for re-application prior to the January deadline.
- Students pursuing studies in RADT may find they are unable to hold full-time employment while in school due to the highly structured scheduling necessary at clinical sites.
- Students who have been convicted of a felony charge may not be eligible to apply for the American Registry of Radiologic Technologist (ARRT) Certification examination. If a student has a previous felony or misdemeanor conviction or positive background check, the student **will be required** to complete ARRT pre-applications for Ethic Committee review (and applicable fee). Please contact the Program Director for information about the ARRT pre-application form as soon as possible.
- Some RADT clinical rotations include limited attendance on 3-11 p.m. shifts and one weekend 11 p.m.-7 a.m. shift.
- Students officially accepted into RADT will be required to acquire immunizations, TB test, Healthcare Provider CPR certification, background check, and a health physical at their own expense.

- Students will be required to travel during the five semesters while completing the Clinical Directed Practice courses (clinical rotations). Although every attempt possible is made to minimize distances between the students' home or College and clinical site, students may be required to travel for clinical education. Students are responsible for their own transportation to and from clinical sites. Efforts are made by the RADT program faculty to keep one way travel at or under 75 miles from Zane State College.
- The RADT program faculty will try to make reasonable accommodations for students with special needs or disabilities, but students still need to meet the technical requirements for employment as a Radiographer.
- The Directed Practice courses do vary from the Department of Higher Education (Ohio Board of Regents) guidelines of 4500 minutes per credit hour. RADT 1050, RADT 1100, RADT 2400, RADT 2500, and RADT 2600 have a ratio of 6720 minutes per credit hour.

Technical Standards Requirements for Zane State College RADT Program

If a student needs accommodations to perform these tasks, it is the responsibility of the student to provide formal documentation of the disability so an attempt can be made to meet his or her needs.

Occasionally Radiographers must be able to:

- Crouch: To position patients for exams and stocking supplies
- Perform repetitive motions: To enter computer data
- Grasp: To position patients for exams and procedures
- Pull: To move equipment or supplies that can weigh as much as 50 pounds

Frequently Radiographers must be able to:

- Push: To transport patients in wheelchairs or on carts using 25 pounds of force. Move portable and C-arm equipment with 20 pounds of force to a variety of areas in the hospital or medical centers
- Pull: To assist and move patients off and onto carts using eight to 24 pounds of force
- Lift: To move patients (who can weigh more than 50 pounds) from wheelchairs/carts off and onto exam tables
- Use Fingers: To enter computer data and setting techniques for exams
- Carry: To carry cassettes or supplies that can weigh as much as 25 pounds

Constantly Radiographers must be able to:

- Stoop: To position for exams and assist patients in and out of wheelchairs
- Reach: To position patients and manipulate standard or portable equipment
- Stand: All clinical assignments require standing for long periods of time
- Walk: To transport and assist patients into dressing/exam rooms. Walk to other areas of the department and hospital to do exams or have films interpreted
- Feel: To perceive attributes of patients and objects such as when positioning patients for procedures

Communication Requirements - Radiographers must be able to:

- Talk: To speak clearly and concisely with patients, co-workers, and physicians in English when applicable using standard medical terminology
- Hear: To perceive the nature of sounds at normal range; includes the ability to receive detailed information through oral communication, and to make fine discriminations in sound, such as when taking blood pressure. Should hear faint sounds at a distance of 15 feet.
- Read: To read and interpret directions from physicians or one's supervisor
- Write: To prepare written documentation in appropriate English formats using standard medical terminology

Physical Demand Requirements – Radiographers must be able to:

- Heavy clinical assignments: Radiographers may exert up to 100 pounds of force occasionally, and/or up to 40 pounds of force frequently, and/or up to 20 pounds of force while performing exams and pushing carts, wheelchairs, and portable equipment

Visual Acuity Requirements

- Radiographers are required to use computer terminals and set the proper exposure techniques on the X-ray equipment
- Clinical assignments require visual assessment of radiographs
- Clinical assignments require working with printed and/or written documentation
- Radiographers must assess patient's condition, i.e., color, respiration, motion, etc
- Far vision correctable to 20/20 in one eye and 20/40 in the other.

Medical and Physical Requirements – Frequently Radiographers must be able to:

- Stretching, twisting, kneeling and crouching may be required to operate equipment and to reach some patient's body positions.
- Good manual dexterity is required to operate equipment position patients
- Work with arms overhead for an extended amount of time.

If a student needs accommodations to perform these tasks, it is the responsibility of the student to provide formal documentation of the disability so his or her needs can be met. No student or potential student will be denied admission into the RADT program due to disability, age, race, color, gender, sexual orientation, religion, national origin, or ancestry.

COMMUNICATION OF CONCERNS

The Zane State College RADT program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Standards of JRCERT are utilized to ensure programmatic quality and are as follows:

- Standard One: Integrity
- Standard Two: Resources
- Standard Three: Curriculum and Academic Practices
- Standard Four: Health and Safety
- Standard Five: Assessment
- Standard Six: Institutional/Programmatic Data

More information regarding the Standards of the JRCERT can be found on their website. Students will also learn more about JRCERT and the Standards in the RADT introductory course (RADT 1010).

Should a student have concerns about the Zane State College RADT program's adherence to the Standards of the Joint Review Committee on Education in Radiologic Technology (JRCERT), a form may be obtained from the program faculty. The student may report those concerns to the JRCERT at:

JRCERT
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Phone: (312) 704-5300
Website: www.jrcert.org
Email: mail@jrcert.org

Radiologic Technology Program - Application Requirement Checklist

Because of the importance of the role played by the radiologic technologist in the recovery and well-being of injured and ill patients, standards for the profession are established by the American Registry of Radiologic Technologists and practice is regulated by licensure from the state of Ohio (Ohio Department of Health). In order to provide a program that facilitates success for its graduates, it is essential to select students who meet rigorous requirements. Please be aware that students are admitted on a competitive, selective admissions basis. **Application does not guarantee admission, and there is NO WAIT LIST.**

The following criteria have been established as mandatory for all students interested in entering the Radiologic Technology program. It is recommended that applicants allow a minimum of one month to meet these criteria, however; allowing two to three months to pursue the application process is most beneficial. These criteria and any documentation required as evidence of meeting the criteria must be submitted to the RADT Program Director by the established deadline of the academic year prior to when the student plans to enroll in the program.

Admission to the program is selective due to the number of clinical sites available. To be considered for the class starting SUMMER 2020, you must complete all of the following and submit appropriate documentation by the stated deadline. Any files that are not completed by the deadline, will NOT be considered for admission into the RADT program for that year. PLEASE FOLLOW THE INSTRUCTIONS FOR THE COMMON HEALTH PROGRAMS APPLICATION. ALL DOCUMENTS SHOULD BE PLACED IN PAGE PROTECTORS IN A THREE PRONG FOLDER ACCORDING TO THE APPLICATION CHECKLIST. **Remember that this folder is your written interview, please ensure that it is complete and is presented in a professional manner.**

1. Apply to Zane State College listing RADT as the program of study.
2. **Watch the mandatory information video and complete the post quiz as verification** found on the Zane State College radiology webpage. This video includes information about the profession and details the application process. It is recommended that applicants watch this video early during Fall semester to allow adequate time to complete the application. Even if you have applied and watched the video previously, you will need to complete it again for this application year.
3. Completion of high school and/or previous college work with a minimum grade point average of 2.5 on a 4.0 scale.
4. Complete the Health Occupations Aptitude Exam (HOAE). **A minimum percentile score of 50 must be earned.** The exam is scheduled each Fall Semester by the Zane State College Testing Center. For questions, you can contact The Testing Center at 740.588.1227. Students with an ACT composite score of 20 or higher will be exempt from taking the HOAE (must provide documentation in application folder).
5. Complete the Zane State College Accuplacer Test for math and communication skills (if applicable). This may be arranged through the Testing Center at (740) 588-1227.

6. Submit a 3-4 page paper answering the questions about the profession of Radiologic Technology. A copy of the question prompts can be located on page 13 of this packet. The paper should be typed and included in the student application folder.
7. Complete 12 hours of hospital Radiology observation at the three designated affiliate clinical sites. This can be arranged by attaining a clinical observation form on the RADT program website. Completing more than 12 hours of will NOT increase your point value towards admissions.
8. If you have attended college previously (other than Zane State College), submit all college transcript(s). Submission of transcripts to the Registrar's Office should be no later than December 18, 2019.
9. Submit a HS transcript or GED certificate.
10. If a current student at Zane State College, an unofficial, current transcript **must** be submitted.

Eligibility and Selection Procedures

An **eligible applicant** for the RADT Program is that individual who has:

1. Submitted all required materials/documentation by the deadline.
2. Met all admission requirements.

Only those students who meet eligibility as defined will be considered for admission.

Once eligibility is established, all applicant materials will be reviewed. Applicants will be rank ordered on a point system from the most qualified to the least qualified. The students with the highest number of points will be accepted into the program. Enrollment may vary from year to year.

Identification of most qualified applicants versus least qualified is guided by the following statement: The RADT Program Admission Requirements are the minimum standards for admission. Therefore, eligible applicants who exceed these requirements will be considered more qualified than those eligible applicants who only meet the minimum requirements.

FOR EXAMPLE:

An applicant with a high school grade point average of 3.0 exceeds the minimum requirement of 2.5 and, therefore, will receive more qualifying points than an applicant with a GPA of 2.5.

An applicant who has completed college level work successfully in English, math, biology, anatomy and physiology, and medical terminology will receive more qualifying points than a student who has successfully completed work in psychology, sociology, or basic skills courses.*

*Successful completion of a course is defined as a grade of A, B, or C.

Please do not contact Ms. Fox regarding your admission status. Letters will be sent to all applicants who met the minimum requirements during March of the application year.

GUIDELINES FOR STUDENT OBSERVATION IN RADIOLOGY

<u>Hospital</u>	<u>Clinical Instructor</u>	<u>Telephone No.</u>
Southeastern Med	Kristi Cunningham	(740) 439-8036
Genesis Hospital	Deb Neal	(740) 454-4757
Union Hospital	Ammie Katicich	(330) 343-3311 ext. 2640

Contact the clinical instructor at the above hospitals to schedule a time to observe the Medical Imaging Department. **You are required to observe for a total of twelve (12) hours, so make arrangements with the clinical instructor to schedule these hours. Walk-ins are not accepted. You must attend observation at all THREE (3) clinical sites.** If you need to leave a message be sure to speak slowly and identify yourself with your full name and telephone number, area code included. Please report to the Radiology reception desk at Genesis Hospital, Union Hospital, or Southeastern Medical Center upon the time directed by the clinical instructor. You will be given a tour of the various diagnostic areas and will be allowed to observe radiographic procedures. This visit to the Medical Imaging Department is intended to be educational and enlightening. However, due to the nature of the work, the following guidelines MUST be observed.

1. Professional attire (business casual) is required, however scrubs are not recommended. No jeans, shorts, tennis shoes, open toe shoes, hats, excessive jewelry, revealing clothing, or gum chewing will be permitted. Perfume or cologne are not permitted.
2. **All information regarding a patient's medical history, present illnesses, diagnosis, or other conditions must be kept confidential. A confidentiality form may be required.**
3. For the safety of the patients, personnel, and yourself, please do not attempt to assist with the procedure. This is merely an observational experience and the student may not participate in radiographic procedures.
4. If work assignments in an area are completed, please check with the clinical instructor or other technologist for further instructions.
5. Please feel free to ask questions. This is an excellent opportunity to learn about the field of radiologic technology and should help you to decide if this will be your career choice. **However, please do not ask questions in front of patients.** Direct your questions to students, technologists, or the clinical instructor in private.
6. Upon completion of your 12 hours of observation, you will need to answer the questions on the observation documentation form. Your behavior and performance during these observation times will also be evaluated by the clinical staff.
7. **Cell phone use during observation hours is strictly prohibited.** You may be asked to leave the clinical site and not complete your observation hours for violation of this policy.
8. Any inappropriate behavior during observation hours may result in you being asked to leave the facility.
9. Bring your Observation Documentation Form and confidentiality waivers to each clinical site for a signature of attendance. This form can be found on the Radiologic Technology webpage at www.zanestate.edu.

OBSERVATION EVALUATION
ZANE STATE COLLEGE
ZANESVILLE, OHIO

Applicant Name _____
Facility Name _____
Date of Observation _____

Please place a mark in the column that most accurately describes the student's behavior while observing at your facility.

The applicant:	Yes	No	Comments
Was prompt and on time for their observation appointment			
Dressed appropriately (professional attire including business casual. No jeans, T-shirts, tennis shoes, open toe shoes, flip-flops, or sweat/yoga pants)			
Properly groomed and displayed good hygiene			
Arrived with completed observation paperwork			
Communicated with staff appropriately (eye contact, tone of voice, content)			
Used language appropriate for a healthcare setting			
Followed instructions when given and was respectful			
Maintain confidential information			
Exhibited friendliness and a positive attitude			
Demonstrated interest in radiography			
Demonstrated body language that showed interest and enthusiasm in radiography			
Did not use cell phone during observation hours			
Was appreciative to staff for their observation experience			

Signature of Evaluator _____

Date _____

***This is a sample only. The clinical sites have copies of this form.**

Radiologic Technology Essay Guidelines

The perspective RADT student, as part of the application process, is required to submit a typed 3-4 page paper addressing the questions identified below. The format will follow APA guidelines and be double spaced, 12 point Times New Roman font. A grading rubric will be used to evaluate the responses. **Appropriate references and citations are required. Plagiarism will not be tolerated and if suspected, the applicant's file may be eliminated from the admissions process.** Students should make use of the free writing tutor in The Learning Center, if so desired. The paper needs to be placed into the student's application folder as addressed on page 14 of this document. If the applicant so desires, after completion of the questions, he or she may add a personal statement to the end of the paper.

Questions:

1. What is a radiographer and what are some specific duties of a radiographer?

2. What qualities or characteristics do you feel are essential for a professional team member in the healthcare setting?

3. Identify three (3) career goals that you wish to accomplish over the next five years and corresponding action plans?

4. How does the didactic educational experience correlate to clinical educational experience?

5. Identify at a minimum of three (3) professional organizations directly related to diagnostic radiology and describe their relationships to the profession.

Written Essay Rubric

Question	Exceeded Expectations (2 points)	Met Expectations (1 point)	Did Not Meet Expectations (0 points)
1. What is a radiographer and what are some specific duties of a radiographer?			
2. What qualities or characteristics do you feel are essential for a professional team member in the healthcare setting?			
3. Identify three (3) career goals that you wish to accomplish over the next five years and corresponding action plans?			
4. How does the didactic educational experience correlate to clinical educational experience?			
5. Identify at a minimum of three (3) professional organizations and describe their relationships to the profession of radiologic technology.			
APA Citation			

Radiologic Technology
Admission Calculation Form

Name _____ Total _____

I. High School Math and Science Grades

Overall GPA

GED: 2 pts
2.5-2.99: 2 pts
3.0-3.49: 4 pts
3.5-3.99: 6 pts
4.00+ : 8 pts

Course

Algebra	_____
Algebra II	_____
Adv Math	_____
Biology I	_____
Biology II	_____
A&P	_____
Chemistry	_____
Physics	_____
Total	_____

A = 5
B = 3
C = 1

Total Section I _____

II. College Math and Science Grades

Overall GPA

2.5-2.99: 6 pts
3.0-3.49: 8 pts
3.5-3.99: 10 pts
4.00+ : 12 pts

Course

MATH 1650	_____ (or MATH 1340)
BIOL 2400	_____
BIOL 2410	_____ (1/2 score)
BIOL 2420	_____
BIOL 2430	_____ (1/2 score)
HLTH 1210	_____
RADT 1010	_____

A = 6
B = 4
C = 2

Total Section II _____

Higher of Section I/II _____

III. College General Education Courses

Course

ENGL 1500 _____ A = 3
ENGL Elec _____ (2500 or 2800) B = 2
COMM Elec _____ (1220 or 2610) C = 1
SOC 2060 _____
BMCA Elec _____ (1010, 1020, or 1050)
HLTH 1050 _____
HLTH 1500 _____
HLTH 1730 _____

Section III _____

IV. Health Occupations Aptitude Exam Score

Section IV _____

<u>HOAE Score</u>	<u>ACT Score</u>	<u>Points</u>
90-100	25-26	10
80-89	24	9
70-79	23	8
60-69	22	7
50-59	21	6

V. Clinical Observation Evaluations - averaged (up to 2 points)

Section V _____

VI. Research Questions – (up to 12 points – see rubric)

Section VI _____

VII. Relevant Experience/Certifications

Health related = 5 pts

Section VII _____

VIII. Current GXMO license/certificate = 7 pts

Section VIII _____

IX. Previous Degree

Associate 1 pt
Bachelor 2 pts
Master 4 pts

Section IX _____

X. Applied to RADT program previously – 1 pt
(met requirements)

Section X _____

Total _____

RADIOLOGIC TECHNOLOGY

Health Pathway

Introduction

The Radiologic Technology Health Core curriculum allows students to take math, English, and science courses which apply to the Radiologic Technology Associate of Applied Science degree. Students can also choose to complete courses for the Associate of Science (ASCI). Students should understand that superior performance in these courses will increase the strength of the application to Radiologic Technology while poor performance (D's or F's) will decrease the likelihood of admission to Radiologic Technology. In any case, enrollment in the Radiologic Technology Health Core curriculum does not guarantee acceptance to the Radiologic Technology program. Admission to the Radiologic Technology program is competitive, so admission standards actually depend upon applications received each year. Courses in the Health pathway curriculum, however, will also better prepare students to enter the other Health Technologies offered at Zane State College.

Applicants to the Radiologic Technology program are evaluated based upon their academic achievement as of January of the application year. Thus, performance in courses taken previously is evaluated in the application process. **Courses in which the student is currently enrolled in at the time of application will not be evaluated.**

Accuplacer Test

The first step in entering the Health pathway is to take the Zane State College Accuplacer Test for English and Math. This test will determine the level of English and math at which the student must begin. Arrangements to take the Accuplacer Test are made by contacting the The Testing Center at 740-588-1227.

Math

Since the RADT curriculum requires the student be prepared to enter at least MATH 1650, Statistics, math preparation is critical. Depending upon the Accuplacer Test results, the student should take the following math courses in sequence.

MATH 0995 with MATH 0996

MATH 1650 and MATH 1651. MATH 1651 might be optional, depending upon course scores.

English and Communications

Since the RADT curriculum requires the student be prepared to enter at least ENG 1500, English preparation is also important. Depending upon the Accuplacer Test results, the Health Core student should take the following courses in sequence.

ENGL 0980 ENGL 0990 ENGL 1500 ENGL 2500

Science

The following science courses may be taken once the student is prepared to enter college level work. If the student has not demonstrated a C or better in at least high school level AP (Honors) Biology within the past three years, BIOL 1210 should be taken prior to BIOL 2400 and BIOL 2410.

BIOL	1210	General Biology I
BIOL	2400	Anatomy and Physiology I
BIOL	2410	Anatomy and Physiology I Laboratory
BIOL	2420	Anatomy and Physiology II
BIOL	2430	Anatomy and Physiology II Laboratory
HLTH	1210	Medical Terminology

General

The computer literacy requirement can be accomplished in multiple ways. Students can take BMCA 1010, BMCA 1020, BMCA 1050, or pass the proficiency exam. This course will enable the student to use the personal computer to perform assignments for other college classes. SOCI 2060 is a required social science course.

STUDENT PREGNANCY

The student has a right to privacy and confidentiality. By that right, a student is not required to inform RADT faculty of pregnancy or the intent to become pregnant. However, exposure of a fetus to radiation has significant risks. Such risks include skeletal deformities, mental retardation, spontaneous abortion, and childhood malignancy. All students receive basic radiation protection instruction during the first clinical semester of the program. As a means of protection, the pregnant student is expected to protect herself in the presence of ionizing radiation through the use of maximized distance, maximized shielding, and minimized time spent in the presence of ionizing radiation.

Written disclosure of pregnancy is voluntary, however, it is strongly encouraged that the pregnant student discuss her situation with the Program Director so that additional and maximum protection measures can be explained and implemented. These measures will include the ordering of a fetal dosimeter to be worn at the waist and possibly changing the clinical rotation schedule to minimize fetal dose of radiation. The student has the following options:

Option #1: Continue as a student without any interruption.

Option #2: Continue as a student with deferral of fluoroscopy, surgery, and portable rotations until as determined by student. Any missed rotations must be made up.

Option #3: Request a leave of absence not to exceed one year.

Option #4: Withdraw from the program and reenter at a later date upon completion of the pregnancy. All procedures for readmission will apply upon withdrawal from the program.

The pregnant student may choose to withdraw her voluntary disclosure of pregnancy at any time in writing. In the event that the student delivers during the academic semester, additional weeks of Practicum may be added to compensate for any time taken. As established by the N.C.R.P. report #116, the dose equivalent limit to the fetus is 0.5 rem/gestation.

It is the student's responsibility to maintain didactic assignments to the satisfaction of the instructors involved. This may require that the student repeat courses missed during the maternity leave, which could lead to additional time for course completion. Any questions regarding the pregnant student's responsibilities should be directed to the Program Director.

Purpose of Program

The Radiologic Technology program offered by Zane State College is designed to prepare students for careers as imaging professionals. Through didactic and clinical learning experiences, the program provides opportunities for students to develop clinical competency while striving for professional excellence.

This associate degree program is a career oriented college-level technology consisting of classroom, laboratory, and clinical experience. The curriculum includes communications, sociology, college algebra, anatomy and physiology, physics, medical, and radiography courses. Upon completion of this program the graduate will be able to assist the radiologist in the detection, diagnosis, and treatment of diseases and injuries through the use of x-ray. They will also take routine and special x-rays (radiographs) while maintaining radiation protection. Additional duties may involve research, administration, and record keeping at the physician's discretion. Graduates of this program will be eligible to take the examination for certification and registration prepared by the American Registry of Radiologic Technologists.

Employment opportunities for qualified radiologic technologists exist in hospitals, clinics, physician's offices, government agencies, equipment manufacturers, research facilities, and colleges and universities.

Program Goals and Student Learning Outcomes

- A. Demonstrate clinical competency.
 - 1. Students will display radiation protection.
 - 2. Students will exhibit patient care skills.
 - 3. Students will demonstrate radiographic positioning skills.
- B. Demonstrate problem solving and critical thinking skills in radiography.
 - 1. Students will perform radiographic procedures on non-routine or trauma patients.
 - 2. Students will critique radiographic images.
 - 3. Students will provide corrective action for suboptimal diagnostic radiographic images.
- C. Exhibit professional interpersonal communication skills.
 - 1. Students will demonstrate effective written communication skills.
 - 2. Students will demonstrate effective oral communication skills.
 - 3. Students will demonstrate effective communication in the clinical setting.
- D. Demonstrate the value of professionalism by supporting the Code of Ethics and lifelong learning.
 - 1. The student will discern ethical behavior.
 - 2. The student will demonstrate professionalism in the clinical setting.
- E. Program Effectiveness Measures.
 - 1. The graduate will pass the ARRT certification exam on the first attempt (five year average).
 - 2. The graduate will acknowledge satisfaction with the Radiologic Technology Program.
 - 3. The graduate will perform competently as an entry level radiographer.
 - 4. The graduate will be employed within six to twelve months following graduation (five year average).
 - 5. Students will successfully complete the Radiologic Technology Program.
 - 6. Students will achieve a score that meets or exceeds the national average.

Program Effectiveness Data can be found on the Radiologic Technology webpage at www.zanestate.edu.

SAMPLE RADIOGRAPHER JOB DESCRIPTION

Summary: Under the direction of a radiologist, the radiographer is concerned with the proper operation of x-ray equipment and preparation of patients for various types of diagnostic procedures. Upon request of a physician, the radiographer exposes an x-ray image receptor to produce radiographs of internal parts of the body. These radiographs may reveal evidence of disease, injury, or other significant medical information.

Significant Duties

1. Performs diagnostic radiographic services.
 - A. Operates imaging equipment.
 - B. Operates other equipment/devices as appropriate.
 - C. Positions patients.
 - D. Immobilizes patients as necessary.
 - E. Calculates exposure factors.
 - F. Practices radiation protection.
 - G. Evaluates radiographs for technical quality.
 - H. Assumes care for physical and psychological needs of patient during examinations and procedures.
 - I. Practices aseptic technique as necessary.
 - J. Assists with administration of contrast media.
 - K. Assists physician with imaging procedures.
 - L. Initiates life support measures for patients, if necessary.
2. May be required to work a variety of work shifts (i.e., 7 a.m.-3 p.m., 3-11 p.m., or 11 p.m.-7 a.m.) during the week or weekend.
3. May be required to work weekend shifts and holidays.
4. Maintains patient records.
5. Assumes responsibility for assigned area.
6. Provides input for equipment and supply purchase decisions.
7. Instructs specific units of didactic and/or clinical education, in the radiography program, if applicable.
8. In the absence of a supervisor, assumes acting supervisory responsibility.
9. Assumes responsibility for portions of the quality assurance program.
10. Pursues ongoing continuing education.
11. May control inventory and purchase of supplies for assigned areas.
12. May be responsible for the supervision and evaluation of student technologists.

Qualifications

1. Graduate of Joint Review Committee on Education in Radiologic Technology (JRCERT) accredited Radiography Program, or equivalent.
2. Certification by the American Registry of Radiologic Technologists or equivalent.
3. Competency in components of radiography practice as appropriate.
4. Valid state license, if applicable.



Radiologic Technology (RADT) Course of Study 2019-2020

Summer Session I				
Course ID	Course Name	T/B/G	Credits	Ck off
BIOL 2400	Anatomy and Physiology I	G	3	
BIOL 2410	Anatomy and Physiology I Lab	G	1	
ENGL 1500	Composition I	G	3	
FYEX 1010	First Year Success Strategies	B	1	
HLTH 1210	Medical Terminology	B	2	
RADT 1010	Patient Care in Medical Imaging	B	3	
Total:			13	

Fall I				
Course ID	Course Name	T/B/G	Credits	Ck off
BIOL 2420	Anatomy and Physiology II	G	3	
BIOL 2430	Anatomy and Physiology II Lab	G	1	
MATH 1650	Statistics	G	3	
RADT 1015	Directed Practice I	T	2	
RADT 1230	Radiographic Procedures I	T	4	
Total:			13	

Spring I				
Course ID	Course Name	T/B/G	Credits	Ck off
ENGL 2500	Composition II	G	3	
RADT 1050	Radiation Equipment and Protection	T	3	
RADT 1100	Directed Practice II	T	2	
RADT 1250	Radiographic Procedures II	T	4	
SOCI 2060	Race and Ethnicity	G	3	
Total:			15	

Curriculum Summary: General (G)/Basic (B) = 31 Hours

Technical (T) = 35 Hours

Total Curriculum Hours = 66

Summer Session II				
Course ID	Course Name	T/B/G	Credits	Ck off
RADT 2020	Radiographic Pathology	B	2	
RADT 2400	Directed Practice III	T	2	
	*Communication Elective	G	3	
Total:			7	

Fall II				
Course ID	Course Name	T/B/G	Credits	Ck off
RADT 2030	Radiobiology/Radiation Protection	T	2	
RADT 2040	Image Production and Evaluation	T	3	
RADT 2250	Sectional Anatomy and Imaging Modalities	T	2	
RADT 2500	Directed Practice IV	T	3	
Total:			10	

Spring II				
Course ID	Course Name	T/B/G	Credits	Ck off
RADT 2100	Radiographic Image Analysis	T	2	
RADT 2110	Medical Imaging Ethics and Law	T	1	
RADT 2600	Directed Practice V	T	3	
RADT 2990	Preparation for Role Transition	T	2	
Total:			8	

NOTE: Students must complete the computer literacy requirement in order to graduate which may be met through competency testing or completion of a program specific computer course. Refer to the degree audit and consult with the program advisor for the appropriate course(s) that meet the computer literacy requirement.

***ADDITIONAL INFORMATION ON REVERSE**

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Communication Electives		
COMM 1220	Interpersonal Communication	3
COMM 2610	Public Speaking	3