

**WEBER STATE UNIVERSITY  
RADIOLOGIC SCIENCES  
3925 UNIVERSITY CIRCLE  
OGDEN, UTAH 84408-3925**

Dear Prospective **Outreach Radiologic Technology** Student:

We are pleased to hear of your interest in pursuing Radiologic Technology as a career. To apply to the WSU OUTREACH Radiologic Technology Program, please do the following by the **January 10th** deadline:

1. Complete four years of high school or its equivalent;
2. Complete pre-Radiologic Technology courses (these may be taken at any accredited college or university); **equivalent courses may be obtained by calling (801) 626-7136;**
3. Submit all college/university transcripts to the **Dr. Ezekiel R. Dumke College of Health Professions Office of Admissions and Counseling (not to the WSU Admissions Office);**
4. Complete the Radiologic Technology Application form enclosed;
5. Submit three Personal Reference Forms (forms enclosed); and
6. Be accepted as a student in good standing at Weber State University and declare your major as Radiography Applicant (Computer Code **2FR**).

Applying to the WSU Radiologic Technology Program is competitive. The program usually receives two or three applications for every available position; therefore, be advised:

- \* it is **YOUR** responsibility to see that all of the above-listed materials have been received by the Dr. Ezekiel R. Dumke College of Health Professions Admissions and Counseling Office--files which are incomplete will not be reviewed;
- \* demonstrate ability to achieve scholastically; and
- \* applicants with files which are not reviewed for the above-listed reasons and who reapply the following year will not receive "reapplicant" status.

You will be contacted regarding the selection procedure for the Outreach Radiologic Technology Program. Applicants are usually notified of their acceptance or non-acceptance into the Radiologic Technology Program by the middle of Spring Semester.

Individuals who have been convicted of, or plead guilty to, or plead nolo contendere to a crime which is either a felony or is a crime of moral turpitude should contact the department prior to making application to determine eligibility for the American Registry of Radiologic Technologist Certification Examination.

Finally, please be advised the textbooks and module expenses for the Radiologic Technology Program are approximately \$900.00 for the two years combined. These expenses do not cover the cost of tuition, supplies, uniforms/lab coats and travel expenses to clinical sites.

For more information, please contact the Dr. Ezekiel R. Dumke College of Health Professions Admissions and Counseling Office in the Marriott Building, Room 108A, (801) 626-7136, 626-6128 (In-state Toll Free: 1-800-350-7042) or the Radiologic Sciences Department at (801) 626-6057.

Thank you for your interest in the Weber State University Outreach Radiologic Technology Program.

**RADIOLOGIC SCIENCES  
WEBER STATE UNIVERSITY  
OGDEN, UTAH 84408-3925  
(801) 626-6057**

In January, 1889, Weber State College was first organized in downtown Ogden as Weber Academy. At the time, it was owned by the Church of Jesus Christ of Latter-day Saints; 95 years later, at a new location and now a state-owned school, the university has grown to be one of the best undergraduate schools in the state and nation. At the present time there are approximately 11,000 full-time students who may choose from over 85 degree areas. Recognized as a leader in the areas of allied health sciences, technology, education and business, Weber State is competent in other aspects of academia. In January, 1991, Weber State College became **Weber State University**.

The Weber State campus is located at the base of the Wasatch Mountains in Ogden, Utah, 35 miles north of Salt Lake City. It is one of the most up-to-date schools in the Intermountain Region with 88% of its buildings constructed since 1960. The beautifully landscaped campus covers 400 acres and has a beauty all its own reflected both in the award winning landscape and in the 60 modern buildings. Construction on a new facility was completed in September, 1995. A highly competent faculty, combined with an extensive library and numerous "hands-on" labs, give the students a chance at a first-rate education. Add to that a vast array of extra-curricular activities and you have a great university!

The Weber State University Radiologic Sciences Cluster of Programs was the recipient of the 1990 Secretary of Education's Award for Outstanding Vocational-Technical Education Programs.

**Accreditation**

Weber State is a member of the American Council on Education and the American Association of State Colleges and Universities and is accredited by the Northwest Association of Schools and Colleges. Being an accredited institution allows the students to apply for federal student loans and grants.

**BACHELOR OF SCIENCE IN HEALTH SCIENCES**

To obtain a baccalaureate degree, the student must complete the WSU General Education requirements, a major and a minor emphasis, a quality assurance course, and RADTEC 4943, Baccalaureate Thesis (3) or equivalent.

A specific curriculum pattern can, with consultation, be tailored to the needs and interests of the student. Successful completion enables the student to graduate with a Bachelor's Degree in Health Sciences.

**SPECIALTY AREAS IN RADIOLOGIC SCIENCES**

<b>Advanced Radiography</b>	<b>Diagnostic Medical Sonography Medical</b>
<b>Quality Management</b>	<b>Diagnostic Medical Sonography Cardiac</b>
<b>Computed Tomography</b>	<b>Mammography</b>
<b>Magnetic Resonance Imaging</b>	<b>Cardiovascular-Interventional Technology</b>
<b>MRI/CT Combination</b>	<b>Bone Densitometry</b>
<b>Nuclear Medicine</b>	<b>Radiology Practitioner Assistant</b>
<b>Radiation Therapy</b>	<b>(Requires five years experience as a RT)</b>

## **Radiologic Sciences**

Address: 3925 University Circle, Ogden, UT 84408-3925

Location: Marriott Health Building, Room 363

Department Telephone: 801-626-6057

Toll Free Telephone: 1-800-848-7770, Option 2, Ext. 6057

Department Chairperson/Professor: Robert J. Walker

Professors: Wynn J. Harrison, Diane M. Kawamura, and Jane Van Valkenburg

Assistant Professor: Nanci L. Saurdiff, M. Diane Newham and Kathy Frye

Department Secretary: Jerri L. Byers 626-6057

Off-Campus Programs Secretary: Aleta Wood 626-6619

Admissions/Counseling: Judith Joy 626-7136 and Rob Holt 626-6128

**Radiologic Sciences** is a medical field that uses ionizing radiation, sound waves and magnetic fields to produce medical images for diagnostic purposes or to treat diseases by combining medical procedures with technology.

### **Radiography**

The program is provided in an integrated manner of didactic instruction and the utilization of on-campus x-ray rooms, darkrooms, and clinical experience in Radiology departments of the affiliated health facilities. During the course of the program, radiologic physics, anatomy, radiographic procedures, positioning, and patient assessment are taught. The student will participate in clinical education within the affiliate health facilities throughout the program.

### **Outreach Radiography Program**

The Weber State University Radiography (X-ray) Outreach Program is designed to provide educational opportunities to students throughout the state of Utah and surrounding states. The program serves the communities in the region with qualified Radiology practitioners from their respective areas for jobs in those areas. The program has been in existence since 1978 and currently serves communities throughout Utah, Northern New Mexico, Eastern Colorado and Western Wyoming.

### **Outreach Radiography Program Delivery**

Once the applicant has successfully completed the application process and has gained entrance into the Outreach Radiography Program, the professional phase of the program is ready to begin. The student registers for University Radiology classes in the Autumn Semester. The Outreach Program provides the same course content and educational experiences as are provided in the on-campus Radiography Program. The educational delivery method is somewhat altered to meet the geographic location of the students. Outreach students meet on campus during the first week of the semester to purchase text materials and participate in the initial courses discussions. Course syllabi and assignments are reviewed and lectures on course content are given. The student returns home to work on assignments and participate in clinical educational experiences at the rate of 24 hours per week at their local affiliated hospital. Approximately two to three weeks later, University faculty travel to a central location near the student's home area for course discussions. Students take examinations through predetermined test proctors and communicate with the faculty via email, telephone, and/or written correspondence during interim class periods. The alternating meeting schedule between campus classes and on-site class sessions occurs throughout the semester. A student may be required to gain a short period of clinical educational experience at a facility along the Wasatch Front depending upon the student's educational needs.

The Outreach and Campus Radiography Programs follow the same University academic calendar and have the same educational requirements. The program runs year round and is designed to be completed within a two-year time frame. Having completed the program, the student is now ready to sit for the national certifying examination and gain employment in their local area or continue their education in a specialty radiology program, if they wish.

The Outreach Radiography Program is designed to provide educational opportunities outside the Wasatch Front and to provide qualified Radiographers in areas throughout the region. This is accomplished at a minimal cost and inconvenience to the student while allowing the student to live in their local community.

## **Radiography**

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

» Program Prerequisite: Complete the prerequisite courses; make application and be accepted to the program (refer to the Admission Requirements below).

» Grade Requirements: Demonstrate ability to achieve scholastically.

» Credit Hour Requirements: A total of 68 credit hours is required for graduation with an A.A.S. degree--18 of these are prerequisite courses, 50 are didactic courses and clinical education courses.

## **Advisement**

Students should meet with the admissions counselor at least annually for course and program review. Call 626-7136 for more information or to schedule an appointment.

## **Admission Requirements**

1. Be accepted to Weber State University and declare major as Radiography Applicant (use this Computer Code for your Major Code: **2FR**)
2. Apply to the Radiography Program for acceptance and follow the procedures as outlined on the program application, which is in addition to the Weber State Admissions Application. The deadline date for applications to be received is January 10 of each year. Student selection is made during Spring semester and those accepted into the program will begin their professional phase of the curriculum in the Autumn semester.
3. Pay the \$20 program application fee.
4. Present a satisfactory high school and/or college(s) transcript (s).
5. The General Education requirements for the AAS Degree must be completed.

Pre-requisite required courses are:

**Eng 1010 Introduction to Writing (3)**  
**Eng 2010 Intermediate Writing (3)**  
**Quantative Literacy - Math (3) (QL 1040 or QL 1050)**

**Psych 1010 Introduction to Psychology (3)**  
**Comm 1050 Interpersonal Communication or other Gen Ed Communication classes**

**\*Hthsci LS1110 Biomedical Core (4)**  
**\*Hthsci 1111 Biomedical Core (4)**

\*If you do not take these two courses, you must take Zool 2100 and 2200 which are Human Anatomy and Physiology, plus an additional class to fulfill the Gen Ed Science requirement.

Most of the Radiologic Technology students continue their education to acquire a bachelor's degree and specialize in an advanced area of Radiology. In preparation for that goal and to help with the selection of appropriate courses to complete the graduation requirements for a B.S. degree, the following courses are suggested to complete your first-year schedule:

**Anthro 2000 Peoples and Cultures of the World (3)**  
**Geront 1010 Intro to Gerontology (3)**  
**Chfam 1500 Human Development (3)**  
**Micro 1113 Intro to Microbiology (3) or Nutri 1020 Foundations of Nutrition (3)**  
**Phsx 1010 Intro to Physics (3) or Geogr 1540 Environmental Geosciences (3)**  
**Chem 1010 Intro to Chem (3)**  
**Quantitative Literacy (Math 1040 or 1050) or COMPASS TEST SCORE OF 65**  
**Computer Literacy (no credit--completion of approved courses or proficiency exam)**  
**American Institutions (Hist 1700 or Polsc 1100 or Econ 1740)**  
**Creative Arts Elective**  
**Humanities Elective**

If you are looking for excellent courses that will help you as a health care provider, you might consider the following non-general education courses:

- Geront 3000 Death & Dying (3)**                      **Geront 3120 Aging: Adapt & Behavior (3)**  
**Geront 3320 Special Populations (3)**            **Geront 4220 Societal Responses to Aging (3)**  
**Psycho 3000 Child Psychology (3)**              **Psych 3010 Abnormal Psychology (3)**  
**Psych 3140 Adolescent/Adult Psych (3)**

**Required Courses:**

RADTEC	1022	Intro to Radiologic Technology	2
RADTEC	1303	Principles of Radiographic Exposure I	3
RADTEC	1502	Radiographic Anatomy & Positioning I	2
RADTEC	1512	Radiographic Anatomy & Positioning II	2
RADTEC	1522	Radiographic Anatomy & Positioning III	2
RADTEC	1532	Radiographic Anatomy & Positioning IV	2
RADTEC	1542	Radiographic Anatomy & Positioning V	2
RADTEC	1601	Laboratory Experience	2
RADTEC	1621	Laboratory Experience	1
RADTEC	1641	Laboratory Experience	1
RADTEC	1661	Laboratory Experience	1
RADTEC	1681	Laboratory Experience	1
RADTEC	2043	Patient Care & Assessment I	2
RADTEC	2272	Basic Sectional Anatomy	2
RADTEC	2403	Principles of Radiographic Exposure II	2
RADTEC	2861	Clinical Radiologic Technology	2
RADTEC	2862-2865	Clinical Radiologic Technology (3 credit hours each)	12
RADTEC	2866	Final Competency Assessment	2
RADTEC	SI3443	Quality Assurance in Radiology	3

**Elective Courses:**

RADTEC	2803	Independent Research	1
RADTEC	2833	Directed Readings	1-2
RADTEC	2913	Comprehensive Review	2
RADTEC	2942	Career Planning and New Technology	2
RADTEC	2992	Seminar	1
RADTEC	DV3003	Psycho-Social Medicine	3
RADTEC	3043	Medical Ethics and Law	3
RADTEC	3403	Radiobiology and Health Physics	3
RADTEC	3463	Computerized Imaging	3

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## Radiography - Two Year Program

All courses are subject to change without prior notification.

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### AUTUMN SEMESTER, FIRST YEAR

RADTEC 1022	Introduction to Radiologic Technology . . . . .	2
RADTEC 1303	Principles of Radiographic Exposure I . . . . .	3
RADTEC 1502	Radiographic Anatomy and Positioning I* . . . . .	2
RADTEC 1601	Laboratory Experience* . . . . .	2
RADTEC 2861	Clinical Education . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>12</b>
<b>Tuition with *Lab Fees . . . . .</b>		<b>\$1,328</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$549.10</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$134.50</b>

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### SPRING SEMESTER, FIRST YEAR

RADTEC 1512	Radiographic Anatomy and Positioning II* . . . . .	2
RADTEC 1621	Laboratory Experience* . . . . .	1
RADTEC 2043	Patient Care and Assessment I* . . . . .	2
RADTEC 2403	Principles of Radiographic Exposure II . . . . .	2
RADTEC 2862	Clinical Education . . . . .	3
RADTEC 3003	Psycho-Social Medicine . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>13</b>
<b>Tuition with *Lab Fees . . . . .</b>		<b>\$1,338</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$136.80</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$76.50</b>

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### SUMMER SEMESTER, FIRST YEAR

RADTEC 1522	Radiographic Anatomy and Positioning III* . . . . .	2
RADTEC 1641	Laboratory Experience* . . . . .	1
RADTEC 2833	Directed Readings . . . . .	1
RADTEC 2863	Clinical Education . . . . .	3
RADTEC 2942	Career Planning and New Technology . . . . .	2
RADTEC 3043	Medical Ethics and Law . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>12</b>
<b>Tuition with *Lab Fees . . . . .</b>		<b>\$1,330</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$60.95</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$51.00</b>

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### AUTUMN SEMESTER, SECOND YEAR

RADTEC 1532	Radiographic Anatomy and Positioning IV* . . . . .	2
RADTEC 1661	Laboratory Experience* . . . . .	1
RADTEC 2272	Basic Sectional Anatomy . . . . .	2
RADTEC 2864	Clinical Education . . . . .	3
RADTEC 3403	Radiobiology and Health Physics . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>12</b>
<b>Tuition with *Lab Fees . . . . .</b>		<b>\$1,330</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$49.05</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$40.50</b>

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### SPRING SEMESTER, SECOND YEAR

RADTEC 1542	Radiographic Anatomy and Positioning V* . . . . .	2
RADTEC 1681	Laboratory Experience* . . . . .	1
RADTEC 2833	Directed Readings . . . . .	1
RADTEC 2865	Clinical Education . . . . .	3
RADTEC 2992	Seminar . . . . .	2
RADTEC 3443	Quality Assurance in Radiology* . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>12</b>
<b>Tuition with *Lab Fees . . . . .</b>		<b>\$1,343</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$42.65</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$45.75</b>

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### SUMMER SEMESTER, SECOND YEAR

RADTEC 2866	Final Competency Evaluation . . . . .	2
RADTEC 2913	Comprehensive Review . . . . .	2
RADTEC 3463	Computerized Imaging . . . . .	3
<b>Total Semester Credits . . . . .</b>		<b>7</b>
<b>Tuition (no lab fees) . . . . .</b>		<b>\$924</b>
<b>Estimated Textbook Cost . . . . .</b>		<b>\$34.15</b>
<b>Estimated Module Cost . . . . .</b>		<b>\$43.75</b>

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Core and General Education Prerequisites Must be Completed Prior To Starting Program

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## RADIOLOGIC TECHNOLOGY COURSE DESCRIPTIONS

### RADTEC:

- 1022 Introduction to Radiologic Technology - Program orientation, elementary radiation protection and basic darkroom procedures. (2)
- 1303 Principles of Radiographic Exposure I - Theory of x-ray production; image production and radiographic equipment. (3)
- 1502 Radiographic Anatomy and Positioning I - Terminology, pathology and radiographic positioning. (2)
- 1512 Radiographic Anatomy and Positioning II - Continuation of RADTEC 1502. (2)
- 1522 Radiographic Anatomy and Positioning III - Continuation of RADTEC 1512. (2)
- 1532 Radiographic Anatomy and Positioning IV - Continuation of RADTEC 1522. (2)
- 1542 Radiographic Anatomy and Positioning V - Continuation of RADTEC 1532. (2)
- 1601 Laboratory Experience - Patient positioning, darkroom experience and radiographic review. (1)
- 1621 Laboratory Experience - Continuation of RADTEC 1601. (1)
- 1641 Laboratory Experience - Continuation of RADTEC 1621. (1)
- 1661 Laboratory Experience - Continuation of RADTEC 1641. (1)
- 1681 Laboratory Experience - Continuation of RADTEC 1661. (1)
- 2043 Patient Care and Assessment I - Patient care and management in radiology. (3)
- 2263 Diagnostic Services Pharmacology I - Fundamental principles of pharmacology, medication and contrast administration in radiology. (3)
- 2271 I.V. Therapy in Medical Imaging - Venous injection techniques, care of IV therapy sites and medications, differences in contrast media, precautions and symptoms of a reaction and follow-up patient care. (1)
- 2403 Principles of Radiographic Exposure II - Radiographic imaging, instrumentation, image production and factors affecting radiologic quality. (3)
- 2803 Independent Research - Individualized projects. (1-3)
- 2833 Directed Readings - Selected readings and a research project on radiographic procedures and technologies. (3)

- 2861 Clinical Education - Experience gained in a health care facility. (3)
- 2862 Clinical Education - Continuation of RADTEC 2861.(3)
- 2863 Clinical Education - Continuation of RADTEC 2862.(3)
- 2864 Clinical Education - Continuation of RADTEC 2863.(3)
- 2865 Clinical Education - Continuation of RADTEC 2864.(3)
- 2866 Clinical Education - Continuation of RADTEC 2865.(3)
- 2913 Comprehensive Review - Review of didactic and clinical applications. (3)
- 2942 Career Planning and New Technology -  
An introduction to specialized imaging modalities and new or future imaging procedures. (2)
- 2992 Seminar - Patient case studies and critical care situations. (2)
- 3003 Psycho-Social Medicine - Study of professional interrelationships with patients, peers and supervisors. (3)
- 3043 Medical Ethics and Law - Medical ethics and law and case studies in medical imaging and radiation therapy. (3)
- 3403 Radiobiology and Health Physics - Effects of ionizing radiation on the human body, patient and personnel protection, exposure monitoring, health physics and oncology. (3)
- 3443 Quality Assurance in Radiology - Development of a quality assurance program and manual to meet accreditation requirements.
- 3463 Computerized Imaging - Processing of digital images in specialized radiographic procedures, three dimensional imaging and computerized management practice. (3)