

## Associate of Applied Science in Radiological Sciences

Radiological technologists are healthcare professionals who use specialized X-Ray equipment to create images of structures inside the human body. They must be able to interact with people who range from healthy to critically ill. Technologists are supervised by board certified radiologists. This course is designed to prepare the student to perform clinical examinations of the human body with special consideration to image production, quality control, signal to noise ratio and basic pulse sequences. Graduates will be able to obtain employment in orthopedic clinics, diagnostic imaging clinics, and hospitals.

### Admissions requirements:

- All potential students must receive a school catalog prior to signing an enrollment agreement
- Student must attend entrance orientation
- A high school diploma or its equivalency is required for admission into the program
- Prospective students must complete a successful interview with an intake (admissions) counselor
- Prospective students must submit an AAS Radiology Admissions Application
- Applicant must be at least 17 years of age (applicants under the age of 18 require written permission from a parent or legal guardian in order to enroll.)
- Applicants must take and pass an institutional HESI entrance exam with a minimum of 70%. Non-Refundable exam fee is \$45.00 dills
- Applicants must be a graduate of Southwest University AAS Allied Health Program. (Tuition and Program length for these programs are in addition to the cost for this program; please refer to the institutional catalog for program specific tuition costs).

<u>Allied Health Program</u>	<u>Allied Health Program Tuition and Fees Cost</u>	<u>Adjusted Tuition and Fees (Includes transfer credits)</u>	<u>Tuition and Fees (including all adjustments)</u>	<u>Total Additional Program length</u>
<u>Medical Assistant</u>	<u>\$17,781</u>	<u>\$36,281</u>	<u>\$54,062</u>	<u>22 Terms</u>
<u>Associate in Applied Science in Medical Assistant</u>	<u>\$28,035</u>	<u>\$34,657</u>	<u>\$62,692</u>	<u>24 Terms</u>
<u>Associate in Applied Science in Medical Coding and Billing</u>	<u>\$31,457</u>	<u>\$35,821</u>	<u>\$67,278</u>	<u>26 Terms</u>
<u>Associate in Applied Science in Health Administration</u>	<u>\$30,451</u>	<u>\$35,108</u>	<u>\$65,559</u>	<u>26 Terms</u>

**General Criteria:** Applicants for specialized admissions must satisfy minimum criteria in order to be eligible for consideration for ranking. The Following is required for all students wishing to enroll the program:

- Must be a graduate of an SU AAS Allied Health Program or a SU BS program
- Must have earned a minimum SU cumulative GPA of 3.5, an attendance rate of 90% and no write ups are required.
- The following is required for all outside students wishing to enroll the program: Baccalaureate in Science and Minimum cumulative GPA of 3.0 (Transcript is required for academic review)

Students must complete admissions requirements prior to enrollment in specialized courses. There is a scheduled ranking date for this program. It is ultimately the student's responsibility to submit all required documentation to allow for normal processing.

<b>Total Lab Hours:</b>	<b>80 Hrs</b>
<b>Total Externship Hours:</b>	<b>1050 Hrs</b>
<b>Total Lecture Hours:</b>	<b>1330 Hrs</b>
<b>Total Program Hours:</b>	<b>2460 Hrs</b>
<b>Total Length of Time:</b>	<b>96 Weeks</b>
<b>Total Credit Hours:</b>	<b>172.0Credits</b>

**Definition of Academic Year:** An academic year will consist of 30 instruction weeks and 36 quarter credit hours.

**Full Time Status:** Student's enrollment status will be considered full time if student is enrolled in at least 8.0 credit hours in a six week period.

**Program Delivery: Blended** (*Residential and Online, please see marked classes*) The program content is offered through lecture, laboratory, and externship experience. (certain lecture and/or laboratory courses may be delivered online, those courses are identified as blended, below)

### **ALG 110 ALGEBRA I**

This course is designed to provide understanding of basic properties of real numbers and to use algebraic models to solve verbal problems with linear and quadratic equations, complex numbers, factoring and graphs. Emphasis is placed on manipulation of algebraic equations, problem solving and their correlation to general arithmetic.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **AAIP 101 ADVANCED ANATOMY FOR IMAGING PROFESSIONALS**

This course is designed to establish a knowledge base in the systems of the human body. The course content describes and discusses in specific detail the various functions of biological systems within the human body. The course introduces concepts relating to tissue, cells and organ systems. Anatomy is heavily emphasized, and individual class sessions often concentrate on specific parts of the body. Beginning human physiology covers the mechanisms sustaining human life and addresses each system's specific function, health issues, pathologies, diagnostics and disease prevention.

**Clock hours of lab: 20**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 60**

**Tuition: \$1150.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	1.0
Ext	0.0

**TOTAL = 5.0 Qtr Hr**

### **AP 145R ANATOMY AND PHYSIOLOGY I**

This course provides systemic and functional review of human gross anatomy and systematic anatomy in order for students to obtain the knowledge required in the allied health professions. Students will learn the major gross—anatomical and systematic anatomy structures and functions / interactions of the different (organ) systems as well as the related terminology. The course will also introduce students to basic diagnostic images of gross-anatomical and systematic

anatomy structures, as well as basic physiology, common diseases & treatments, and diet and nutrition. Apart from giving students an introduction to the body and its organ systems, this course will primarily focus on the clinical anatomy as it pertains to the appendicular skeletal system (upper and lower limbs), muscular system, and nervous system.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 50**

**Tuition: \$1035.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	0.5
Ext	0.0

**TOTAL = 4.5 Qtr Hr**

### **AP 147R ANATOMY PHYSIOLOGY II**

This course provides a systemic and functional review of human gross anatomy and systematic anatomy in order for students to expand the knowledge acquired in the Anatomy & Physiology I course. Students will learn the major gross— anatomical and systematic anatomy structures and functions / interactions of the different (organ) systems as well as the related terminology. The course will also introduce students to basic diagnostic images of gross-anatomical and systematic anatomy structures, as well as basic physiology, common diseases and treatments. This course will primarily focus on the clinical anatomy as it pertains to the thorax, abdomen, pelvis & perineum.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: AP 145R**

**Total Clock Hours: 50**

**Tuition: \$1035.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	0.5
Ext	0.0

**TOTAL = 4.5 Qtr Hr**

### **BC 110: BUSINESS COMMUNICATION**

This course examines basic interpersonal communication processes with practical applications for the business environment. Issues regarding cross-cultural communications and ethical considerations in business communication are discussed. The course will emphasize planning, organizing and delivering oral presentation in business setting.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **BIO 101 BIOLOGY I**

This course is designed to provide the students with the foundation and knowledge of biology in brief investigations of all major facets of living organisms including cell structure and function, major kingdoms of organisms, selected topics in human anatomy, physiology, genetics, reproduction, evolution, and biochemistry. In addition, ecological principles and conservation will be stressed throughout the course.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **ENGL 145 TECHNICAL WRITING**

This course will teach students how to communicate clearly and effectively, changing writing style and content for varying audiences and purposes. The course will focus on meeting readers' needs while representing the interests of your employer. The assignments will cover a variety of tasks produced under different circumstances.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **HC 115R HEALTHCARE VOCABULARY I**

This course provides in-depth medical terminology information including Greek and Latin derivations, prefixes, suffixes, root words, and combining forms. It provides practice in building and defining medical terms, and emphasizes correct spelling and pronunciation of medical words. Interpreting terminology related to body structure, disease,

diagnosis, and treatment is emphasized along with medical abbreviations.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 50**

**Method of Delivery: Blended**

**Tuition: \$1035.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	0.5
Ext	0.0

**TOTAL = 4.5 Qtr Hr**

### **HC 120R HEALTHCARE VOCABULARY II**

This course is a continuation of HC 115 and provides in-depth medical terminology information including Greek and Latin derivations, prefixes, suffixes, root words, and combining forms. It provides practice in building and defining medical terms, and emphasizes correct spelling and pronunciation of medical words. Interpreting terminology related to body structure, disease, diagnosis, and treatment is emphasized along with medical abbreviations.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: HC 115R**

**Total Clock Hours: 50**

**Tuition: \$1035.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 4.5 Qtr Hr**

### **HC 135 HEALTHCARE ETHICS**

The student will learn the application of legal principles, policies, regulations, and standards for the control and use of information as it applies to various areas of employment. Students will learn the proper release of information, ethical codes, confidentiality, humanistic healthcare, legal terminology, legal judgments, documents, and litigation terms. In class, the student will apply this knowledge through discussion of ethical dilemmas, conferencing, and analysis of legal situations.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 101: INTRODUCTION TO COMPUTERS**

Participants are introduced to the Microsoft Office program suite, including Excel for spreadsheets and Word for word processing. Content includes creating, saving, retrieving, editing, formatting, enhancing, printing, and merging a variety of documents.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Method of Delivery: Blended**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture 3.0

Lab 0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 1100: CLINICAL PRACTICE**

Content and clinical practice experiences should be designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 50**

**Tuition: \$1035.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture 4.0

Lab 0.5

Ext 0.0

**TOTAL = 4.5 Qtr Hr**

### **ISC 1301: SECTIONAL ANATOMY I**

This course is the study of cross-sectional normal with normal anatomical variants. The course will demonstrate and educate the student on the correlation of the study of cross-sectional anatomy. In this course, students will explore in-depth study of human anatomy in sagittal, coronal, transverse, and orthogonal sections essential to current techniques in diagnostic imaging. This course content will include an introduction to cross sectional anatomy, cranium and facial bones, brain, neck and spine.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture 3.0

Lab 0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 1302: SECTIONAL ANATOMY II**

This course is a continuation of ISC 1301. This course is the study of cross-sectional normal with normal anatomical variants. The course will demonstrate and educate the student on the correlation of the study of cross-sectional anatomy. In this course, students will explore in-depth study of human anatomy in sagittal, coronal, transverse, and orthogonal sections essential to current techniques in diagnostic imaging. This course content will include the thorax, abdomen, pelvis, upper and lower extremities.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: ISC 1301**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture 3.0

Lab 0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 1400: DIGITAL IMAGE AND DISPLAY**

This course provides a comprehensive overview of digital imaging acquisition, PACS, RIS and the electronic medical. The subjects are formatted in individual outlines and can be sequenced according to level of knowledge desired. The course includes basic principles of digital imaging, digital image acquisition, PACS, RIS and the EMR. The course will include digital imaging quality control and the importance of formulating a QA management program.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture 3.0

Lab 0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 1500: FUNDAMENTALS OF IMAGING SCIENCES**

The course content is designed to provide an overview of the foundations in the imaging sciences and the practitioner's role in the health care delivery system. Principles, practices and policies of the health care

organization(s) are examined and discussed in addition to the professional responsibilities of the imaging professional. The course will include development of critical thinking skills as well as the transition from classroom to clinical environment. The course will discuss current legal and ethical situation as it pertains to medical imaging.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **ISC 1600: PATIENT CARE IN IMAGING SCIENCES**

The content for this course is designed to provide the basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions. The role of the imaging professional in patient education is identified. The course provides laboratory instruction in basic patient care procedures as well as beginning practical clinical experience in a radiology department. The following topics will be explored, infection control, isolation procedures, aseptic technique, sterile procedures, vital signs, chest tubes, various lines, patient transfer techniques, patient interactions, history taking and patient safety protocols.

**Clock hours of lab: 10**

**Clock hours of classroom lecture: 40**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 50**

**Tuition: \$1035.00**

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	0.5
Ext	0.0

**TOTAL = 4.5 Qtr Hr**

### **ISC 1700: PHARMACOLOGY AND DRUG ADMINISTRATION**

Content is designed to provide basic concepts of pharmacology. The theory and practice of basic techniques of vein punctures and administration of diagnostic contrast agents and/or intravenous medications is included. The appropriate delivery of patient care during these procedures is emphasized. The course will include contrast media utilized in the imaging sciences including Ionic, non-ionic, barium sulfate, gadolinium, water soluble, positive, negative

and newer agents. The course will discuss possible adverse reactions to contrast agents utilized in the imaging sciences. Discussion regarding adverse reactions to contrast as well as patient emergency preparedness will be included.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **PSY 110: INTRODUCTION TO GENERAL PSYCHOLOGY**

This course will describe the basic theories, principles, and concepts of psychology as they relate to behaviors and mental processes. This course will also apply psychological theories, principles, and concepts to everyday life, including industry and organizations. The students will learn to compare and contrast material and information from other cultures.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1001: IMAGE ANALYSIS I**

The course content is designed to provide a basis for analyzing radiographic images. Included are the importance of minimum imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis. Topics in this course will include guidelines for image analysis, Introduction to digital radiography image analysis, image analysis of the chest, abdomen, shoulder, and lower extremities.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0

Ext 0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1002: IMAGE ANALYSIS II**

This course is a continuation of RADS 1001. The course content is designed to provide a basis for analyzing radiographic images. Included are the importance of minimum imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis. Topics in this course will include exposure technique factors and selection, scatter control, and fluoroscopy.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1001**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1101: PRINCIPLES OF RADIOGRAPHIC IMAGING I**

This course is the first of six Radiographic Principles courses. The course content will include discussion relative to radiation concepts, electricity, electromagnetism, basic radiographic x-ray equipment and the x-ray tube. The course will provide discussion relative to the discovery of x-rays and x-ray properties. The course will include the relationship between current, potential difference and resistance in a circuit known as Ohm's law.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1102: PRINCIPLES OF RADIOGRAPHIC IMAGING II**

This course is the second of six Radiographic Principles courses and a continuation of RADS 1101. The course content will include discussion relative to X-ray production, imaging filtration, mA, mAs, kVp, distance, image quality factors, x-ray interactions with matter and beam restrictions and beam restriction

devices. The course will detail the relationship between the prime factors as they relate to image quality.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1101**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1103: PRINCIPLES OF RADIOGRAPHIC IMAGING III**

This course is third of six Radiographic Principles courses and a continuation of RADS 1102. The course content will include discussion relative to the principles of photon attenuation, imaging through pathologic processes and radiographic grid devices.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1102**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1104: PRINCIPLES OF RADIOGRAPHIC IMAGING IV**

This course is fourth of six Radiographic Principles courses and a continuation of RADS 1103. The course content will include discussion relative to the imaging process inclusive of radiographic acceptable limits and the five phases that make the process viable. The course will include discussion pertinent to density, contrast, detail and distortion with inclusion of their relationships toward obtaining an acceptable diagnostic image.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1103**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1105: PRINCIPLES OF RADIOGRAPHIC IMAGING V**

This course is fifth of six Radiographic Principles courses and a continuation of RADS 1104 .The course content will include discussion relative to the imaging process. The course will discuss the art of image critique, quality management, exposure charts and fixed and varied kilovoltage systems. The course will include discussion pertinent to the use of automatic exposure controls (AEC's).

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1104**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1106: PRINCIPLES OF RADIOGRAPHIC IMAGING VI**

This course is the sixth of six Radiographic Principles courses and a continuation of RADS 1105 .The course content will include discussion relative to quality management in radiography including a continuation of QC testing and monitoring of radiographic equipment. The course will offer instruction pertinent to fluoroscopy mobile radiography, and conventional tomography will be reviewed.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1105**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1201: RADIOGRAPHIC PROCEDURES I**

The RADS 1201 course is the first of six radiographic procedures courses. This course includes an introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structures and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed are Radiographic Terminology and Principles, Chest, Abdomen, and Upper Extremities.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1202: RADIOGRAPHIC PROCEDURES II**

This course is a continuation of RADS 1201. This course includes radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed are the Shoulder Girdle, Lower Extremities, Pelvis and Upper Femora, Lumbar Spine, Sacrum, Coccyx, and SI Joints..

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1201**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1203: RADIOGRAPHIC PROCEDURES III**

This course is a continuation of RADS 1202. This course includes radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed are Cervical Spine, Thoracic Spine, Bony Thorax, Esophagus, Upper GI, Small Bowel and Lower GI.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1202**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1204: RADIOGRAPHIC PROCEDURES IV**

This course is a continuation of RADS 1203. This course includes radiographic positioning terminology,



the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed are Skull, Facial Bones, and Paranasal Sinuses.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1203**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1205: RADIOGRAPHIC PROCEDURES**

**V**

This course is a continuation of RADS 1204. This course includes radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed include Contrast Arthrography, Myelography, Digestive system, Urinary System, Reproductive System, and Pediatric Radiography.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1204**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1206: RADIOGRAPHIC PROCEDURES**

**VI**

This course is a continuation of RADS 1205. This course includes radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy and related pathology. The topics that will be discussed are Trauma Radiography, Surgical Radiography, Mobile Radiography and Geriatric Radiography.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1205**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1301: RADIOGRAPHIC IMAGING**

**EQUIPMENT I**

The content is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. The content also provides a basic knowledge of quality control.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1302: RADIOGRAPHIC IMAGING**

**EQUIPMENT II**

This is a continuation of course RADS 1301. The content is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. The content also provides a basic knowledge of quality control.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1301**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

### **RADS 1401: RADIATION PROTECTION I**

This course is the study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. The course will include an introduction to radiation protection, radiation types, sources, doses received, interaction of x-radiation with matter and radiation monitoring.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1402: RADIATION PROTECTION II**

This course is a continuation of course RADS 1401. This course is the study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. The course will include an introduction to radiation protection, radiation types, sources, doses received, interaction of x-radiation with matter and radiation monitoring.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1401**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**ISC 1601: IMAGING PATHOLOGY I**

This course investigates general pathology and organ system pathology. It includes a brief review of normal structure and function, followed by more in-depth descriptions of specific pathologic processes. This course will include basic characteristics, etiology, pathogenesis, clinical features, and diagnostic tools including medical imaging procedures, prognoses, and therapies for each of the specific pathologies. The contents of this course include an introduction to pathology, specialized imaging techniques, respiratory system, skeletal system, GI system and the urinary system.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**ISC 1602: IMAGING PATHOLOGY II**

This course investigates general pathology and organ system pathology. It includes a brief review of normal

structure and function, followed by more in-depth descriptions of specific pathologic processes. This course will include basic characteristics, etiology, pathogenesis, clinical features, and diagnostic tools including medical imaging procedures, prognoses, and therapies for each of the specific pathologies. The contents of this course include the cardiovascular, nervous, hematopoietic, endocrine and reproductive systems.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: ISC 1601**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1700: ADVANCED MEDICAL IMAGING**

This course offers introductory presentations of special procedures and advanced radiology related imaging modalities. The course will discuss the basic fundamentals for Bone Densitometry, Bone Survey, Angiography Interventional Radiography, CT, MR, US, Mammography, Nuclear Medicine, PET and Radiation Therapy. This course will include characteristics, advantages, and disadvantages, basic concepts of various specialized equipment, patient preparation and various methods utilized to demonstrate basic anatomy and pathology for advanced radiographic and non-radiographic imaging procedures.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1206**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1801: RADIOBIOLOGY**

Content is designed to provide an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 1206**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 1900: REGISTRY PREPARATION**

**COURSE**

This is a capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for the certification examination and lifelong learning.

**Clock hours of lab: 0**

**Clock hours of classroom lecture: 30**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: N/A**

**Total Clock Hours: 30**

**Tuition: \$690.00**

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

**TOTAL = 3.0 Qtr Hr**

**RADS 2100: CLINICAL I**

This is the first of five clinical courses; the student is expected to apply knowledge gained during fourth and fifth semesters of the program and begins to demonstrate the skills to become an effective radiographer. The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week totaling 210 clinical hours.

**Clock hours of Externship: 210**

**Clock hours of classroom lecture: 0**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: Successful completion of program content to this point.**

**Total Clock Hours: 210**

**Tuition: \$ 1610.00**

The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week for 6 weeks.

Lecture	0.0
Lab	0.0
Ext	7.0

**TOTAL = 7.0 Qtr Hr**

**RADS 2200: CLINICAL II**

This is the second of five clinical courses; the student is expected to apply knowledge gained during sixth and seventh semesters of the program and begins to demonstrate the skills to become an effective radiographer. The students will be scheduled for approximately 7.5 hours a day, with a 30 minute

lunch/break for 5 days a week totaling 210 clinical hours.

**Clock hours of Externship: 210**

**Clock hours of classroom lecture: 0**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 2100**

**Total Clock Hours: 210**

**Tuition: \$ 1610.00**

The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week for 6 weeks.

Lecture	0.0
Lab	0.0
Ext	7.0

**TOTAL = 7.0 Qtr Hr**

**RADS 2300: CLINICAL III**

This is the third of five clinical courses; the student is expected to apply knowledge gained during eighth and ninth semesters of the program and begins to demonstrate the skills to become an effective radiographer. The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week totaling 210 clinical hours.

**Clock hours of Externship: 210**

**Clock hours of classroom lecture: 0**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 2200**

**Total Clock Hours: 210**

**Tuition: \$ 1610.00**

The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week for 6 weeks.

Lecture	0.0
Lab	0.0
Ext	7.0

**TOTAL = 7.0 Qtr Hr**

**RADS 2400: CLINICAL IV**

This is the fourth of five clinical courses; the student is expected to apply knowledge gained during ninth and tenth semesters of the program and begins to demonstrate the skills to become an effective radiographer. The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week totaling 210 clinical hours.

**Clock hours of Externship: 210**

**Clock hours of classroom lecture: 0**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 2300**

**Total Clock Hours: 210**

**Tuition: \$ 1610.00**

The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week for 6 weeks.

Lecture	0.0
Lab	0.0
Ext	7.0

**TOTAL = 7.0 Qtr Hr**

**RADS 2500: CLINICAL V**

This is the fifth of five clinical courses; the student is expected to apply knowledge gained during eleventh and twelfth semesters of the program and begins to demonstrate the skills to become an effective radiographer. The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week totaling 210 clinical hours.

**Clock hours of Externship: 210**

**Clock hours of classroom lecture: 0**

*Clock hours of individual and small group tutoring: provided to student on an as-needed basis*

**Pre-Requisite: RADS 2400**

**Total Clock Hours: 210**

**Tuition: \$ 1610.00**

The students will be scheduled for approximately 7.5 hours a day, with a 30 minute lunch/break for 5 days a week for 6 weeks.

Lecture	0.0
Lab	0.0
Ext	7.0

**TOTAL = 7.0 Qtr Hr**