RAD 101 RAD SEMINAR I

ORIENTATION AND MEDICAL ETHICS

RAD 101.01

Instructor: Program Faculty
Hours: M/W, 8:30-11:15, first two weeks of class
Prerequisites: Acceptance into the program
Semester Schedule: Fall semester of the first year

COURSE DESCRIPTION:

Orientation – An introduction to the rules and regulations of the program, the Radiology Imaging Department and the hospital. Professional organizations and medical specialties are discussed. Basic radiation protection principles are discussed.

Medical Ethics – Professional responsibilities as a member of the Health Careers team are discussed. Proper conduct in regards to patients, physicians, and co-workers is stressed.

COURSE OBJECTIVES:

Upon completion of this course, the student will:

- utilize the knowledge gained to be a member of the health care team.
- understand the guidelines of the program, and recognize the Radiology Departments personnel and function.
- be aware of the basic organizational structure of a Radiology Department.
- recognize the needs of the patient.
- demonstrate empathy for the patient
- understand the different interpersonal relationships
- understand the importance of radiation protection for patients, co-workers, and themselves.
- understand Maslow's hierarchy, the levels of dying, and how these affect interaction with the patient.

Methods: Assignments, lectures, small groups, tests, videos.

EVALUATION SYSTEM:

The students are expected to attend all classes. If for some reason an excused absence is necessary, please inform the instructor in advance.

One cumulative essay test will be given work 30%. A paper will be assigned worth 40%.

This portion of RAD 101 is worth 10% of final grade. This module of RAD 101 seminar ***MUST*** be passed with at least a 75% to continue in the program.

RAD 101 RAD SEMINAR I

MEDICAL TERMINOLOGY
RAD 101.02

Instructor:	Program Faculty
Hours:	Home Study with in class assignments and tests
Text:	Quick and Easy Medical Terminology, Peggy Leonard
Prerequisite:	Acceptance into the program.
Semester	Fall semester of the first year.

COURSE DESCRIPTION:

This will be a self-learned module prior to the student beginning classes in the Fall semester of their first year. Students will be required to complete the assigned sections and homework prior to the beginning of the first semester.

Analysis of the common medical terms used in the radiology-imaging department, needed to facilitate requisition and procedure requirements.

COURSE OBJECTIVES:

Upon completion of this course, the student will:

- utilize the medical terminology in the health care setting.
- apply the knowledge gained to better understand the history of the patient and the results of radiologic findings.

METHODS:

Home assignments, tests, and case studies.

EVALUATION SYSTEM:

There will be four tests worth 25% each in the first four weeks of the semester.

This module of RAD 101 Seminar ***MUST*** be passed with at least a 75% to continue in the program.

This course is 10% of the final grade for RAD 101.

RAD 101 RAD SEMINAR I

EXPOSURE PRINCIPLES I
RAD 101.03

Instructor:	Program Faculty
Hours:	M, 8:30-11:15
Text:	Radiologic Science for Technologists, Stuart Bushong
Prerequisite:	Acceptance into the program.
Semester Schedule:	Fall semester of the first year.

COURSE DESCRIPTION:

A study of the basic principles of radiographic imaging and the production of quality radiographs. The control and understanding of contrast and density are emphasized. Discussions include affects of grids, film screen combustion, inverse square law, distance and types of distortion.

COURSE OBJECTIVES:

Upon completion of this course, the student will:

- understand the generation and properties of x-rays.
- define and recognize a quality radiograph.
- discuss radiographic density and the factors that influence it.
- discuss radiographic contrast and the factors that control it.
- accurately completing the formulas associated with changing the factors affecting contrast and density.

METHODS:

Lecture, class experiments, tests, computer programs, class discussion, film evaluation.

EVALUATION SYSTEM:

The student is responsible to attend all classes. Three tests will be given worth 75% of the course grade. A final comprehensive exam will be given worth 20% of the grade.

This course comprises 40% of the RAD 101 final course grade. This module of RAD Seminar 101 must be completed with at least a 75% to continue in the program.

RAD 101 RAD SEMINAR I

POSITIONING I
RAD 101.04

Instructor:	Program Faculty
Hours:	W, 8:30-11:15
Text:	Textbook of Radiographic Positioning and Related Anatomy, Ballinger
Prerequisite:	Acceptance into the Program.
Semester Schedule:	Fall semester of the first year.

COURSE DESCRIPTION:

This course acquaints the students with positioning terms, planes of the body, and the basic positioning and relative anatomy of the upper extremity, chest, abdomen, and lower extremities.

COURSE OBJECTIVES:

Upon completion of this course, the student will:

- utilize the knowledge gained in positioning patients for chest x-rays, abdomen, upper extremities and lower extremities.
- apply proper position techniques to produce a quality radiography
- function as a member of the radiology department, in the delivery of radiographs diagnosis.

METHODS:

Assigned reading, lectures, audiovisual materials, lab demonstrations.

EVALUATION SYSTEM:

Students are responsible to attend all classes. Assigned material must be completed prior to lecture. Three tests will be given worth 75% of the course grade. A final comprehensive exam will be worth 25%.

This course is 40% of the overall RAD 101 final course grade.

This module of RAD Seminar 101 must be completed with at least a 75% to continue in the program.