

# RDSC Radiologic Science

---

---

## **RDSC 3001 Radiologic Sciences I**

**5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

An introduction to professional organization, specialties, accreditation, certification, licensure, professional development, ethics, and legal issues. Topics include mechanics, electromagnetic physics, nuclear physics, x-ray production, introduction to digital imaging processes, fluoroscopy, sonographic or radiologic physical principles and instrumentation, and nuclear decay as they relate to the medical setting.

## **RDSC 3002 Radiologic Sciences II**

**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

Biological, chemical, and physical effects of radiation and radiation measurement and safety. A survey of human pathology including cancer, vascular diseases, trauma, anomalies and other disease processes as demonstrated by radiologic imaging. Includes 2D and 3D cross sectional images of ultrasound, CT, MRI, Nuclear Medicine and Radiography.

**Prerequisite(s):** A minimum grade of "C" in RSDC 3001.

## **RDSC 3060 Principles of Image Formation and Evaluation**

**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Open only to majors in radiologic sciences. Factors controlling radiographic image production and image quality. Topics include geometric and photographic properties, image quality evaluation, and image display.

## **RDSC 3060L Prin Of Image Form & Evalu Lab**

**0 Credit Hours. 0 Lecture Hours. 2 Lab Hours.**

## **RDSC 4100 Advanced Imaging Modalities**

**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Instrumentation, operation, and clinical uses of MRI or CT or Mammography or Sonography.

**Prerequisite(s):** A minimum grade of "C" in RADR 4101 or CVIS 4101 or NUCM 4101 or RTHR 4101 or SONO 14101 and RADR 4102 or CVIS 4102 or NUCM 4102 or RTHR 4102 or SONO 4102.