Bachelor of Science Degree in Radiologic Sciences

Admission Requirements

You can be eligible for admission to the Bachelor of Science in Radiologic Sciences program by meeting the requirements below:

1. Be registered by ARRT or NMTCB. Registry must be current and in good standing.
2. Have a minimum cumulative GPA of 2.50 (C+).

Applicants who DO NOT have an Associates in Radiography or Nuclear Medicine will be required to complete the following courses in addition to the remaining curriculum:
   - DBIO101 - Anatomy and Physiology I (14 week course)
   - DBIO102 - Anatomy and Physiology II (14 week course)
   - DMAT120 - College Algebra (14 week course)
   - DPHY121 - Survey of Physics (14 week course)
   - DPSY124 - General Psychology (7 week course)

Program Structure:
- Students will take all courses listed unless they have appropriate transfer credit from an equivalent course.
- Each trimester (fall, spring, & summer) is 14 weeks long.
- General education courses are 7 weeks long, with the exception of Sectional Anatomy which is 14 weeks. Core courses are 4 or 5 weeks long, and begin with the prefix DADI.
- Students may take 1 – 4 classes per trimester.
- Courses may be taken consecutively (one right after the other), or simultaneously (at the same time).
- A webcam is required for all classes.

Accreditation:
- Adventist University of Health Sciences is regionally accredited by the Southern Association of Colleges and Schools, 1866 Southern Lane, Decatur, GA 30033-4097, Telephone: 404-679-4500, http://www.sacs.org.
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Curriculum Framework

*Each course listed below is 3 credit hours.

GENERAL EDUCATION REQUIREMENTS (33 CREDITS)

DENG 101 English Composition I
DENG 102 English Composition II
DBSA 343 Legal and Ethical Aspects of Health Care
DBSA 354 Leadership and Organizational Behavior
DBSA 385 Marketing Health Care
DBSA 388 Components of Health Care Financial Management
DBIO 144 Sectional Anatomy
DSTA 205 Applied Statistics
DENG 250 Technical Writing
DREL 368 World Religions for the Health Professions
Choose 1:
  DREL 379 Lessons on Living: Biblical Perspectives
  DREL 305 Christian Ethics for Nursing and Allied Health

RADIOLOGIC SCIENCES (CORE) REQUIREMENTS (18 CREDITS)

DADI 300 Principles of Quality Management
DADI 400 Management Principles for Imaging Professionals
DADI 485 Medical Imaging in the Digital Environment
DADI 490 Case Studies in Health Care
DADI 494 Issues & Trends in the Health Care Arena I
DADI 495 Issues & Trends in the Health Care Arena II

*** YOU WILL CHOOSE 1 OF THE FOLLOWING TRACKS ***

Multi-Modality Track (15 CREDITS)

DADI 322 Principles of Mammography
DADI 371 Physics and Instrumentation of CT
DADI 372 CT Imaging Procedures
DADI 381 Physics and Instrumentation of MRI
DADI 382 MRI Imaging Procedures

CT Track (15 CREDITS)

DADI 371 Physics and Instrumentation of CT
DADI 372 CT Imaging Procedures
DADI 373 CT Pathology and Case Studies
DADI 420 Advanced Procedures and Technology in CT
DADI 425 CT Registry Review

MRI Track (15 CREDITS)

DADI 381 Physics and Instrumentation of MRI
DADI 382 MRI Imaging Procedures
DADI 383 MRI Pathology and Case Studies
DADI 430 Advanced Procedures and Technology in MRI
DADI 435 MRI Registry Review
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Course Descriptions

*A webcam is required for all classes*

**DENG 101  English Composition I**
Prerequisite: A minimum English ACT score of 19, or a passing score on the English Composition Placement Test, or ENGL 091 with a minimum grade of “C” (2.00).
Focuses on writing as a means for authentic expression and exploration. Emphasis is on the writing process, especially revision. Students write several expository essays organized according to prescribed modes and learn specific writing skills and principles which readily apply to most writing tasks.

**DENG 102  English Composition II**
Prerequisite: DENG 101 with a minimum grade of “C” (2.00).
Applies the writing skills developed in DENG 101 while focusing on rhetorical and reasoning skills necessary for various persuasive and research writing activities. Students write several persuasive papers and a major research paper.

**DBSA 343  Legal Aspects of Health Care**
An introduction to general law and its interpretation, including various aspects of personnel law, contract law, and those laws regulating the relationship of for-profit and not-for-profit organizations with governmental and non-governmental agencies.

**DBSA 354  Leadership and Organizational Behavior**
An exploration of the nature of individual and group behavior as it relates to the workplace. Attention will be given to motivation, performance and morale, as well as the supervision and leadership of employees.

**DBSA 385  Marketing Health Care**
A study of the nature and function of marketing within the health care setting. Topics include Strategic Planning, Competitive Analysis, Conservative Behavior, Marketing Communication and Public Relations.

**DBSA 388  Components of Health Care Financial Management**
A course exploring the concepts of managerial accounting, including an understanding of the accounting cycle and the presentation and interpretation of financial statements.

**DBIO 144  Sectional Anatomy**
Study of human anatomy, primarily emphasizing axial planes but also including sagittal, coronal and oblique plans. Designed to aid imaging modality students in recognizing, locating and identifying normal anatomy on various computer images.

**DSTA 205  Applied Statistics**
Introduction to descriptive and inferential statistics, including elementary probability, probability distributions, hypothesis testing, correlation and regression.

**DENG 250  Technical Writing (pre-requisite required: DENG 102)**
Techniques of written communication within a professional setting. Includes writing reports, proposals, case notes and charts.

**DREL 368  World Religions for the Health Professions (pre-requisite required: DENG 102)**
A study of the major world religions, including their history and development. This course will also familiarize the student with the major tenets and practices of these religions. Teachings and practices that impact the practice of health care are emphasized.
DREL 379 Lessons on Living: Biblical Perspectives (pre-requisite required: DENG 102)
This course completes the coverage of the major religions of the world through an introduction to the wisdom literature of the Jewish and Christian Bible, followed by a close reading of the Sermon on the Mount and selected parables attributed to Jesus.

DREL 305 Christian Ethics for Nursing and Allied Health (pre-requisite required: DENG 102)
A survey of the ethics of health care for bachelor level allied health professionals and nurses from a Christian Perspective. Topics include confidentiality, role fidelity, allocation of scarce resources, paternalism, end of life issues, reproductive issues, AIDS, and genetic manipulation. Weekly grade exercises include closed book assessments, case study postings, and roundtable discussion. An ethics interview and a final paper over personal and professional ethics comprise the core assignments.

DADI 300 Principles of Quality Management (pre-requisite required: DBIO 144)
To include the most up-to-date information available on the quality management aspects of darkrooms, processing, equipment and accessories, fluoroscopic and advanced imaging equipment, artifacts, repeat analysis and silver recovery.

DADI 400 Management Principles for Imaging Professionals (pre-requisite required: DBIO 144)
The course explores the multiple dimensions of the role of the imaging professional in the healthcare arena. Emphasis is placed on the management responsibilities needed to foster and promote quality outcomes. Topics will focus on aspects of the following: patient engagement and communication, recruitment and retention, emotional intelligence, creating effective committees and teams, and coaching and mentoring skills.

DADI 485 Medical Imaging in the Digital Environment (pre-requisite required: DBIO 144)
Covers Picture Archiving and Communicating Systems (PACS), Computed Radiography, Direct Digital Radiography, Networking and DICOM.

DADI 490 Case Studies in Health Care (pre-requisite required: DBSA 343, DBSA 354, DBSA 385, DBSA 388)
A capstone course that integrates business strategies for current and future operations within the field of Radiologic Sciences. Applying concepts previously learned, students will create and deliver a strategic plan that encompasses the field of Radiography.

DADI 494 Issues and Trends in the Health Care Arena I (pre-requisite required: DBIO 144)
This course explores the dynamics of the Health Care marketplace including: changing demographics, increasing demands of the aging population, health care workforce, new medical technology and research. Emphasis will be placed on health behaviors, namely smoking, poor dietary habits, lack of exercise, alcohol abuse and workplace violence.

DADI 495 Issues and Trends in the Health Care Arena II (pre-requisite required: DBIO 144, DADI 494)
Emphasis will be placed on medical imaging environment. It will examine the challenges that shaped the field of imaging technology and the current innovative strategies that are the driving forces of tomorrow.

DADI 322 Principles of Mammography (pre-requisite required: DBIO 144)
The physical principles and instrumentation of mammography. Topics include patient education and assessment, instrumentation and quality assurance, and mammographic techniques. Also included will be positioning and image evaluation and anatomy, physiology and pathology of the breast.

DADI 371 Physics and Instrumentation of CT (pre-requisite required: DBIO 144)
This course provides an overview of the physical principles and instrumentation associated with computed tomography. Topics include methods of data acquisition and manipulation, CT systems and operations, and image processing and display. Quality management and artifact recognition will also be discussed.
DADI 372  CT Imaging Procedures (pre-requisite required: DADI 371)
An overview of scanning techniques related to the central nervous system, neck, thorax, abdomen and pelvis, vascular (CTA), spine and musculoskeletal regions. Anatomy, positioning criteria, and various protocols will be studied. Research paper and case studies will be presented.

DADI 373  CT Pathology and Case Studies (pre-requisite required: DADI 371 and DADI 372)
This course is designed to introduce the various pathological disorders that can be seen while performing CT scans on the different anatomical sections of the body. Clinical manifestations and radiographic appearance of pathological conditions will be discussed. Research paper and case studies will be presented.

DADI 420  Advanced Procedures & Techniques in CT (pre-requisite required: DADI 371, DADI 372, DADI 373)
Students are introduced to the principles of 3D formatting, multi-slice advancements and considerations, computer software innovations, and post-processing techniques. Advanced imaging procedures, such as CT-guided biopsy, calcium scoring, and PET/CT, will also be covered.

DADI 425  CT Registry Review (pre-requisite required: DADI 420)
Provides a comprehensive review of CT in preparation for the National Certification Examination. Numerous simulated registry examinations will be administered during the course.

DADI 381  Physics and Instrumentation of MRI (pre-requisite required: DBIO 144)
This course provides the student with the physical principles of image formation, data acquisition and processing related to magnetic resonance imaging. Topics include electromagnetism, gradients, pulse sequences, imaging parameters, and image analysis. Quality management and artifact recognition will also be discussed.

DADI 382  MRI Imaging Procedures (pre-requisite required: DADI 381)
An overview of scanning techniques related to the central nervous system, neck, thorax, breast, abdomen and pelvis, vascular (MRA/MRV), spine and musculoskeletal regions. Anatomy, positioning criteria, coil selection, and various protocols will be studied. Research paper and case studies will be presented.

DADI 383  MRI Pathology and Case Studies (pre-requisite required: DADI 381 and DADI 382)
This course is designed to introduce the various pathological disorders that can be seen while performing MRI scans on the different anatomical sections of the body. Clinical manifestations and radiographic appearance of pathological conditions will be discussed. Research paper and case studies will be presented.

DADI 430  Advanced Procedures & Techniques in MRI (pre-requisite required: DADI 381, DADI 382, DADI 383)
Students are introduced to the principles of 3-D post-processing techniques, scanner and magnet advancements, computer software innovations, and dynamic imaging. Special procedures and techniques, such as diffusion/perfusion scanning, spectroscopy, and MRI, will also be discussed.

DADI 435  MRI Registry Review (pre-requisite required: DADI 430)
Provides a comprehensive review of MRI in preparation for the National Certification Examination. Numerous simulated registry examinations will be administered during the course.

DBIO 101  Anatomy and Physiology I and Lab
Study of the typical structure and function of the human body utilizing digital and electronic media. Includes a study of the integumentary, skeletal, muscular, and nervous systems, along with their cytology, histology, and chemistry. Lab exercises are included in this course.
DBIO 102 Anatomy and Physiology II and Lab
Prerequisite: DBIO 101 with a minimum grade of “C” (2.00).
Further study of the typical structure and function of the human body utilizing digital and electronic media. Covers endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems. Lab exercises are included in this course.

DMAT 120 College Algebra - Scanner required for this class
Prerequisite: A minimum Math ACT score of 19, or a passing score on the Math Composition Placement Test, or an Intermediate Algebra course with a minimum grade of “C” (2.00).
A study of the concept of function, as well as other advanced algebraic concepts. Following a brief review of topics covered in previous courses, this course will include an extension of intermediate or high school algebra topics.

PHYS 121 Survey of Physics
Prerequisite: College Algebra DMAT 120 with a minimum grade of “C” (2.00).
Series of lectures and demonstrations aimed at an understanding of the physical principles of mechanics, heat, sound, light, electricity, and modern physics. Lab exercises are included in this course.

DPSY 124 General Psychology
Survey of psychology, including human development, sensation and perception, learning and thinking, emotions, motivation, personality, and stress, as well as psychological disorders and their treatment.
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Tuition & Fees

Adventist University of Health Sciences offers a quality education at a price well below the costs of most private institutions. Our financial aid counselors help students secure the maximum amount of financial assistance available, including federal grants and loans. Our goal is to ensure that all students with the drive and determination to complete our professional programs have the opportunity to do so.

- Tuition per credit hour (subject to change) $395.00
- Matriculation Fee (per trimester) $290.00
- Application Fee (one time) $20.00
- Textbooks prices vary
- Background Check price varies by state

Background Check
Adventist University of Health Sciences requires all new students to complete a background check before registering for the first time. While a background check is not required to be admitted, it is required before you can register for your first term so it’s a good idea to fill it out while you’re applying. Click here to begin: [http://online.adu.edu/docs/ADU_BSRS_Background_Check.pdf](http://online.adu.edu/docs/ADU_BSRS_Background_Check.pdf)

Payment Plan
The option to set up a payment plan will be available during your registration process. You may also contact the Business Office for payment plan questions.

Financial Aid
As an Adventist University student, you may be eligible for federal student aid in the form of grants and federal student loans. There is no cost to apply for financial assistance, and you may qualify for a student loan regardless of your income or credit.

To be eligible, you must meet the following criteria:
- Be accepted as a degree-seeking student
- Enroll in at least 6 credit hours each trimester
- Not be in default on prior student loans
- Not owe a repayment or overpayment of a federal grant
- Have a high school diploma or GED certificate
- Be making Satisfactory Academic Progress for financial aid
- Be a U.S. citizen, national or permanent resident alien
- Be registered for Selective Service (men only)

You can review information and instructions on applying for financial aid at [www.adu.edu](http://www.adu.edu), Enrollment, Financial Information. Once you have an ADU username and password and have completed the FAFSA, go to my.adu.edu and click on Financial Services, then Financial Aid to complete the online financial aid application, view documents that are outstanding, view awards, loans, and be able to download financial aid forms. A Financial Aid Checklist is provided on the next page.
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Financial Aid Checklist

IN ORDER FOR ALL FINANCIAL AID PAPERS TO BE PROCESSED AND VALID, ALL FINANCIAL AID FORMS MUST BE RECEIVED BY THE FINANCIAL AID OFFICE:

FAX: 407-303-7680, ATTN: Distance Learning Financial Aid Office

PLEASE CONTACT YOUR ENROLLMENT ADVISOR FOR IMPORTANT DEADLINES

COMPLETE THE FOLLOWING STEPS:

1. **Apply to Adventist University of Health Sciences:** [https://apply.adu.edu/user/register](https://apply.adu.edu/user/register)

   - Complete the 2014-2015 FAFSA
   - ADU School code: 031155
   - You are considered an Undergraduate student
   - Allow at least 3-5 business days for your results to be sent to Adventist University

3. **For Federal Stafford Loans** ([https://studentloans.gov/myDirectLoan/index.action](https://studentloans.gov/myDirectLoan/index.action))
   - Complete the Master Promissory Note (MPN)
   - Complete Undergraduate Entrance Loan Counseling (ELC)

4. **Fill out the online ADU Aid Application**

To follow up with the Adventist University Financial Aid Office, please contact: **407.303.7742** and then dial extension for appropriate representative:

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<tr>
<td>A – F</td>
<td>Colleen (Teen) Nielson</td>
<td>110-5453</td>
<td><a href="mailto:colleen.nielson@adu.edu">colleen.nielson@adu.edu</a></td>
</tr>
<tr>
<td>G – M</td>
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<td>110-6401</td>
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<tr>
<td>N – U</td>
<td>Valerie Payan</td>
<td>110-9872</td>
<td><a href="mailto:valerie.payan@adu.edu">valerie.payan@adu.edu</a></td>
</tr>
<tr>
<td>V-W</td>
<td>Rebecca Valencia</td>
<td>303-1826</td>
<td><a href="mailto:rebecca.valencia@adu.edu">rebecca.valencia@adu.edu</a></td>
</tr>
<tr>
<td>X-Z</td>
<td>Lynda Swanson</td>
<td>303-9203</td>
<td><a href="mailto:Lynda.swanson@adu.edu">Lynda.swanson@adu.edu</a></td>
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Application Instructions

- **Step 1: Complete the Adventist University Online Application for Admission**
  - [https://apply.adu.edu/user/register](https://apply.adu.edu/user/register)

- **Step 2: Request Official Transcript(s)**
  - Request transcripts from every college/institution attended
  - If you earned a certificate from the military, we require an official transcript and a copy of your certificate/diploma
  - Transcript(s) must be mailed directly from the institution to the address below:
    
    Adventist University of Health Sciences  
    Off-Site Admissions Office  
    2145 Metro Center Blvd, Suite 400  
    Orlando, FL 32835

- **Step 3: 2 Recommendation Forms**
  - Download here, [http://online.adu.edu/docs/Distance_Recommendation_Form.pdf](http://online.adu.edu/docs/Distance_Recommendation_Form.pdf)
  - No friends or family

- **Step 4: Pay the Non-Refundable $20 Application Fee**
  - Look up your username and password here, [https://my.adu.edu/idlookup](https://my.adu.edu/idlookup)
  - Use that username and password to log in to this site and pay by credit card, [https://my.adu.edu/pay/application/undergraduate](https://my.adu.edu/pay/application/undergraduate)

Your Distance Enrollment Specialist will communicate with you on the status of your application and will notify you when your application is complete. Upon review of your completed application, Adventist University of Health Sciences will notify you of your status.

*Recommendations and transcripts expire 1 year from the date of receipt by the Distance Enrollment Advisor.*

For application assistance, please call a Distance Enrollment Specialist:  
(Toll free) 888-768-6276, press 2