# Bachelor of Science in Radiologic Science (B.S.R.S.)




Presented By: The Radiologic Technology Program
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# APPLY NOW!!!

- **Accreditation Status – Pending WASC Senior College and University Commission Approval**
- Charles R. Drew University is in the process of securing approval for a Bachelor of Science in Radiologic Science Program. The program is applying for accreditation by the WASC Senior College and University Commission (WSCUC), with a final decision expected in early summer 2016. The program anticipates matriculating its inaugural class in August 2016, pending WSCUC approval. In the event that the program is not granted accreditation, a full refund of credit fees will be issued.
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# Bachelor of Science in Radiologic Science (B.S.R.S.)

- CDU currently has one AS degree program
- The program in fall 2016 will admit its 45th cohort
- Currently have 51 students in two cohorts
- 17 professional core courses totaling 50 units
- 13 general education and core requirements totaling 34 units
- **84** total units for the associate degree in Radiologic Technology
- The Radiologic Technology Program has two external accreditors. The Joint Review Committee on Education in Radiologic Technology (JRCERT) and The California Department of Public Health (CDPH) Radiologic Health Branch (RHB)

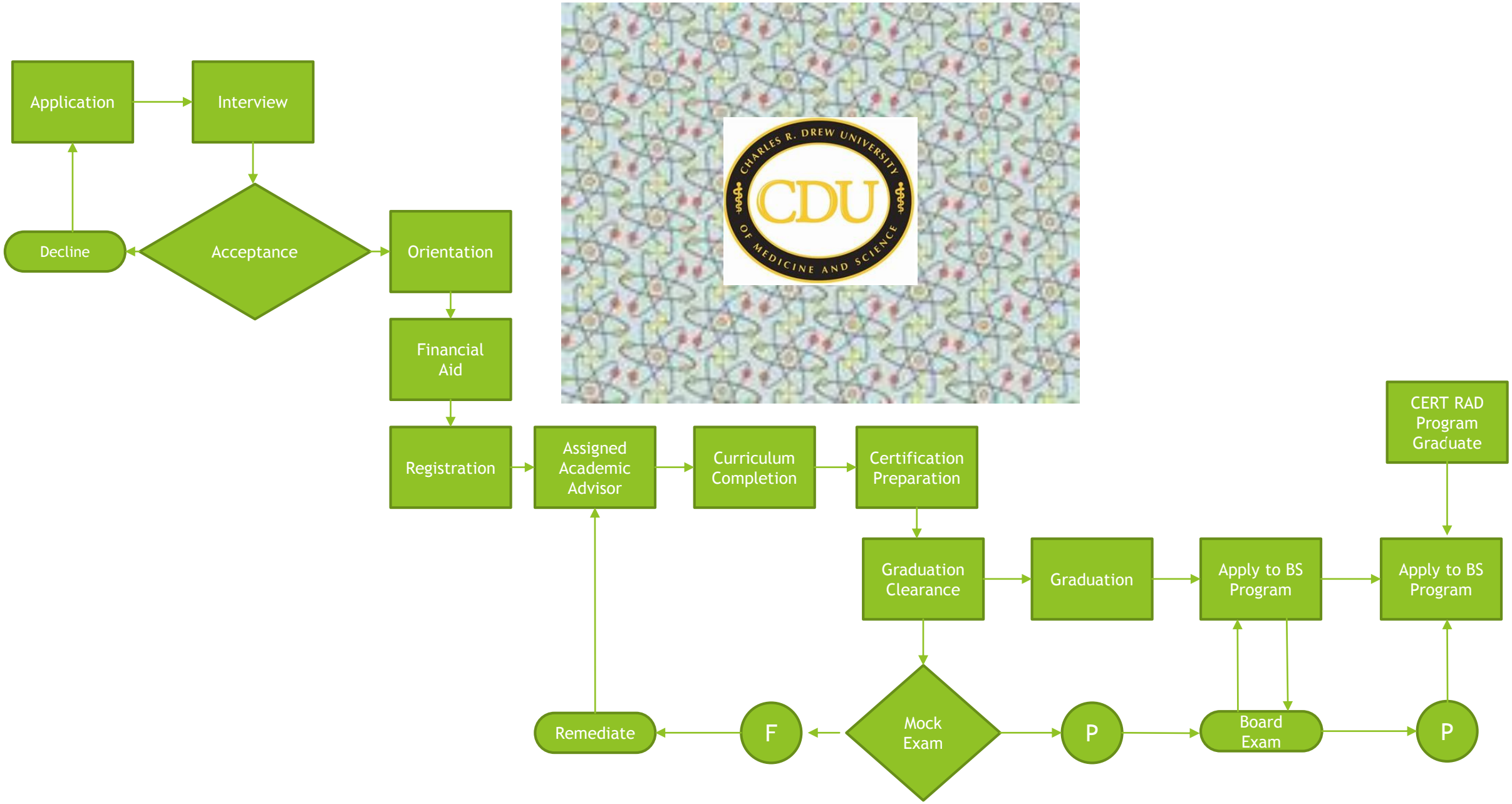
# Bachelor of Science Degree

- **Charles R. Drew University of Medicine and Science B.S.R.S.**
- Program Requirements
- 1. Lower Division Required Courses (**30** units)
- 2. Clinical Required Courses (**17** units)
- 3. Professional Required Courses (**33** units)
- 4. Upper Division Required Health Sciences Core (**20** units)
- 5. General Education (**24** units)
- Total Units in the Major: **100**
- General Education Units: **24**
- Total Units Required for the B.S. Degree: **124**

**2015 – 2016 Basic Tuition Fees $556.00 per unit**
**Approximately $68,000.00 per student minus transferred courses**

# Admission Requirement

- Associate degree from a Joint Review Committee on Education in Radiologic Technology (JRCERT) accredited program.
- Overall minimum GPA of 2.5 or above.
- Must have certification from the American Registry of Radiologic Technologists (ARRT) or equivalent specialty certification. Applicants who are eligible to take the ARRT examination for certification but who have not had the opportunity to do so are given provisional status for one semester. Eligibility to continue is subject to student's obtaining certification. It should be understood that the University will not sign or validate registry documents of students who obtained their training in another program.


Application
Interview
Decline
Acceptance
Orientation
Financial Aid
Registration
Assigned Academic Advisor
Curriculum Completion
Certification Preparation
CERT RAD Program Graduate
Graduation Clearance
Graduation
Apply to BS Program
Apply to BS Program
Remediate
F
Mock Exam
P
Board Exam
P

# Bachelor of Science Degree

- The Bachelor of Science degree in radiation sciences provides imaging professionals with the foundational education necessary to advance into various career possibilities, including: advanced imaging modalities, graduate degrees, and professional advancement into entry management, education, and informatics positions.
- Students in this program will graduate with a bachelor of science in the radiologic science, with an emphasis in radiography.
- The Bachelor of Science Degree in Radiologic Science at CDU offers the student the opportunity to complete the primary certification in radiologic technology after the sophomore year.

# Student Learning Outcomes

- Demonstrate clinical competence by applying accurate positioning skills, selecting appropriate technical factors and using appropriate radiation protection measures.
- Prepare written reports and present them orally on atypical case studies in conjunction with completion of a speech course at the college level.
- Show problem solving and critical thinking skills by completing all laboratory experiments and adapting to non-routine examinations.
- Demonstrate professional development by attending at least one professional conference and joining a professional society that promotes ethical and professional behavior.
- Relate the importance of imaging with computed tomography, magnetic imaging and PET-CT.
- Research a community health issue, analyze and interpret the data and communicate the results in a research abstract.

| The CDU Advantage | Research Experience | Social Justice/Cultural Diversity Education | Global-International Experience: Comparative Health Disparities | Experiential Education-Underserved Community Engagement | Health Policy: Socio-Political-economic Dynamics of Health |
|---|---|---|---|---|---|
| Program Learning Outcomes Radiologic Technology Bachelor of Science Degree | | | | | |
| Demonstrate clinical competencies by applying accurate positioning skills, selecting appropriate technical factors and using appropriate radiation protection measures. | | | | | |
| Prepare written reports and present them orally on atypical case studies in conjunction with completion of a speech course at the college level. | X | | | | |
| Show problem solving and critical thinking skills by completing all laboratory experiments and adapting to non-routine examinations. | | | | | |
| Demonstrate professional development by attending at least one professional conference and joining a professional society that promotes ethical and professional behavior. | X | X | | X | X |
| Relate the importance of imaging with computed tomography, magnetic imaging and PET-CT. | | | | | |
| Research a community health issue, analyze and interpret the data and communicate the results in a research abstract. | X | X | X | X | X |

# Why a Baccalaureate Degree at CDU?

- To continuously support the University Mission, Vision and Values.
- To be an important part of the applicable Themes, Strategic Goals, and Objectives of the Strategic Plan as we progress into the future.
- To serve the educational needs of the communities of interest.

# Why a Baccalaureate Degree?

- The *ASRT recognizes the baccalaureate degree as the professional level of radiologic science education.
- The curriculum provides the learner with a balance between professional radiologic science courses and those in liberal arts and science.
- The B.S. core curriculum expands areas found in the entry-level radiography curriculum, such as critical thinking, human diversity, research and communication skills.
- Students at the B.S. level engage these topics with more depth and breadth, resulting in a broader knowledge base and skill set than the entry-level radiographer.
- B.S. degree education is a pathway to health administration, imaging informatics, dosimetry and advanced imaging modalities.
- U.S. Bureau of Labor Statistics project a 9% (faster than average) or a + 20,700 job change between 2014 - 2024.

* **American Society of Radiologic Technologist** a professional membership association for medical imaging technologists, radiation therapists and radiologic science students.

# Core Curriculum Years 1 & 2

| YR. | SEMESTER | COAH# | PROGRAM COURSE | UNITS |
|---|---|---|---|---|
| 1st | FALL | RAD 102 | Introduction to Radiologic Technology | 2 |
| | | RAD 103 | Radiographic Positioning I w/Lab | 3 |
| | 16 weeks | RAD 105 | Methods of Patient Care | 2 |
| | | RAD 107 | Introduction to Radiography Physics | 3 |
| | | RAD 120 | Clinical Practicum I | 2 |
| | | | Total Clinical Hours 296 | 12 |
| 1st | SPRING | RAD 104 | Radiographic Positioning II w/ Lab | 3 |
| | 16 weeks | RAD 112 | Principles of Radiation Exposure I | 2 |
| | | RAD 130 | Clinical Practicum II | 3 |
| | | COM 131 or<br>HUM 231 | ** Introduction to Spanish or<br>Introduction to Humanities or | 3 |
| | | PHE 250 | Community Health Issues | 1 |
| | | | Total Clinical Hours 410 | 12 |
| 1st | SUMMER | RAD 106 | Radiographic Positioning III w/Lab | 3 |
| | 12 weeks | RAD 113 | Principles of Radiation Exposure II | 2 |
| | | RAD 140 | Clinical Practicum III | 3 |
| | | COM 231 | Spanish for Healthcare Professionals | 3 |
| | | | Total Clinical Hours 364 | 11 |
| 2nd | FALL | RAD 209 | Radiographic Positioning IV w/Lab | 3 |
| | 16 weeks | RAD 215 | Advanced Radiographic Procedures | 3 |
| | | RAD 216 | Principles of Radiation Exposure III | 2 |
| | | RAD 220 | Clinical Practicum IV | 3 |
| | | PHE 255 | Sophomore Health Seminar and Capstone | 1 |
| | | | Total Clinical Hours 320 | 12 |
| 2nd | SPRING | RAD 217 | Sophomore Seminar II & Certification Preparation | 5 |
| | 16 weeks | RAD 230 | Clinical Practicum V | 4 |
| | | ART 131 | Health and Creative Arts (UE)** | 3 |
| | | | Total Clinical Hours 465 | 12 |
| 2nd | SUMMER | | Certification Remediation | |
| | 12 weeks | | Clinical Remediation | |
| | | | | |
| | | | Total | 59 |

# Year Three Curriculum

| Third Year, First Semester | | | |
|---|---|---|---|
| **Course #** | Course Title | Units | Instructor |
| **PSY 141** | General Psychology | 3 | TBA |
| **HUM 233** | Cultural Diversity in Contemporary Literature | 3 | H. Abramowitz |
| **HUM 330** | Medical Humanities I: Philosophy of Health | 3 | H. Abramowitz |
| **PSY 351** | Human Development | 3 | C. Goldstein |
| **RAD 400** | Cross Section Anatomy | 2 | E. Hasson |
| **Semester Unit Total** | | 14 | |
| | | | |
| **Third Year, Second Semester** | | | |
| **Course #** | Course Title | Units | Instructor |
| **ENG 314** | Writing for Health Care Professionals | 3 | H. Abramowitz |
| **COM 315** | Cross Cultural Communication in Healthcare | 3 | H. Abramowitz |
| **RAD 401** | Principles of Magnetic Resonance Imaging | 3 | N. Rollon |
| **PHE 450** | Senior Health Seminar and Capstone | 1 | C. Goldstein |
| **PHE 451** | Research Methods | 3 | TBA |
| **Semester Unit Total** | | 13 | |
| | | | |
| **Third Year, Third Semester** | | | |
| **Course #** | Course Title | Units | Instructor |
| **ENG 112** | Critical Thinking and Text Analysis | 3 | H. Abramowitz |
| **MTH 126** | College Algebra | 3 | E. Rodrigo |
| **POL 141** | United States Government | 3 | H. Abramowitz |
| **PHE 352** | Health Dynamics and Cultural Diversity | 3 | C. Goldstein |
| **RAD 402** | Principles of Computed Tomography | 3 | L. Armstead |
| **Semester Unit Total** | | 15 | |
| **Total Units Post Primary Degree** | | 42 | |

# Curriculum Mapping

| COURSE # | | 1 | 2 | 3 | 4 | 5 | 6 | SEMESTER |
|---|---|---|---|---|---|---|---|---|
| **PSY 141** | General Psychology | D | I/D | D/M | M | C | M | 3rd Fall |
| **PSY 351** | Human Development | D | I/D | D/M | M | C | M | 3rd Fall |
| **RAD 400** | Cross Section Anatomy | I/D | C | D | M | M | C | 3rd Fall |
| **HSM 405** | Critical Health Issues | I/D | I/D | D/M | M | C | M | 3rd Fall |
| **PHE 451** | Research Methods | I/D | D/M | D/M | M | C | M | 3rd Fall |
| **PSY 141** | General Psychology | I/D | I/D | D/M | M | C | M | 3rd Spring |
| **COM 315** | Cross Cultural Communication in Healthcare | I/D | I/D | D/M | M | C | M | 3rd Spring |
| **HUM 330** | Medical Humanities I, Philosophy of Health | I/D | I/D | D/M | M | C | M | 3rd Spring |
| **RAD 402** | Principles of Magnetic Resonance Imaging | I/D | D | D | D | M | C | 3rd Spring |
| **PHE 450** | Senior Health Seminar and Capstone | C | D | D/M | M | C | M | 3rd Spring |
| **ENG 112** | Critical Thinking and Text Analysis | I/D | C | D/M | M | M | M | 3rd Summer |
| **MTH 126** | College Algebra | D/M | C | C | C | C | C | 3rd Summer |
| **POL 141** | United States Government | I/D | D | D | M | C | C | 3rd Summer |
| **HSM 311** | Introduction to the Healthcare System | I/D | D | D/M | M | C | M | 3rd Summer |
| **RAD 401** | Principles of Computed Tomography | I/D | D | D | D | M | C | 3rd Summer |

| **Program SLO** |
|---|
| 1. Demonstrate clinical competence by applying accurate positioning skills, selecting appropriate technical factors and using appropriate radiation protection measures. |
| 2. Prepare written reports and present them orally on atypical case studies in conjunction with completion of a speech course at the college level. |
| 3. Show problem solving and critical thinking skills by completing all laboratory experiments and adapting to non-routine examinations. |
| 4. Demonstrate professional development by attending at least one professional conference and joining a professional society that promotes ethical and professional behavior. |
| 5. Relate the importance of imaging with computed tomography, magnetic imaging and PET-CT. |
| 6. Research a community health issue, analyze and interpret the data and communicate the results in a research abstract. |

| **Campus SLO** |
|---|
| 1. Demonstrate Excellence in their chosen field of study. |
| 2. Evaluate, use and/or conduct research. |
| 3. Demonstrate compassion and cultural sensitivity, with a special commitment to serving diverse and underserved populations. |
| 4. Demonstrate responsible, empathetic, and ethical professional behavior. |

I - Introduced C - Considered (not a major focus) D - Developed M - Mastered

# Social Media Sites

- Lambda Nu Sites
- https://twitter.com/CDU_LambdaNu
- https://www.facebook.com/pages/Lambda-Nu-Charles-Drew-University/1604226936506238
- Charles Drew University Sites
- https://www.facebook.com/pages/Charles-R-Drew-University-Radiologic-Technology-Program/741475099312341
- https://twitter.com/cdrewu_radtech

# What is Lambda Nu?

- National Honor Society for the Radiologic and Imaging Sciences.
- The name of this organization is the Los Angeles, California Chapter of Lambda Nu, the national honor society for the radiologic and imaging sciences.
- This Chapter is established at Charles Drew University of Medicine and Science, College of Science and Health, Los Angeles, California November 18, 2004. CDU is the first Chapter in California.
- The purpose of this Chapter is to:
- v **foster academic scholarship** at the highest academic levels.
- v promote research and investigation in the radiologic and imaging sciences.
- v recognize exemplary scholarship.
- **Membership Criteria**
- Professional course GPA 3.0 or higher on 4.0 scale after one full time semester (or equivalent) of a professional program.
- Enrollment in a radiologic or imaging sciences program as a full time student for at least one term.

# Lambda Nu Officers

# Future BS Programs for Development Consideration

- Diagnostic Medical Sonography
- Imaging Informatics
- Medical Dosimetry
- Nuclear Medicine Technology
- Special Imaging- CT, MRI