

RADIOGRAPHY

Associate of Applied Science (AAS)

(Meeting minimum requirements does not guarantee admission to the program)

TERM	Applications Accepted	Application Review	Interview Conducted	Application Status Notification
Fall: August 2024	Early Application Period Nov. 6, 2023 – Feb. 2, 2024	Nov. 15, 2023 – Feb. 16, 2024	Last week of Feb. – First week of March 2024	By March 29, 2024
	Regular Application Period Feb. 5, 2024 – June 3, 2024	Feb. 19, 2024 – June 17, 2024	Last week of June – Mid July 2024	By July 31, 2024
Application packet must be submitted via email: co.radradmit@hccs.edu				

Program Duration, Study Mode and Class Schedule Information

Program Duration(Number of Semesters)		Study Mode
Full Time: 6 semesters	Part-Time: N/A	Face-to-Face, and Offsite Clinical

Program days and times may vary but you should plan to attend classes 4-5 days a week. Day classes are generally between 8:00 a.m. to 4:30 p.m. Please plan accordingly to ensure you have proper transportation. There are clinical hours each semester. The number of clinical hours required will vary from semester to semester with a low of 8 hours and a maximum of 24 hours per week. There are some evening rotations that will go from 2:30pm to 11:00pm.

Program Admissions Statistics

On average, approximately 180 students apply for admission each application period. Of these, approximately 50 are typically accepted.

How Do I Submit An Application?

1. Apply to HCC:

If you are new to college or transferring to HCC, your first step is to become an HCC Eagle by submitting a free admissions application to HCC. Please create a profile and complete an application to obtain the HCC student ID number: <https://prod.applytexas.org/>. You will receive a welcome email response from HCC within 48 hours, be sure to save your HCCID-Number or P-Number/D-Number (if you are assigned one). If you have filled out an HCC application at any point, or you already have an HCC student ID number, please do not submit another HCC application. Multiple HCC new student applications and/or ID numbers are not allowed.

If you have not been enrolled for the past 3 semesters and returning to HCC will need to reactivate your HCC student account: [Returning Student Readmission | Houston Community College \(HCC\)](#)

Note: In addition to the HCC admission application, you must complete and submit a typed Radiography program application via email to co.radradmit@hccs.edu

2. Apply for Financial Aid (this step is applied for students who are seeking Financial Aid):

All students should apply for financial aid immediately after applying for admission to HCC. Filling out a financial aid application is the first step in learning your options to pay for college. HCC accepts financial aid applications throughout the year, submitting an application early will give you a better chance of securing aid.

- Free Application for Federal Student Aid (FAFSA) at fafsa.gov,
- Free Application for Texas Application for State Financial Aid (TASFA) at hccs.edu/tasfa.

If you need assistance paying for college, please visit the Coleman Financial Aid office for assistance or visit www.hccs.edu/applying-and-paying/financial-aid/

3. My Eagle HCC account checklist:

Please visit: myeagle.hccs.edu, review and take action on the HCC Policy Checklist and On-Boarding Checklist. **Your To-do List may have four types of checklist items** in your Student Center including Meningitis Vaccine and Texas Success Initiative requirements:

- **Meningitis Vaccine** – Required for all college students under the age of 22. For more information on requirements, resources & any religious, medical, or online students exemptions, please visit: [Meningitis](#)
- **Texas Success Initiative requirements** – If you have the "Texas Success Initiative College Readiness Requirements" Checklist on your pre-enrollment To-do List in the Student Center, you have to be placed into core courses one of two ways.
 - Have an approved exemption (reason) for not taking Texas Success Initiative Assessment 2.0 (TSIA2). Please visit: [Texas Success Initiative Assessment/ Exemption](#) for more information. **OR**
 - Take the Texas Success Initiative Assessment 2.0 (TSIA2). Please visit: [Texas Success Initiative Assessment](#) for more information.

4. Meet with HCC Coleman College Advisor:

At least once during the application acceptance period, an applicant must attend an In-Person/Virtual Program Information Session or must meet with an HCC Coleman Pathway Advisor or HCC Coleman Admissions Advisor via the phone or in-person or virtually at least once to ensure they are meeting all of the program admission criteria.

Applicants must submit proof with their program application, and this can be a Peoplesoft Student admin advisee note, email, or any other correspondence from HCC Coleman to the applicant.

5. Program Information Session:

Attend a virtual online or in-person Program Information Session at: [Radiography | Houston Community College - HCC \(hccs.edu\)](#) . If you have questions regarding the delivery of program information sessions, please contact via email at healthscience.info@hccs.edu.

6. Program Application:

In addition to the HCC admission application, you must complete and submit typed Radiography program application via email to co.radradmit@hccs.edu with:

- Copy of all transcript/s showing completion of the required prerequisite courses and recommended courses.
- HESI exam PDF result for required sections.
- Evidence of HCC Coleman college advisor advisee notes or email and any other applicable supporting documents by the application submission deadline.

(Please send all of the application documents in one email and label each attachment with the file name.)

To learn more about prerequisite & academic courses and HESI exam, please refer to the admission guide sections: [Program Application: Academic Course Requirements](#) & [Program Application: HESI Pre-entrance Exam Requirements](#).

7. Submit official transcripts:

Please submit your official sealed (unopened) transcript(s) from high school, GED, and any other colleges and/or Universities previously attended. ***If you have completed your courses at HCC, you do not need to submit an official transcript.*** We do not accept unofficial copies or official copies that have been opened. There are two ways to submit an official transcript from your high school or previous institution:

- **Submit Electronically:** Have an official PDF transcript electronically sent from approved service providers such as Credentials, Parchment, and National Student Clearinghouse to admissions@hccs.edu
- **Submit by Mail:** Please use the address: Houston Community College, Office of Admissions & Records, P.O. Box 667517, Houston, TX 77266-7517
- For transferring credits, please visit: <http://www.hccs.edu/support-services/transfers/transferring-credits/> for more information in order to apply all possible earned credits toward your future degree plan.
- All foreign transcripts must be evaluated for US equivalency and foreign transcripts must first be evaluated course-by-course by an approved evaluating agency. To find a list of approved evaluation companies, please visit [Foreign transcript/ Foreign Credit Evaluators](#). Then the official evaluation report must submit to HCC. The HCC Internal process can take up to 8 weeks for evaluation and transfer of course credits.
- **TSI/Placement Test:** Submit your TSIA2 score, not all new students are required to take the Texas Success Initiative Assessment 2.0 (TSIA2). In order to determine your level of college readiness and placement status, you should submit transcript from an accredited college/university/institution where you have satisfactorily completed college-level coursework or score reports from external tests like the SAT, ACT, AP, CLEP, IB, etc. Placements may be set from a variety of sources. Please refer to the link [Texas Success Initiative \(TSI\) College Readiness/ Placement Test](#) to learn about your options/exemptions to complete this requirement

For more information on transcript(s) submission, please visit: [Transcript\(s\)](#). It is the responsibility of the student to allow enough time for the evaluation of transcripts; please allow 6-8 weeks for evaluation and transfer of course credits.

To receive Prior Learning Assessment (PLA) credit towards admissions to the Radiography program, applicant should not have previously taken or attempted the course (by title), that is the same as the PLA credit for which he/she is applying. For more information on PLA you may visit <https://www.hccs.edu/resources-for/current-students/prior-learning-assessment/>

- **International Students:** If you are an international student planning to attend HCC on a status F-1, (DACA, refugee, L visa, H visa, etc.), please visit <https://www.hccs.edu/support-services/international-students/>.
- **Veteran students:** Please visit <https://www.hccs.edu/support-services/veteran-affairs/>. Download and complete [DD Form 214 & SF-180 Form](#) and submit with the application.

Program Application: Academic Course Requirements

Course Description	Credit Hours
Student Success Course Required only if new to college or transferring to HCC with less than 12 college level credits ➤ EDUC 1300 – Learning Framework	3
Prerequisite GPA Prerequisite GPA minimum 2.5 or above required.	
Prerequisite Courses	
➤ BIOL 2301 and BIOL 2101 (formerly BIOL 2401) – Anatomy & Physiology I (LEC/LAB) or BIOL 2404 (Must be completed within 5 years of the application deadline. No exceptions.)	4
➤ ENGL 1301 – English Composition I	3
➤ MATH 1314 – College Algebra or higher	3
Academic Courses Academic courses are <u>HIGHLY ENCOURAGED</u> to be taken in advance but are not required for the application. These courses will go towards the completion of the program/degree plan and will give you additional points on your application score.	
➤ PSYC 2301 – Introduction to Psychology OR SOCI 1301 – Introduction to Sociology	3
➤ 3 credits – Humanities/Fine Arts Elective Please check HCC Catalog https://catalog.hccs.edu to find out acceptable Humanities/Fine Arts courses or please contact program advisor via email at: david.pereida@hccs.edu	3
Recommended Courses Completion of the following courses are suggested for success in Prerequisite Course(s) will receive bonus points for each course.	
➤ HPRS 1201 – Introduction to Health Professions	2
➤ Medical Terminology (<i>choose from any of the following: HPRS 1106 or 1206, HITT 1205 or 1305, MDCA 1213 or 1313</i>)	1-3
Placement Test N/A	
If you would like to determine your eligibility by calculating your cumulative points earned, please use our Admission Rubric form. Highest scoring applicants will be invited for the interview process.	

HESI Pre-entrance Exam Requirements

The HESI A2- Admissions Assessment entrance exam is required to apply for **Radiography** program at HCC Coleman College.

- To schedule a HESI-A2 test please contact HCC Coleman College Testing Center at **713.718.5170** or via email: coleman.testing@hccs.edu .
- The payment of \$75.00 must be made by either credit or debit card.
- Required HESI-A2 Sections:
 - Anatomy & Physiology
 - Grammar
 - Vocabulary
 - Math
 - Reading
- Applicant must score 70% cumulative or higher in Reading, Vocabulary, Grammar, Math, and Anatomy & Physiology. Students may retake the unsatisfactory section(s) but recommended to wait at least 30 days before retesting.
- Students are allowed to submit up to two HESI transcripts to Houston Community College for the purpose of scoring.
- Scores are valid for 2 years (between June 1, 2022 and June 3, 2024).
- Please note HESI official scores must be downloaded directly from Elsevier/Evolve website on a **.pdf** format (regardless taken at HCC or outside of HCC) - No exceptions.
- The application will be declined if HESI- A2 exam result is not submitted with the application by the application deadline.
- Please note HESI Remediation through Elsevier is FREE.
- **How to obtain your HESI exam scores:**

To find your HESI exam scoring information on evolve.elsevier.com

 - Go to the [Students Welcome page](#).
 - Log in to your Evolve Account, then click “HESI Assessment– Studentaccess.”
 - Under the “My Exams” tab locate your exam
 - Click “View Results.”
 - Click “Results Report.”

Pre-Enrollment Process & Requirements (Upon Admission Offer)

When the number of eligible applications exceeds program seat availability, selective criteria are used to determine which applicants are offered admission. Selective criteria are awarded based on the following:

- **40%** will be awarded based on the grades earned from prerequisite courses, academic courses and recommended courses.
- **40%** will be awarded based on HESI cumulative scores in Reading, Vocabulary, Grammar, Math, and Anatomy & Physiology.
- **20%** will be awarded based on interview process
- All application requirements must be satisfied by the close of the application window.

If you offered admission into the program, then you will be asked to complete the following pre-enrollment requirements by a specific due date to maintain eligible status. Information on how to complete these requirements will be provided with your admission acceptance email. Please check your email regularly for updates and information.

- Complete and send the letter of Intent form by the deadline stated in the admission acceptance offer email that will be sent to your submitted email address with the program application.
- CPR certification required – American Heart Association (BLS) Healthcare Provider. Completion of CPR certification by program enrollment date.
- Proof of personal health insurance
- Physical exam.
- Immunization record showing: Completion of Hepatitis B immunization series (*may take up to 6 months*), Hepatitis C Status, MMR – 2 shots or titer, Tdap – every 10 years, TB skin test or chest X-ray – every year, Varicella – 2 shots or titer, Meningitis (required for students 22 years or younger) Completed by application deadline and Influenza – after September 1st
- Passing drug screen and background check prior to the start of fall class.
- Cleared Criminal Background - If you have ever been charged with or convicted in court of a misdemeanor or felony (including conviction of a similar offense in a military court-martial) you must contact the American Registry of Radiologic Technologists (ARRT) at 651-687-0048 for eligibility requirements. ARRT pre-eligibility approval for candidates who disclosed a positive criminal history. A positive criminal history will require the candidate to submit to the ARRT a pre-eligibility application at their own expense prior to program's new student orientation.
- Complete the mandatory program orientation and student service orientation on the date provided in your admission email.
(if you are offered admission, please clear your calendar so you are available to attend the mandatory orientations as follows: Fall Term – plan to attend Orientation between July and August)

➤ **Clinical Requirements for Program Progression & Completion**

To provide students with the most robust clinical educational experience and to ensure that students progress and graduate as scheduled, it is highly recommended that applicants weigh all of their options before agreeing to a conditional acceptance into their desired health science program. In order to facilitate this decision-making, students should understand all of the requirements of their program, including clinical education.

To be placed in a clinical educational experience, students must comply with the guidelines and requirements of HCC clinical sites, including health and wellness directives. Most clinical sites require background checks, health testing, drug screens and immunizations, including proof of COVID-19 vaccination.

Students are required to provide to HCC proof that students meet all clinical requirements, with the exception of their COVID-19 vaccination status. Consistent with state law, HCC does not mandate the COVID-19 vaccination. Students have the choice to voluntarily disclose or not disclose their COVID-19 vaccination status through their HCC Complio account.

However, most healthcare facilities do require the vaccine as a condition of employment, volunteering, or student clinical placement. If a student chooses not to disclose their COVID-19 vaccination status or is not vaccinated, HCC may not be able to place the student in clinical rotations. HCC will work to place such students into a clinical site that does not require the vaccine, provided such a site is available and HCC has an active affiliation agreement in place that meets the necessary conditions to provide an appropriate learning opportunity for the student. However, HCC cannot guarantee that clinical sites that do not require the COVID vaccine will be available at the time the student requires placement. At this time, many healthcare facilities are not accepting religious or medical exemptions for the COVID-19 vaccine for clinical students.

If a student chooses not to receive or to provide proof of COVID-19 vaccination and no clinical sites are available to accept the student that do not require the COVID-19 vaccination, the student's progression in the program and graduation will be delayed or stopped all together. If a student cannot be timely placed in a qualifying clinical site, a student may not be able to complete the program. Our affiliate partners' expectations are the same for our students as they would be when our students ultimately become employees in their chosen field.

Students with questions about clinical requirements and placement may contact the program director of their program of interest.

➤ **HB 1508 requires the following information be given to students:**

If you are applying for admission to a program that prepares an individual for an initial occupational license or certification and/or if you later decide to change to a program that prepares you for an initial occupational license or certification, in accordance with state law, please be advised of the following:

1. An individual who has been charged or convicted of an offense or who is on probation may not be eligible for issuance of an occupational license or certification upon completion of the educational program.
2. It is the responsibility of the individual to immediately report to the program any change in status that would affect that individual's eligibility to apply for a license or certification.
3. Local, state or national licensing and certification authorities may issue additional guidelines related to criminal history. Applicants should contact their respective licensing or certification authority for more details.

Most health care programs require all students - admitted to the program - to submit to a national background check which may include fingerprinting. Applicants are encouraged to review all applicable eligibility requirements related to the respective occupational license or certification. Questions related to eligibility requirements should be directed to the individual program and applicable licensing or certification authority.

➤ The **Radiography Program** requires participation in clinical rotations in order to complete the program. In order to participate in clinical rotations at our affiliate sites, certain background information must be verified. Students participating in clinical rotations must meet the same background verifications as clinical staff at our affiliate sites. For that reason, we require students to submit the following required background information before admission/enrollment in the program is completed.

1. Social Security Number Verification
2. Criminal Search (7 yrs. or up to 5 criminal searches)
3. Violent Sexual Offender and Predator Registry Search
4. OIG List of Excluded Individuals/Entities
5. GSA List of Parties Excluded from Federal Programs
6. US Treasury, Office of Foreign Assets Control (OFAC), List of Specially Designated nationals (SDN)
7. State Exclusive List <https://oig.hhs.texas.gov>
8. Driver's license or government issued identification

Please note. Verification of this information is the financial responsibility of the student and must be completed through the program-approved vendor – Complio.

➤ **HCC Coleman College Grading Scale**

To best prepare students for success in their chosen fields, Health Sciences Programs have high standards for progression. Unlike other HCC programs, the Radiography program requires a C (75%) or better to progress to the next course or semester in the program. For specific questions about grades, grading, and progression within Health Science programs, please contact Coleman College at healthscience.info@hccs.edu.

Radiography program Grading Scale

A = 100 – 90 %
B = 89 – 80 %
C = 79 – 75 %*
D = 74 – 60 %
F = 59 – 0 %

*A grade of C (75%) or better must be achieved to progress to the next course or semester.

Student ID: _____ Student Name: _____ Advisor Name: _____		Catalog: 2023-2024 HCC Catalog & Student Handbook Award: Radiography, A.A.S.		
Radiography, A.A.S.				
Prerequisites				
Prerequisite Semester				
Course Name	Credits:	Term Taken	Grade	TX Core
EDUC 1300- Learning Framework	Credits: 3			
MATH 1314- College Algebra	Credits: 3			
ENGL 1301 - Composition I	Credits: 3			
BIOL 2301- Anatomy & Physiology I (Lecture)	Credits: 3			
BIOL 2101-Anatomy & Physiology I (lab)	Credits: 1			
Semester Total: 13				
First Year				
First Semester - Fall				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 1303 - Patient Care	Credits: 3			
RADR 1301 - Introduction to Radiography	Credits: 3			
RADR 1411 - Basic Radiographic Procedures	Credits: 4			
RADR 1160 - Clinical-Radiologic Technology/ Science-Radiographer	Credits: 1			
• XXXX #3## - Humanities/Fine Arts Elective Credits: 3 ¹				
Semester Total: 14				
Second Semester - Spring				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 1313 - Principles of Radiographic Imaging I	Credits: 3			
RADR 2401 - Intermediate Radiographic Procedures	Credits: 4			
RADR 1266 - Practicum (or Field Experience) - Radiologic Technology / Science-Radiographer	Credits: 2			
Semester Total: 9				
Third Semester - Summer				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 2260 - Clinical-Radiologic Technology/ Science-Radiographer	Credits: 2			
RADR 2331 - Advanced Radiographic Procedures	Credits: 3			
Semester Total: 5				
Second Year				
First Semester - Fall				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 2333 - Advanced Medical Imaging	Credits: 3			
RADR 2366 - Practicum (or Field Experience) - Radiologic Technology/ Science-Radiographer	Credits: 3			
PSYC 2301 - General Psychology <i>OR</i>	Credits: 3			
SOCI 1301 - Introduction to Sociology	Credits: 3			
RADR 2309 - Radiographic Imaging Equipment	Credits: 3			10

Semester Total: 12				
Second Semester - Spring				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 2217 - Radiographic Pathology	Credits: 2			
RADR 2367 - Practicum (or Field Experience) - Radiologic Technology / Science-Radiographer	Credits: 3			
RADR 2213 - Radiation Biology and Protection	Credits: 2			
Semester Total: 7				
Third Semester - Summer				
Course Name	Credits:	Term Taken	Grade	TX Core
RADR 2335 - Radiologic Technology Seminar	Credits: 3			
(Capstone)				
RADR 2167- Practicum (or Field Experience) Radiologic Technology /Science-Radiographer	Credits: 1			
Semester Total: 4				
Total Minimum Credits for the AAS Degree: 64				
Notes:				

Estimated Costs

Tuition is estimated using the Texas resident rates. Out of district and out of state residents will have a higher tuition fees. Please visit <http://www.hccs.edu/applying-and-paying/tuition-calculator/> for more information.

Tuition is for core coursework only. General Education and Support courses are not included. These are high estimates; actual costs will vary depending on health insurance coverage.

Due to increases/decreases in books and supplements, please check the book store website at <http://hccs.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=19561&catalogId=10001&langId=-1> for updated cost information. Only required books are included in the estimate.

Pre-Entrance	
Criminal Background/DrugScreening	\$95.00
Physical Exam	\$ -
Immunization	\$425.00
HESI Test	\$75.00
Trajecsys (online clinical tracking)	\$150.00
Medical Insurance	varies
Supplies	\$100.00
Sub Total	\$ 845.00
1st Semester (14 semester hours)	
Tuition	\$1,187.00
Books	\$300.00
Uniforms	\$300.00
Lab Fees	\$20.00
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Parking (4 months)	varies
Sub Total	\$ 1,834.00
2nd Semester (9 semester hours)	
Tuition	\$766.50
Books	\$100.00
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Lab Fees	\$10.00
Parking (4 months)	varies
Sub Total	\$ 903.50
3rd Semester (5 semester hours)	
Tuition	\$428.50
Books	\$ -
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Lab Fees	\$10.00
Parking (2 months)	varies
Sub Total	\$ 465.50

4th Semester (12 semester hours)	
Tuition	\$1,020.00
Books	\$100.00
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Parking (4 months)	varies
Recheck for Criminal Background/Drug Screening	\$35.00
Sub Total	\$ 1,182.00
5th Semester (7 semester hours)	
Tuition	\$597.50
Books	\$110.00
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Parking (4 months)	varies
Sub Total	\$ 734.50
6th Semester (4 semester hours)	
Tuition	\$344.00
Books	\$100.00
Lab Fee	\$10.00
Liability Insurance	\$15.00
Radiation Badge Fee	\$12.00
Parking (2 months)	varies
AART Registry Exam	\$200.00
TMB License & Finger Print	\$130.00
TMB Jurisprudence Exam	\$34.00
Sub Total	\$ 845.00
Grand Total	\$6,740.50

Paying For College

You can use a valid MasterCard, Visa, Discover, or American Express card to pay for tuition and fees. You can also use debit card with Visa or MasterCard logo, but not a non-USA credit card. Online payment via check is also available.

Check or echeck payments have a 10 day hold on release of official transcripts. International students or their parents can also pay online from their country of origin with their local currency, where applicable. Online payment from other countries can be made through “International Fund Transfer” payment option.

➤ Additional Options for Payment

Financial Aid

If you need assistance paying for college, please visit the Coleman Financial Aid office for assistance or visit www.hccs.edu/applying-and-paying/financial-aid/

Scholarships

In addition to federal and state aid, scholarships are a great way to offset all or part of the cost of your education. Please visit <https://www.hccs.edu/applying-and-paying/financial-aid/scholarships/> for more information.

Installment Payment Plan

If you are paying out of pocket and need assistance on how to setup a payment plan please visit Business Office at HCC Coleman or visit <https://www.hccs.edu/applying-and-paying/student-financial-services/> for more information.

Program Information

Accreditation Agency

Program accreditation through joint Review Committee on Education in Radiologic Technology

Licensure Testing

Graduates are eligible to take the American Registry of Radiologic Technologists (AART) exam.

Employment Opportunities

Radiologic Technologists may work in hospitals, physicians’ offices, diagnostic imaging centers and outpatient care centers.

Average Salary

Entry- level salaries are in range between \$39,840 and \$57,940. Find out the entry level wages, the medium wages and high wages for each career field in High School or less, Vocational Certificate, Associate's degree, Bachelor's degree and Graduate degree: [Career Coach | Houston Community College \(HCC\) | We are Houston's Community College \(hccs.edu\)](#)

Questions

For further assistance on program admission requirements, please email us at: coleman.advising@hccs.edu

Required Essential Functions

Functional Capacity	Standards (Tasks)
Psychomotor Skills	
Gross Motor	<p>Use either control mechanisms or direct physical activity to operate machines, equipment and/or systems (e.g., vital sign monitors, radiography c-arm, stretchers, wheelchairs, emergency crash carts, etc.).</p> <p>Multi-limb coordination (e.g., coordinate two or more limbs, for example, two arms, two legs, or one leg and one arm) while sitting, while standing, while laying down. (It does not involve performing the activities while the whole body is in motion).</p> <p>Stand unassisted for long periods (e.g., three to five (3-5) hours in surgery; two to three (2-3) hours in fluoroscopy).</p>
Fine Motor	<p>Sustain repetitive movements (e.g., quickly and repeatedly adjust the controls of a machine to exact positions).</p> <p>Make precisely coordinated movements to grasp, manipulate, or assemble very small objects.</p> <p>Key/type and otherwise operate common desktop computer accessories.</p>
Physical Strength & Endurance	<p>Keep hand and arm steady while moving arm or while holding arm and hand in one position.</p> <p>Transfer and position patients/clients, and move and operate equipment (e.g., stretchers and wheelchairs).</p> <p>Lift up to 25 pounds for short distances.</p> <p>Push and pull heavy objects (e.g., up to 25 pounds; assist in moving patients weighing up to 400 pounds).</p>
Mobility	<p>Ambulate to various locations for portable procedures.</p> <p>Climb, lift, balance, maneuver, stoop, move, and handle objects (e.g., reach equipment at heights greater than six (6) feet).</p> <p>Install, position, and manipulate materials and supplies.</p>
Cognitive Skills	
Critical & Analytical Thinking	<p>Use scientific rules and methods to solve problems.</p> <p>Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).</p> <p>Problem sensitivity (e.g., identify when something is wrong or is likely to go wrong; it does not involve solving the problem, only recognizing there is a problem).</p> <p>Apply general rules to specific problems to produce answers that make sense.</p> <p>Keep up-to-date technically and apply new knowledge to your job.</p> <p>Use computers and computer systems to program, enter data, or process information.</p>

Safety	<p>Maintain awareness of alarms and emergency signals, and respond appropriately (e.g., monitors, fire alarms, hospital codes, etc.).</p> <p>Protect self and others from environmental risks and hazards.</p> <p>Manage and maintain environment that is safe for the individual, family, groups, and health care personnel.</p> <p>Abide by safety policies and procedures in classroom, laboratory, and clinical facility settings.</p>
Sensory Skills	
Observation	<p>Observe and recognize objects at close range (e.g., 6-20 feet).</p> <p>Observe patients'/clients' condition.</p> <p>Discern fine lines, distinguish gradual changes in blacks, grays, and whites (e.g., evaluate medical images for appropriate positioning and image quality).</p>
Perception	<p>Perceive verbal and nonverbal communication by others (e.g., respond to patients'/clients' verbal inquiries).</p> <p>Perceive faint or muffled communication (e.g., when the use of surgical masks is required).</p>
Interpretation	<p>Observe and monitor gauges, dials, or other indicators to ensure a machine is working properly.</p> <p>Recognize and understand readings on radiographic/imaging equipment.</p> <p>Enter, transcribe, record, store, or maintain information in written or electronic/magnetic form.</p> <p>Initiate timely response to alarms and emergency signals (e.g., monitors, fire alarms).</p>
Social-Behavioral Skills	
Communication	<p>Demonstrate English language proficiency to communicate and interact with patients/clients and health care team members (e.g., communication that is clear and easy to understand).</p> <p>Use proper communication techniques in printed and typed correspondence (e.g., correct grammar, punctuation, and spelling).</p> <p>Correspond via telephone using proper technique and etiquette.</p> <p>Actively listen (e.g., give full attention to what other people say, take time to understand the points being made, ask questions as appropriate, and do not interrupt at inappropriate times).</p> <p>Teach, instruct, and/or explain procedures (e.g., advise others how to do something with step-by-step instructions).</p> <p>Communicate with other personnel involved in the care of patients/clients.</p>
Adaptability	<p>Be open to change (positive or negative), and to considerably variety in the workplace.</p> <p>Adapt effectively to changing environments and increasing tension levels in a variety of situations.</p> <p>Demonstrate flexibility and learn to function in the face of uncertainties and ambiguities inherent in the clinical problems of many patients/clients.</p>

<i>Functional Capacity</i>	<i>Standards (Tasks)</i>
Emotional Stability	<p>Demonstrate reliability, responsibility, and dependability, and fulfill obligations.</p> <p>Focus sustained attention on tasks.</p> <p>Attention to detail (e.g., demonstrate careful, nuanced attention, and thorough completion of work tasks).</p> <p>Tolerate taxing workloads and function effectively under stress.</p> <p>Monitor and appropriately regulate own emotions to maintain composure, without prompting (e.g., control anger and avoid aggressive behavior, even in very stressful or demanding situations).</p> <p>Display a good-natured, cooperative attitude, and be pleasant with others on the job and in the educational setting.</p> <p>Recognize constructive criticism and performance feedback as avenues for improvement.</p>
Interpersonal Skills	<p>Actively look for ways to help people.</p> <p>Adjust actions in relation to other's actions.</p> <p>Be aware of others' reactions and understand why they react as they do.</p> <p>Provide personal assistance, medical attention, emotional support, or other personal care to others such as co-workers, customers, and patients/clients.</p> <p>Observe, receive, and otherwise obtain information from all relevant sources.</p> <p>Demonstrate sensitivity to others' needs and feelings, and be understanding and helpful on the job.</p> <p>Develop mature, sensitive, and effective relationships with health care team members and patients/clients.</p>
Ethics & Professionalism	<p>Monitor/assess performance of yourself, other individuals, or organizations to make improvements or take corrective action.</p> <p>Demonstrate a strong work ethic, honesty, and ethical judgement.</p> <p>Exude willingness to take on responsibilities and challenges.</p> <p>Establish and maintain personally challenging achievement goals and exert effort toward mastering tasks.</p> <p>Protect patients'/clients' privacy and confidential information (e.g., adhere to HIPAA restrictions).</p>