



## PREFACE

WVU Hospitals offers an 18-month, 40 hour-per week education program in Diagnostic Medical Sonography. It is designed to provide students with the basic knowledge and principles necessary to perform sonographic procedures in the clinical setting. The program is hospital based and is accredited by The Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). The essentials and guidelines for accreditation are available to students to read and may be found in the office of the Program Director.

WVU Hospitals awards a certificate to each student who satisfactorily completes all courses of study and fulfills all clinical requirements of the program. Upon graduation, students are eligible to sit for several registry exams offered by the American Registry of Diagnostic Medical Sonographers. In addition, students are also eligible to sit for the certification exam in Sonography held by the American Registry of Radiologic Technologists. One stipulation beginning in January of 2015 is that for a student to be eligible to take the ARRT Sonography Exam, the student must hold an academic degree. Associate degree or higher will be mandatory.

Students enrolled in the program are regarded as mature, responsible individuals seeking education in the field of ultrasound. They are not considered employees of the hospital or students of West Virginia University.

The following information has been prepared to inform the students of both policies and procedures of the ultrasound facilities as well as the didactic and clinical requirements expected of them during this educational endeavor.

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## **Mission Statement**

The Diagnostic Medical Sonography education program at West Virginia University Hospitals withholds a mission to develop entry-level diagnostic medical sonographers through comprehensive didactic and clinical education in Diagnostic Medical Sonography. In addition, this program strives to provide the necessary skills for professional growth and career advancement in the imaging sciences.

Through continued technological advancement and strong commitment to medical education, West Virginia University Hospitals provides the foundation on which students can cultivate and expand their imaging skills in the diagnostic medical sonography discipline.

## **Goals**

1. To prepare competent entry-level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
2. To develop effective communication skills.
3. To utilize critical thinking / problem solving skills.
4. To reinforce professional behavior.
5. To integrate professional growth and development practices.

**Policy Change**

The administration of the West Virginia University Hospital's and the Faculty of the West Virginia University Hospital's Program of Radiologic Technology reserve the right to change any of the stated policies as necessary and/or when advisable for improvement of or to meet new standards within the program.

\_\_\_\_\_  
Education Coordinator

\_\_\_\_\_  
Date

## **DMS Admissions Policy**

### **Policy**

West Virginia University Hospitals and those responsible for the administration of the Radiologic Technology Education Programs consider each applicant without regards to race, religion, color, national origin, ancestry, age, sex, sexual orientation, gender identity, disability, veteran status or any other status protected by applicable law. Although accredited to enroll up to **3 students** each academic year, program officials reserve the right to limit enrollment based upon the quality of the applicant pool and current employment market conditions. Admission to the Diagnostic Medical Sonography Program is governed in accordance with the following minimum admission requirements.

### **Requirements for Admission Consideration**

All of the following criteria are required for admission consideration and documentation must be received on or before February 1st of the year in which the student is applying for admission.

1. Applicant must review the Essential Performance Standards form located on the program's web-site ([www.wvuradtech.com](http://www.wvuradtech.com)).
2. The Applicant **must** be a graduate of a JRC-ERT Accredited Radiologic Technology Program.
3. Applicant must submit the following by February 1<sup>st</sup> to be considered for the program starting in July each year:
  - a. Program Application
  - b. Three Personal Reference Forms
  - c. Official transcript of high school grades or G.E.D. scores
  - d. Official transcripts of all post-secondary education (radiography school, college, etc.)
  - e. American College Test (ACT) scores **or** Scholastic Aptitude Test scores
    - i. Minimum required composite score: **ACT-19, SAT - 900.**
    - ii. Requirement may be waived for applicants possessing a baccalaureate degree.
    - iii. ACT School Code - 4549      SAT School code - 3863

### **Academic Evaluation**

Program officials utilize an established, objective screening mechanism to assign academic points to a candidate based on their currently level of academic achievement. The following categories are evaluated in assigning academic points

1. ACT Composite score or SAT (Critical Reading & Math) score.
2. Radiography program grades to include:
  - a. Cumulative GPA/ Weighted Average
  - b. Physics
  - c. Anatomy & Physiology
  - d. Radiographic Procedures & Positioning
  - e. Applied Radiographic Procedures (Clinic)
3. College Level coursework (Non-Radiography program)
  - a. Algebra, statistics, or higher mathematics course (cumulative)
  - b. General college-level physics and/or radiographic physics (cumulative)
  - c. Communication skills (cumulative)
  - d. Human anatomy and physiology (cumulative)

Communication skills requisite may be met by a variety of courses including English, speech or composition.

4. College / University Credit (based on GPA relative to number of hours completed)
5. College / University degree (BA, BS, MA, etc)
6. Healthcare experience

### **Interview Evaluation**

Interviews are granted to the top 12 academic candidates each year; however, the Education Coordinator reserves the right to limit or expand this number based on the quality of the applicant pool. Applicants not receiving an interview will be notified by mail. Interviews will be conducted in March of each year and candidates will be notified of their admission status no later than April 1<sup>st</sup> of each year.

Interviews are conducted by an Admissions committee consisting of a least 3 members selected by the education coordinator and may include faculty members, department managers and /or clinical staff. Using a standardized form, total interview scores from each committee member will be calculated and averaged for each candidate. Candidates must score a minimum average of **25 interview points** (out of a possible 40) to be considered eligible for admission to the program. (See Interview Form).

### **Overall Evaluation**

The Education Coordinator will combine the Academic & Interview points into a cumulative score for each candidate and will rank the candidates in descending order. The Admission committee will review the scores and finalize the assessment by assigning up to **5 additional points** to the candidates score based on programmatic / institutional fit, and the candidates projected ability to be successful in the program. All points will be summated and a Total Point score will be assigned.

### **Selection**

The Education Coordinator will rank the candidates in descending order and will extend offers up to the 3 candidates having the highest Total Points scores. The next 2 candidates will be waitlisted in the event one or more of the top 3 candidates do not accept the position. Waitlisted positions expire once a class is filled and do not carry over to the next admission year.

The candidates selected for admission will receive:

- a. Acceptance letter
- b. Access information for the student handbook
- c. Statement of Intent To Enroll (to be signed and returned)
- d. Essential Performance Standards Form
- e. Invoice for Admission Fee

All other applicants interviewed will receive a written verification of their non-admission or waitlisted status.

### **Acceptance**

The selected applicants will be given approximately 10-15 business days to respond to the offer of admission by completing the following prior to the established deadline:

1. Read the Student Handbook
2. Sign and return the Statement of Intent to Enroll form
3. Sign and return the Essential Performance Standards form
4. Submit a \$50.00 check to WVUH for the admissions fee.

If an applicant fails to respond to the offer of admission by the established deadline, program officials will consider the offer as null and void, and will proceed by offering the position to a wait-listed applicant.

### **Enrollment**

Enrollment is contingent upon the student satisfactorily completing the following screening and assessment procedures within the guidelines specified by West Virginia University Hospitals (WVUH). These screenings will

be conducted during the orientation time frame or at a time specified by program officials. Students will be provided with additional information regarding these procedures prior to the program start date.

Students will be required to:

- (1) Complete a health assessment and a vaccination record review conducted by the Employee Health department.
- (2) Complete the criminal background investigation process. (See WVUH Policy V.036)
- (3) Complete the drug screening / testing process. (See WVUH Policy V.035)
- (4) Complete all other WVUH mandatory orientation procedures.

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Education Coordinator

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Date

**Weighted Values for Applicant Admission Points**

The following values will be assigned to the applicant's previous academic achievements and the personal interview. Points assigned to each candidate will be summated and utilized as criteria for admission consideration:

**I. ACT/SAT scores**

<b><u>ACT Composite Score Range</u></b>	<b><u>SAT Score Range</u></b>	<b><u>Points Assigned</u></b>
19 - 20	900 - 970	2
21 - 22	980 - 1040	3
23 - 24	1050 - 1120	4
25 - 26	1130 - 1200	5
27 - 28	1210 - 1280	6
29 - 30	1290 - 1350	7
31 - 32	1360 - 1430	8
>32	1440 - 1600	9

**II. Radiography Curriculum**

Applicants are assigned the following values for each of the following the Radiography program categories:

	<b><u>G.P.A</u></b>	<b><u>Points Assigned</u></b>
Cumulative GPA / Weight Average	3.6 - 4.0	5
	3.0 - 3.59	4
	2.0 - 2.99	3

<b><u>Courses</u></b>	<b><u>Letter Grade</u></b>	<b><u>Points Assigned</u></b>
Physics	A	5
Anatomy & Physiology	B	4
Radiographic Procedures & Positioning	C	3
Applied Radiographic Procedures (Clinic)		

**III. College Coursework**

Applicants are assigned points for each of the following categories relative to the grade the student achieved in the course(s). Multiple courses completed in each category are averaged:

<b><u>Courses</u></b>	<b><u>Letter Grade</u></b>	<b><u>Points Assigned</u></b>
College Algebra, Statistics or higher (cumulative)	A	5
Physics	B	4
Human Anatomy & Physiology	C	3
Communication Skills (cumulative)		

\*Communication skills may be met with English, Speech or Composition

**IV. College / University Credits**

College credits points are awarded to non-degree students based on the students GPA relative to the number of credit hours completed. Points are awarded to those students who have not completed a degree program prior to admission consideration.



**3 - 29 Credit Hours**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	3
3.0 – 3.59	2
2.0 – 2.99	1

**IV. College / University Credits cont.****30 - 58 Credit Hours**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	4
3.0 – 3.59	3
2.0 – 2.99	2

**60 - 87 Credit Hours**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	5
3.0 – 3.59	4
2.0 – 2.99	3

**87+ Credit Hours**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	6
3.0 – 3.59	5
2.0 – 2.99	4

**V. Graduate / Undergraduate Degree**

Points awarded for college degrees are based on the student's cumulative GPA.

**Baccalaureate Degree**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	8
3.0 – 3.59	7
2.0 – 2.99	6

**Graduate Degree**

<u>GPA</u>	<u>Points Assigned</u>
3.6 – 4.0	10
3.0 – 3.59	9
2.0 – 2.99	8

**VI. Healthcare experience**

Points are assigned to candidates that document healthcare related work experience not including their clinical education.

<u>Category</u>	<u>Points Assigned</u>
Health related work experience $\geq$ 3 years	6
Health related work experience $\geq$ 2 years	4
Health related work experience $\geq$ 1 year	2

**VII. Interview points**

Individual interviewer points in the following categories are summated and averaged to obtain an overall average interview score (See Interview form).

<u>Category</u>	<u>Points Assigned</u>
Appearance	0 -5
Affability/Attentiveness	
Emotional Stability	
Personality	
Communication Skills	
Comprehension	
Knowledge of Profession	
Initiative & Drive to Succeed	
Initiative towards Program Admission	

**VIII. Programmatic / Institutional Fit**

Points are awarded by the Admission committee relative to the candidates programmatic fit and projected ability to successfully complete the program based upon their Interview Score.

<b><u>Category</u></b>	<b><u>Points Assigned</u></b>
Interview Score	
40-45	5
35-39.9	3
<35	0

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Education Coordinator

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Date

## **Mandatory Orientation Policy:**

### **Policy:**

The West Virginia University Hospitals, School of Diagnostic Medical Sonography Program requires that students attend the two day scheduled orientation.

In the event that the student would be unable to attend this orientation, the student's personal time will be deducted. The total time deducted from the personal time off is **twelve hours** (1.5 days) from the seventy two hours given at the beginning of the program.

In addition, any student that was not present for the orientation will be provided the handouts and given a list of required items that will need to be completed on their own time. Required items that will need completed include but are not limited to as follows:

- (1) **Obtaining a Hospital Parking Pass**

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**Program Director**

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**Date**

### **Personal Time Off (PTO)**

Students are given a total of nine (9) days of Personal Time Off (PTO) during the 18 months they are enrolled in the program. This time is to be used for both personal reasons and in the event of an illness. Any time taken in excess of these (9) days must be made up.

### **Vacation and Holidays**

Students are granted four weeks of vacation during the 18-month program. Vacation time is designated by the Education Coordinator. The first two weeks of vacation take place in December and January. The spring/summer break is held the week following the 2<sup>nd</sup> semester end. A final week of vacation is taken in the fall of the student's final semester with the official date to be determined by the education coordinator.

### **Outside Employment**

Part-time employment by the student cannot interfere with the Program. Students are expected to be available for all didactic and clinical education as required by program guidelines.

### **Financial Aid**

Although WVUH Diagnostic Medical Education Program is fully accredited by CAAHEP, due to changes in financial aid guidelines it is not eligible for financial aid.

### **Libraries**

Two libraries of reference books and periodicals are maintained: the Department of Radiology library and the WVU Medical Center library. Students also have access to textbooks in the ultrasound lab as well as the Education Coordinator's office. An official list of the textbooks and reference materials available can also be found in the Coordinator's office. Students have the privilege of using any of this material for their studies.

**All reference material must be checked out and returned on schedule. A lost book or reference must be replaced at the student's expense.** A form for checking out any reference material can be obtained through the education coordinator. 5 days is the maximum for any reference material to be checked out of the office.

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## **Attendance Policy**

A student's daily attendance is vitally important in order for them to maintain satisfactory didactic and clinical performance. Students that miss exceptional amounts of clinic time will find it difficult to acquire the exams needed to fulfill their clinical education requirements. Students need to realize that poor attendance during their education can have a negative effect on their future. Employers tend to be wary of student applicants that have a record of excessive absenteeism. It is natural to relate absenteeism with a poor work ethic and a lack of commitment to the profession.

### **Personal Days Off: (PDO)**

Personal days off (PDO) may be utilized for unscheduled absences (illness, personal emergency, etc.) and scheduled absences (job interviews, doctor appointments, etc.).

#### *Twelve-month programs:*

The student will be allotted six (6) personal days off (48 hours PDO) for a twelve-month program. In addition, each school year will include three (3) weeks of leave to include: 2 weeks over the Christmas / New Year holiday, and one week in the spring.

#### *Eighteen-month programs:*

The student will be allotted nine (9) personal days off (72 hours PDO) for an eighteen-month program. In addition, each school year will include four (4) weeks of leave to include: 2 weeks over the Christmas / New Year holiday, one week in June, and a final week in the fall which is determined by the education coordinator.

### **Scheduled & Unscheduled Absences:**

1. It is the student's responsibility to notify both the Program Director and Clinical Rotation site when calling to report off for illness or other personal emergencies. Notification must be received by a Program Official no later than 30 minutes prior to the beginning of the student's assigned shift. Failure to call a Program Official in a timely manner will result in the student receiving an unexcused absence for that day. Students are required to leave a message on the phone mail system of the Program Director and the clinical rotation site.
2. In addition to calling off, students must document their absence by completing a Personal Leave Request form in Trajecsys. Comp time may not be utilized for unscheduled absences.
3. Students that miss consecutive days due to an illness will be charged only one (1) personal day off (8 hours PDO) for every three (3) days of absence, providing the student has a valid medical excuse from a physician stating the amount of time that the student is excused. The provision does not apply to time missed due to illnesses or incapacitation related to elective procedures or surgeries. Please refer to the Medical Leave of Absence policy regarding extended illnesses.
4. PDO and comp time shall be granted in minimum increments of 1 hour for both scheduled and unscheduled absences, unless previously approved by the Program Director.
5. Students requesting time-off for non-emergent reasons should pre-schedule PDO or comp time with program officials by the end of their shift at least one (1) day prior to the requested time off. Students should complete a

Personal Leave Request form in Trajecsys and inform the Program Director as soon as the form has been submitted to ensure prompt review.

### **Excessive Absenteeism**

This policy serves to identify the procedure and criteria implemented when a student exceeds their allotted number of personal days off (PDO).

1. Excessive absenteeism will not be tolerated. If a student exhausts their allotted PDO days, they will be subjected to the following disciplinary action.

#### *Twelve-month programs:*

- a. If the 6 allotted PDO days are exhausted, the student will receive documented counseling regarding their attendance and 1 point will be deducted from their overall clinical grade.
- b. If 2 additional days are missed (total 8), the student will receive a second formal written warning regarding their position in the Program and 2 additional points will be deducted from their overall clinical grade (total 3).
- c. If 2 more additional days are missed (total 10), the student will receive a final formal written warning regarding their position in the Program and 2 additional points will be deducted from their overall clinical grade (total 5).
- d. If the total amount of days absent exceeds 10, then the student will be dismissed from the Program if any additional absences occur. Students will be evaluated on an individual basis as to the circumstances causing the absenteeism.

#### *Eighteen-month programs:*

- a. If the 9 allotted PDO days are exhausted, the student will receive documented counseling regarding their attendance and 1 point will be deducted from their overall clinical grade.
- b. If 2 additional days are missed (total 11), the student will receive a second formal written warning regarding their position in the Program and 2 additional points will be deducted from their overall clinical grade (total 3).
- c. If 2 more additional days are missed (total 13), the student will receive a final formal written warning regarding their position in the Program and 2 additional points will be deducted from their overall clinical grade (total 5).
- d. If the total amount of days absent exceeds 13, then the student will be dismissed from the Program if any additional absences occur. Students will be evaluated on an individual basis as to the circumstances causing the absenteeism.

2. In the event that a student exceeds their allotted PDO days, their clinical education will be extended beyond graduation so that all clinical requirements can be satisfied. However, the clinical education process cannot be extended beyond 5 days after graduation. All absences over the allotted PDO days will be considered as unexcused absences and will result in documentation of unsatisfactory attendance on the final transcript.

3. In accordance with the Standards of an Accredited Educational Program in Radiologic Sciences, with regard to the maximum hours of clinical and didactic instruction, students will not be permitted to make-up their excessive missed time by extending their hours in clinic on a daily basis.

## **Unexcused absences**

Unexcused absences are classified as the following:

1. Leaving the facility grounds without a program official's permission.
2. Leaving your assigned clinical area without program officials or a staff technologist's permission.
3. Failure to notify program officials prior to your assigned shift of an unscheduled absence.
4. Absences that occur as a result of disciplinary action (e.g. suspension) or those in excess of the allotted 6 PDO days for twelve month programs or 9 PDO days for eighteen month programs.

In the event that a student incurs an unexcused absence, the Disciplinary Action policy will be implemented. It is mandatory for all students to make-up, after graduation, any time missed as a result of an unexcused absence so that all clinical requirements can be satisfied. As with the excessive absenteeism policy, the clinical education process cannot be extended beyond 5 days after graduation for unexcused absences.

## **Tardiness**

*Students are required to be in their assigned clinical or didactic area and fully prepared to begin the daily clinical assignments prior to or by their designated starting time.* Students should be aware that falsifying attendance records is grounds for immediate dismissal.

Tardiness is subject to the following guidelines and provisions:

- a. Tardiness is considered as any arrival time that is more than 7 minutes past the designated start of the student's shift.
- b. Tardiness beyond 30 minutes will result in the student being charged 0.5 days (4 hours) of PDO.
- c. Failure to notify program officials 1 hour beyond the designated time of arrival will result in the student receiving a written warning.
- d. Excessive tardiness will not be tolerated and will result in a reduction in Clinical Points which will negatively affect the student clinical grade. Continued abuse will additionally result in disciplinary action and will result in documentation of "unsatisfactory attendance" on the final transcript.
- e. Exceptions to this policy will be at the program official's discretion and will be limited to unforeseen events.

**Tardiness will be governed by the following limits and corresponding corrective actions:**

*Twelve-month programs:*

- a. Upon the occurrence of three incidences of tardiness, the student will be issued an oral warning and 1 point will be deducted from their clinical grade.
- b. Upon the occurrence of three additional incidences of tardiness (total of 6), the student will be issued a formal written warning and 2 additional points will be deducted from their clinical grade (total 3).
- c. Upon the occurrence of three additional incidences or tardiness (total of 9), the student will be issued a second formal written warning and 2 additional points will be deducted from their clinical grade (total 5). At this level, the student's attendance will also be marked as "unsatisfactory" on their final grade transcript.
- d. Upon the occurrence of one additional incident of tardiness (total of 10), the student will be issued a third formal written warning which will result in their subsequent dismissal from the program.

*Eighteen-month programs:*

- a. Upon the occurrence of three incidences of tardiness, the student will be issued an oral warning and 1 point will be deducted from their clinical grade.
- b. Upon the occurrence of three additional incidences of tardiness (total of 6), the student will be issued a formal written warning and 2 additional points will be deducted from their clinical grade (3 total).
- c. Upon the occurrence of three additional incidences of tardiness (total of 9), the student will be issued a second formal written warning and 2 additional points will be deducted from their clinical grade (5 total). At this level, the student's attendance will also be marked as "unsatisfactory" on their final grade transcript.
- d. Upon the occurrence of three additional incidences of tardiness (total of 12), the student will be issued a third formal written warning which will result in their subsequent dismissal from the program.

**Funeral Leave**

Students will be given a maximum of three (3) days excused absence for deaths in their immediate family. Immediate family shall include: husband, wife, child, mother, father, brother, sister, mother-in-law, father-in-law, and grandparents. Exceptions to this policy may be granted only by the Program Director.

Students needing to utilize funeral leave will be required to submit a Leave Request form in the Trajecsys Report System and notify a program official of submission as soon as possible, prior to being absent.

**Military Leave**

West Virginia University Hospitals supports the Military Services of the Government of the United States and provides the following provisions for students serving in the Military Reserves during their enrollment in the program.

- a. Students serving in any branch of the U.S. Military Reserves are allotted 2 weeks (10 days) of leave per academic year to fulfill their required military commitment. Students that miss additional time (>10 days) due to military service will be required to utilize personal leave or arrange an acceptable time frame in which to make-up the time missed so that the program's clinical requirements can be fulfilled. Make-up time is subject to the Education Coordinator's discretion and subsequent approval.
- b. Students are responsible for all didactic and clinical course materials presented during their absences related to military service.
- c. In the event that a student is called-up to active military duty, the program will reserve a position for that student so that they can be re-enrolled upon the completion of their active duty assignment.

**Vacation and Holidays**

*Twelve-month programs:*

Students are granted three (3) weeks of vacation during their 12 month enrollment in the Program. Vacations are scheduled as two (2) weeks over Christmas/New Year's and one week in the spring. Program officials reserve the right to alter vacation dates.

Students are granted seven (7) holidays per year which include the following:

**New Year's Day  
Memorial Day  
Independence Day (July 4th)**

**Thanksgiving AND Friday after Thanksgiving  
Labor Day  
Christmas**



*Eighteen-month programs:*

Students are granted one (1) week of vacation during each semester enrolled in the Program. Vacations are scheduled as two (2) weeks over Christmas/New Year's, one (1) week in June and the final week of vacation being held in the fall. The final week in the fall is determined by the education coordinator. Program officials reserve the right to alter vacation dates.

Students are granted seven (7) holidays per year which include the following:

**New Year's Day**

**Memorial Day**

**Independence Day (July 4th)**

**Thanksgiving AND Friday after Thanksgiving**

**Labor Day**

**Christmas**

## **Attendance Documentation**

Students are required to document their attendance by using the Trajecsys Report System.

### **Using PDO or Compensatory Time:**

Students desiring to use PDO or Compensatory Time will be required to submit a Leave Request form in the Trajecsys Report System and notify a program official of submission by the end of their shift at least one (1) day prior to the requested time off. The exact number of hours to be taken must be marked, appropriate designation must be selected (PDO, comp, military, medical, funeral), and student must provide time of day they wish to use their time if not a whole day (i.e. 2 hours PDO, 2pm-4pm, leaving early). A comment box will be provided on the leave request form for further information, if necessary.

### **Interview Day:**

Students desiring to use the one allotted Interview day will be required to submit a Leave Request form in Trajecsys by the end of their shift at least one (1) day prior to the interview date. The student will also be required to complete necessary forms which can be located and printed from the "Documents" section of Trajecsys. These forms must be signed by a member of the interview committee and returned to the Program Director the next school day immediately following the interview. If the signed document is not returned, the absence will be considered unexcused and PDO will be taken. If additional interview days are needed, PDO must be used.

### **Policy Enforcement:**

Accurate evaluation and interpretation of student attendance can only be accomplished if students are methodical and precise in their documentation. For this reason, the following guidelines have been established and will be strictly enforced.

1. Each student must clock in and clock out in the Trajecsys Report System to document daily attendance times upon their arrival and departure of clinical duties.
2. Students that fail to document accurately and timely will be counted absent until they notify the designated Program official. All time not accounted for (missed documentation) will be deducted from the student's PDO balance and disciplinary action may be enforced in accordance with the excessive absenteeism policy.
3. Any student failing to properly utilize the attendance system (failing to clock in and clock out in Trajecsys, failing to comment on early dismissals, etc.) will be subject to the following:

### *Twelve-month programs:*

- a. Upon the occurrence of three incidences of failing to log attendance, the student will be issued an oral warning and 1 point will be deducted from their clinical grade.

- b. Upon the occurrence of three additional incidences of failing to log attendance (total of 6), the student will be issued a formal written warning and 2 additional points will be deducted from their clinical grade (total 3).
- c. Upon the occurrence of three additional incidences of failing to log attendance (total of 9), the student will be issued a second formal written warning and 2 additional points will be deducted from their clinical grade (total 5). At this level, the student's attendance will also be marked as "unsatisfactory" on their final grade transcript.
- d. Upon the occurrence of one additional incident of failing to log attendance (total of 10), the student will be issued a third formal written warning which will result in their subsequent dismissal from the program.

*Eighteen-month programs:*

- a. Upon the occurrence of three incidences of failing to log attendance, the student will be issued an oral warning and 1 point will be deducted from their clinical grade.
  - b. Upon the occurrence of three additional incidences of failing to log attendance (total of 6), the student will be issued a formal written warning and 2 additional points will be deducted from their clinical grade (3 total).
  - c. Upon the occurrence of three additional incidences of failing to log attendance (total of 9), the student will be issued a second formal written warning and 2 additional points will be deducted from their clinical grade (5 total). At this level, the student's attendance will also be marked as "unsatisfactory" on their final grade transcript.
  - d. Upon the occurrence of three additional incidences of failing to log attendance (total of 12), the student will be issued a third formal written warning which will result in their subsequent dismissal from the program.
4. Logging attendance must be performed on an approved hospital computer. Logging attendance with a mobile device is unauthorized unless approved by a program official under special circumstances.

**The Program Director has the discretion to make changes to this policy at any time based on the situation.**

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Education Coordinator

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Date

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## **Attendance Documentation Policy**

Students are required to document their attendance by clocking in and out on the TRAJESYS system. This system is an electronic based program that contains the student's competency forms, evaluation forms and attendance records to provide program officials with a method by which to regulate student attendance as they rotate through their various clinical and didactic assignments. A detailed description of the students' attendance is available at any time by logging into the TRAJESYS system. The attendance log documents month, day, and year. These Attendance forms are located in the Trajecsyst Electronic site for each student. At graduation, a copy of the clock hours for each student is placed into the student's permanent file located in the Program Director's Office. In accordance with CAAHEP policy, no student is to exceed a combined didactic and clinical work week in excess of 40 hours.

1. Upon reporting to the Hospital for their assigned shift, students will clock-in on the TRAJESYS system. All student badging transactions must take place on a computer located within the respective WVUH Ultrasound Department. **Clocking in or out on a personal computer or cell phone is not permitted.**

2. Upon leaving the Hospital after their assigned shift, students will clock-out on the TRAJESYS system. All student badging transactions must take place on a computer located within the respective WVUH Ultrasound Department. **Clocking in or out on a personal computer or cell phone is not permitted.**

### **Using PDO or Compensatory Time:**

Students wishing to take PDO or Compensatory Time will be required to submit a Leave Request Form to a Program official prior to the date or time of their absence. The date and the exact amount of time the student will be absent must be included. The amount of time taken as PDO or Compensatory time will be added to the weekly computer printout so that a complete attendance record can be obtained.

### **Policy Enforcement:**

Accurate evaluation and interpretation of student attendance can only be accomplished if students are methodical and precise in their clocking procedures. For this reason, the following guidelines have been established and will be strictly enforced.

1. Each student must clock-in and out with their individual username and password. Students are not permitted to clock in or out for each other. Students are issued ID usernames and Passwords for clocking procedures.
2. Students that fail to clock-in will be counted absent until they subsequently clock-in for that day. All time not accounted for (missed clockings) will be either deducted from the students PDO balance or replaced by compensatory time if available.
3. If a student consistently fails to properly utilize the time clock system clinical instructor points may be deducted. Once a student's clinic points (5 total) are exhausted, the Disciplinary Action policy may be implemented.

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## Trajecsys Report System Policy/Electronic Clinical Handbook

### **The Trajecsys Report System:**

The West Virginia University Hospitals, School of Diagnostic Medical Sonography Program implemented the use of the Trajecsys Report System™. This system is an electronic based program that contains the student's competency forms, proficiency forms, evaluation forms, and time record reports to monitor attendance.

This system has replaced the traditional paper clinical handbook. With regards to students utilizing this system, there is a one-time fee of \$150.00 which is paid directly to Trajecsys. This fee is paid by doing the following.

- The student will be required to access the following website: <http://www.trajecsys.com/payments.htm>.

After accessing this website, each student will need to complete the online form and then click the "Buy Now" button. This will re-direct them to PayPal where the payment will be submitted.

- Note: Students do NOT have to have a PayPal account to use this. When the director from Trajecsys receives notification of payment from PayPal, the director will update them in the Admin Panel/Payments.

All Trajecsys data is formatted into report form for both students and educational staff to view and utilize as needed.

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## Clinical Standards Policy

The clinical grade is based upon the completion of clinical competency examinations, cognitive competency exams, clinical proficiencies, clinical scanning lab assessments, Clinical Instructor evaluations, scanning participation, and the Program Director's evaluations. Below are the required examinations and the grading session in which they are due. Failure to complete the required number of competencies (scanning and cognitive), proficiencies, and scanning lab assessments will result in a zero for the exam(s) not completed. The procedure will still be required in the following grading session. **All required competency examinations and proficiencies must be completed by the end of the 3<sup>rd</sup> semester (6<sup>th</sup> grading session) in order to GRADUATE.**

Clinical grading for each semester is as follows:

- ❖ **1<sup>st</sup> semester:** Scanning Lab Assessments- 55%, Competencies with respective cognitive competency- 25%, Clinical Evaluations-10%, Scanning Participation - 5%, & Program Director's Evaluation - 5%
- ❖ **2<sup>nd</sup> semester:** Scanning Lab Assessments- 45%, Competencies with respective cognitive competency- 20%, Proficiencies - 15%, Clinical Evaluations -10%, Scanning Participation- 5%, Program Director's Evaluation- 5%.
- ❖ **3<sup>rd</sup> semester:** Competencies with respective cognitive competency-40%, Proficiencies-40%, Clinical Evaluations- 10%, Scanning Participation-5%, Program Director's Evaluation – 5%

To achieve clinical competency the student must successfully complete 15 competency exams, 15 cognitive competency examinations and 7 proficiencies. Guidelines for completing clinical examinations in each semester are as follows:

**1<sup>st</sup> Semester:** Aorta, Renal & RUQ Scanning Assessment Labs//**3 Competencies//No Proficiencies**

Recommendations for exam types to be completed include: Aorta, Adult Kidneys, Right Upper Quadrant (competencies)

**1<sup>st</sup> Session:** Aorta and Adult Kidneys (competency)

**2<sup>nd</sup> Session:** Right Upper Quadrant (competency)

**2<sup>nd</sup> Semester:** Spleen, Thyroid & Transabdominal Pelvis Scanning Assessment Labs//**5 Competencies//3 Proficiencies**

Recommendations for exam types to be completed include: Spleen, Chest, Thyroid, Pediatric Renals and TV Pelvis (competency)//Adult Kidneys and Right Upper Quadrant (proficiency)

**3<sup>rd</sup> Session:** Spleen and Chest (competencies)//Adult Kidneys and RUQ (proficiencies)

**4<sup>th</sup> Session:** Thyroid, Pediatric Renals and TV Pelvis (competency)//Spleen (proficiency)

**3<sup>rd</sup> Semester:** **7 Competencies//4 Proficiencies**

Recommendations for exam types to be completed include: 1<sup>st</sup> Trimester, 2<sup>nd</sup> Trimester, 3<sup>rd</sup> Trimester, Scrotum, Neonatal Head, Breast and Biopsy (competency)//TV Pelvis, Thyroid, Scrotum and Neonatal Head (proficiencies)

**5<sup>th</sup> Session:** 1<sup>st</sup> Trimester, 2<sup>nd</sup> Trimester, Scrotum and Breast (competencies)//TV Pelvis and Thyroid (proficiencies)

**6<sup>th</sup> Session:** 3<sup>rd</sup> Trimester, Neonatal Head, Biopsy (competencies)//Scrotum and Neonatal Head (proficiencies)

\*\*Exam types may be substituted as long as all required competency and proficiency exams are completed by graduation\*\*

## Examination Type and Details...

### **Competency Evaluation: Objectives and Methodology**

In order to evaluate a student's clinical performance progress (*SONT 300, 301, & 302 Applied Sonography I, II, & III*), a competency exam evaluation is in place. Clinical competencies and proficiencies must be performed on actual patients. The evaluations are based on Exceptional, Proficient, Proficient with Assistance, Needs Improvement, and Retest Recommendations selections. This mechanism utilizes Trajecsys® Electronic Clinical Workbook.

In order to graduate, the student is required to perform the following clinical exams:

1. Clinical competency with respective cognitive competency (1 per each exam):
  - a. Aorta
  - b. Adult Kidneys
  - c. Spleen
  - d. Chest
  - e. Right Upper Quadrant
  - f. Transvaginal Pelvis
  - g. Fetal 1<sup>st</sup> Trimester-Transvaginal Required
  - h. Fetal 2<sup>nd</sup> Trimester
  - i. Fetal 3<sup>rd</sup> Trimester
  - j. Thyroid
  - k. Scrotum
  - l. Pediatric Renal
  - m. Breast
  - n. Neonatal Head
  - o. Biopsy (Renal, Thyroid, Breast, Lymph Node or Liver)
2. Clinical proficiency (1 per each exam):
  - a. Adult Kidneys
  - b. Spleen
  - c. Thyroid
  - d. Transvaginal Pelvis
  - e. Right Upper Quadrant
  - f. Scrotum
  - g. Neonatal Head
3. Clinical scanning lab assessments (1 per each exam)
  - a. Adult Kidneys
  - b. Aorta
  - c. Spleen
  - d. Transabdominal Pelvis (includes cognitive competency)
  - e. Thyroid
  - f. Right Upper Quadrant

The student's ability to perform a diagnostic examination by recognizing and recording normal anatomy and pathology is evaluated. The student must notify the Sonographer if the check-off is a competency or proficiency prior to starting the exam. The student must be able to suggest a reasonable diagnosis and intelligently communicate his/her findings to the radiologist when applicable. The student must successfully answer all questions correctly on the cognitive competency exam given by the Program Director. The cognitive competency includes questions regarding patient presentation, anatomy, scanning planes and techniques, normal and abnormal sonographic appearance, adjustments to protocol to tailor exam to patient condition, and the recognition of pathology. Each Competency requires a minimum score of 86% to receive a "pass" mark. Once a student is marked as competent on a particular exam, it is the Student's responsibility to maintain this competence. The Program Director reserves the right to revoke any passed competency if deemed necessary.

The student can request a **Competency** evaluation on a particular exam after:

1. Must have performed at minimum one logged exam where the student performed the entire exam on their own. The student utilizes clinical skills checklists to demonstrate views and log completed skills

- in Trajecsys®. The student selects their participation level from the following options: Observed, Observed and Assisted, Scanned < 10 minutes, Scanned > 10 minutes, and Scanned Entire Exam.
2. Reviewed pathology cases relative to the exam type.
  3. The student feels confident in performing the procedure.

**Scan Time Limitation:**

WVU Hospitals is committed to student education while providing professional and optimal patient care. To prevent a delay of optimal patient care students doing a clinical exam for grade evaluations are subject to the following limitation:

- Students time begins from the start of exam in RIS until their last image.
- Exams with a 45 minute time slot:  
Students are allotted 40 minutes to complete the exam, however, if by 30 minutes, if more than half of the exam isn't complete the sonographer will take over the exam so there will not be a delay in patient care.
- Exams with a 30 minute time slot:  
Students are allotted 25 minutes to complete the exam, however, if by 20 minutes, if more than half of the exam isn't complete the sonographer will take over the exam so there will not be a delay in patient care.

The Diagnostic Medical Sonography student must maintain a minimum **overall** Clinical Education (Applied Sonography) grade of 86% at the end of each semester. Each student will be formally counseled at mid-term and semester end, with regards to clinical progress. Informal counseling may take place at any time throughout the semester. It is still the student's responsibility to maintain awareness of his/her clinical grade. At semester end, if a student fails to achieve and maintain the required grade (86%) he/she will be dismissed from the Program. All decisions regarding clinical dismissal are final. The student does hold the right to Due Process. *(This policy is located in the Student Handbook)*

*(NOTE: Instructor, as mentioned above, is any person specified as a SONT 300,301, & 302 Applied Sonography I, II, & III Clinical Instructor. **Responsibilities:** A clinical instructor must be available to students whenever he or she is assigned to a clinical setting, provide appropriate clinical supervision, and be responsible for student clinical evaluation. **Qualifications:** Clinical instructors must have the appropriate credential for the concentration they are evaluating student competency in.)*

**Clinical Grade Scale**

The following grading scale will be utilized as an objective evaluation mechanism for representing the student's clinical grade and performance.

Percentage Grade	Letter Grade	Quality Points
100%-93%	A	4.0
92%-86%	B	3.0
85%-78%	C	2.0
77%-70%	D	1.0
<70%	F	0.0

**Clinical Grade Standard (minimum)**

Each student is required to achieve a minimum overall weighted clinical average of **86% (B Letter Grade)** at the end of each semester in order to successfully complete the clinical education component, no provisions are provided for repeating a clinical level. Each clinical education level must be completed before advancing to the subsequent semester; therefore, students who fail to achieve an **86% (B Letter Grade)** weighted clinical average at the end of each semester will be dismissed from the program. Students are counseled by the Clinical Education Coordinator regarding their clinical progress at mid-term, semester end, and/or as needed; however, it is the student's responsibility to maintain awareness of their clinical progress at all times.

\_\_\_\_\_  
Education Coordinator

\_\_\_\_\_  
Date

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## Clinical Procedure and Supervision Policy

### Policy:

The WVUH Ultrasound section is accredited as a sponsoring institution for WVUH Diagnostic Medical Sonography Education Program. In regards to this accreditation, the ultrasound section assumes the responsibility to provide each student with a volume and variety of sonographic procedures, equipment, and personnel available for educational purposes. In compliance with the Commission on Accreditation of Allied Health Programs, the number of students assigned to each clinical instructor/staff sonographer will not exceed a one-to-one ratio.

### Procedures:

1. Students in the clinical setting must maintain a professional attitude, appropriate behavior, work ethic, and appearance at all times. This is a fundamental expectation of the Sonography Profession, as well as the Education Program. Each student is expected to be at their clinical site in proper uniform and ready to scan at the time their clinical assignment begins.
2. At no time will a student (unqualified) sonographer perform an examination in lieu of a staff sonographer.
3. A staff sonographer will be responsible for any and all actions of a student under their direct and indirect supervision.
4. As the student progresses through the program and documents competency for a particular exam, the clinical instruction will become more indirect to allow the student time to perfect their scanning skills and gain confidence. A qualified staff sonographer will always perform the following:
  - a. Review exam request in relation to the student's level of clinical competence.
  - b. Evaluate patient condition in relation to the student's level of clinical competence.
  - c. Be present during the performance of the examination to offer scanning techniques and tips to assist the student sonographer if needed.
  - d. Review and approve all images.
  - e. Be present during case presentation to diagnosing/interpreting physician.

### *Indirect Supervision*

The student will perform an imaging study with the assigned sonographer; both student and sonographer will scan the patient. The sonographer may not be present in the exam room for the entire length of the study, however, the sonographer will be immediately available to assist the student. The sonographer is ultimately responsible for the exam.

### *Direct Supervision*

The student will perform an imaging study with the assigned sonographer; both student and sonographer will scan the patient. The sonographer will be present in the exam room for the



entire length of the exam. The sonographer will always be present to assist the student. The sonographer is ultimately responsible for the exam.

### ***Immediately Available***

A qualified sonographer will be on premises where the sonographic procedures are being performed.

### ***Clinical Instructor***

A Clinical Instructor is defined as a credentialed sonographer that provides the appropriate clinical supervision and is responsible for completing the student's clinical evaluation. An appropriately credentialed Clinical Instructor may perform competency/proficiency exams with students. The image review, discussion questions, and final approval of the competency are reserved for the Program Coordinator. Clinical Instructor responsibilities include, but are not limited to, providing demonstration of department functions, the imaging process, scanning techniques, instrumentation, normal anatomy, and pathology. Each student will be assigned to a Clinical Instructor for a period of one/two weeks. A Clinical Instructor will observe and practice the following:

1. Instruct and assist each student in the accomplishment of required sonographic procedures.
2. Support educational program mission and goals.
3. Provide feedback on student's clinical performance in order to develop student competence via evaluations and verbal communication.
4. Participate during Clinical Instructor meetings to discuss improvements of the education program in an effort to enhance student's educational experience.
5. Perform in a manner representative of the Profession and the Institution.

### ***Communication Channel***

Trajecsys is accessible to the staff sonographer. Documented proficiencies, competency examinations, student schedules, and evaluations are located within this electronic system. It is the student's responsibility to comment on each evaluation to verify they have reviewed it.

### ***Scanning Practice***

Scanning practice may only occur when appropriate clinical supervision is available.

Under No Provisions will the following examinations be performed under indirect supervision. Direct supervision guidelines will be followed regardless of the student's level of clinical competence:

1. Mobile Examinations
2. OR Examinations
3. Special Procedures
4. Invasive Procedures (including, but not limited to, endocavity and biopsy exams.

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Education Coordinator

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Date

## Instructors and Courses (Faculty)

### Instructor

Candice E. Norris, BA, RDMS, RT(R)  
*Ultrasound Education Coordinator / Program Director*

Michael E. Cunningham, MD  
*Radiologist-Ultrasound Section Chief  
Medical Advisor*

Kimberly Tustin, RDMS, RVT RT(R)  
*Sonography Modality Specialist*

Jaime Lancaster, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Brooke Hevener, RDMS, RVT RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Cara Bevins, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Stephanie Stevens, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Maria Redpath, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Megan Hickman, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

Amber Karlen, RDMS, RT(R)  
*Staff Diagnostic Medical Sonographer  
Clinical Instructor*

### Courses

*SONT 300- Applied Sonography  
SONT 100-Physics & Instrumentation  
SONT 110- Abdominal Sonography  
SONT 120- OB/GYN Sonography  
SONT 130- Neurosonography  
SONT 140- Intro. Into Sonography  
SONT 150- Case Review & Critique  
SONT 180- Medical Ethics & Law  
SONT 190- ARDMS Exams Review  
SONT 220- Professional G & D*

*SONT 300- Applied Sonography*

*SONT 300-Applied Sonography*

*SONT 300- Applied Sonography*

*SONT 300- Applied Sonography*

*SONT 300-Applied Sonography*

*SONT 300-Applied Sonography*

*SONT 300-Applied Sonography*

*SONT 300-Applied Sonography*

*SONT 300-Applied Sonography*

<p>Baydn Waller, RDMS, RT(R)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Debra Bokulich, RDMS, RVT, RT(R)(M)(MR)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Meredith Bunner, RDMS, RT(R)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Richelle Gemmell, RDMS  <i>Staff Diagnostic Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Diane Stofcheck RVS  <i>Lead Vascular Medical Sonographer</i>  <i>Clinical Instructor/Didactic Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i>  <i>SONT 200, 201-Vasc. Sonography I &amp; II</i></p>
<p>Sarah Sherman, RDMS, RVT  <i>Staff Vascular Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i>  <i>SONT 200-Vasc. Sonography</i></p>
<p>Heather Kitta, RVS  <i>Staff Vascular Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i>  <i>SONT 200-Vasc. Sonography</i></p>
<p>Tammy Harbert , ARRT (BS)(M)(R)  <i>Mammography</i>  <i>Clinical Instructor/Didactic Instructor</i></p>	<p><i>SONT 210-Breast Sonography</i>  <i>SONT 300-Applied Sonography</i></p>
<p>Carrie Wilhelm, RDMS, RVT, RT (M)(R)  <i>Mammography/Diagnostic Medical Sonographer</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Jennifer Graham, RDMS, RT(R)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Obstetrics and Gynecology</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Kathleen Riley, RDMS, RT(R)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Obstetrics and Gynecology</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300-Applied Sonography</i></p>
<p>Francine Jesso RDMS, RVT,RT (R) (M)  <i>Staff Diagnostic Medical Sonographer</i>  <i>Obstetrics and Gynecology</i>  <i>Clinical Instructor</i></p>	<p><i>SONT 300- Applied Sonography</i></p>

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## Clinical Education Make-up Policy

### **Policy:**

This policy serves to identify the procedure and criteria for making up clinical education when absences in excess of the allotted 9 personal days off (PDO) occur. Absences in excess of the 9 days must be made up by the student in order to complete the clinical education component of their education and receive the recommendation of the Education Coordinator to sit for the registry in diagnostic medical sonography.

The following guidelines will be utilized by the student to re-establish their good standing in the clinical education component of their education.

- a. The student may convert compensation time to account for excess personal leave, or
- b. The student's clinical education will be extended beyond graduation to account for the number of days or hours in excess of the allotted 9 personal leave days not to exceed 5 days.
- c. In all cases, unexcused absences must be made up after graduation.

These guidelines will be used by the education program to provide the student with a mechanism to complete their clinical education when the student's attendance has been affected by adverse circumstances (ex: extended illness). Chronic attendance problems will be governed by the Attendance & Disciplinary Action policies.

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Education Coordinator

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Date

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## DMS Course Total Clock Hours

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<u>Course Number</u>	<u>Course Title</u>	<u>Clock Hrs.</u>
SONT 100	Physics and Instrumentation	60
SONT 110	Abdominal Sonography	132
SONT 120	Obstetrical and Gynecological Sonography	132
SONT 130	Neurosonography	12
SONT 140	Introduction Into Sonography & Scan Lab	90
SONT 150	Case Review	66
SONT 180	Medical Ethics and Law	4
SONT 190	ARDMS Exams Review	6
SONT 200	Cardiovascular Sonography	39
SONT 210	Breast Sonography	4
SONT 220	Professional Growth & Development	4
SONT 300	Applied Sonography	1803

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Total Didactic Hours	=	549
Total Clinic Hours	=	1803
Total Hours	=	2352
Total Vacation Hours	=	160
Total Holiday Hours	=	72

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## DMS Course Clock Hours

### Semester I

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<u>Course Number</u>	<u>Course Title</u>	<u>Clock Hrs.</u>
SONT 110	Abdominal Sonography	48
SONT 120	Obstetrical and Gynecological Sonography	48
SONT 140	Introduction Into Sonography & Scan Lab	90
SONT 150	Case Review	24
SONT 300	Applied Sonography w/Scan Lab & P.G. Conf.	598

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Total Didactic Hours = 210

Total Clinic Hours = 598

Total Hours Excluding vacation  
And holiday hours: = 808

Total Holiday Hours:

Labor Day = 32  
Thanksgiving  
Friday after Thanksgiving

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**DMS Course Clock Hours**

**Semester II**

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<u>Course Number</u>	<u>Course Title</u>	<u>Clock Hrs.</u>
SONT 100	Physics and Instrumentation	36
SONT 110	Abdominal Sonography	48
SONT 120	Obstetrical and Gynecological Sonography	48
SONT 130	Neurosonography	12
SONT 150	Case Review	24
SONT 200	Cardiovascular Sonography	24
SONT 300	Applied Sonography	652

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Total Didactic Hours	=	192
Total Clinic Hours	=	592
Total Hours excluding vacation And holiday hours.	=	784
Total Holiday Hours: Memorial Day	=	8

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**DMS Course Clockhours**

**Semester III**

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<u>Course Number</u>	<u>Course Title</u>	<u>Clock Hrs.</u>
SONT 100	Physics and Instrumentation	33
SONT 110	Abdominal Sonography	15
SONT 120	OB/GYN Sonography	16
SONT 150	Case Review	19
SONT 180	Medical Ethics and Law	4
SONT 190	ARDMS Exams Review	6
SONT 200	Cardiovascular Sonography	33
SONT 210	Breast Sonography	4
SONT 220	Professional Growth & Development	4
SONT 300	Applied Sonography	613

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Total Didactic Hours	=	147
Total Clinic Hours	=	613
Total Hours excluding vacation And holiday hours:	=	760
Total Holiday Hours: July 4th		
Labor Day		
Thanksgiving	=	32
Friday after Thanksgiving		



## COURSE DESCRIPTION

SONT 100 (Core Course)	<b><u>Ultrasound Physics and Instrumentation</u></b> 60 clock hours (Semester 2 & 3) Provides the student with an in-depth study of principles governing ultrasound physics and instrumentations. Principles range from wave behavior on a molecular level to somatic effects, and from piezoelectric elements to computer memories.
SONT 110 (Core Course)	<b><u>Abdominal Sonography</u></b> 132 total clock hours (Semester 1, 2,& 3) Exposes the student to anatomy, physiology, pathology and scanning technique. Emphasis is placed on cross-sectional anatomy in conjunction with scanning technique. Pathology forms a major component of this course.
SONT 120 (Core Course)	<b><u>Obstetrical and Gynecological Sonography</u></b> 132 total clock hours (Semester 1,2,&3 ) A detailed examination of anatomy, physiology, pathology and scanning techniques, related to pregnancy and female fetal development is presented by correlating various parameters.
SONT 130 (Core Course)	<b><u>Neurosonography</u></b> 12 clock hours (Semester 2) Exposes the student to anatomy, physiology, pathology and scanning technique pertinent to the neonate brain. Emphasis is placed on normal and abnormal conditions of the brain.
SONT 140	<b><u>Introduction Into Sonography &amp; Scan Lab</u></b> 90 Clock Hours (Semester 1) Introductory Course to familiarize the students to the ultrasound equipment including but not limited to the transducers, machine, and PACS. Course also provides the history of ultrasound and the basics of how ultrasound works.
SONT 150	<b><u>Case Review, Critique &amp; Scanning Techniques</u></b> 66 total clock hours (Semester 1,2, & 3) Consists of review of interesting case studies, along with critiquing the images. Scanning techniques and protocols are covered in lab setting.
SONT 180	<b><u>Medical Ethics and Law</u></b> 4 clock hours (Semester 3) Consists of Professional Code of Conduct, basic law, and the principles of medical ethics for the sonographer.

SONT 190	<p><b><u>ARDMS Exams Review</u></b>          6 clock hours (Semester 3)          Purpose of this course is to review material from Abdomen, OB-GYN, Neurosonography classes, as well as develop and enhance strategies in test taking for registry examinations.</p>
SONT 200	<p><b><u>Cardiovascular Sonography</u></b>          39 clock hours (Semester 2 &amp; 3)          Exposes the students to anatomy, physiology, pathology, and Scanning techniques used in adult and pediatric heart and vascular Examinations.</p>
SONT 210	<p><b><u>Breast Sonography (Mini Course)</u></b>          4 Clock Hours (Semester 3)          Covers basic anatomy, physiology, and pathology of the breast which is taught by a registered diagnostic sonographer in the Breast Specialty.</p>
SONT 220	<p><b><u>Professional Growth &amp; Development</u></b>          4 Clock Hours (Semester 3)          Consists of professional responsibilities and career advancements of a Sonographer, Quality Assurance and the duties of management.</p>
SONT 300 (Core Course)	<p><b><u>Applied Sonography</u></b>          1803 total clock hours (Semester 1,2,&amp;3)          Applied sonography is designed for acquisition of practical experience in the ultrasound laboratory. Real-time scanners are utilized for this purpose . Clinical rotations at Physician's Office Center, Inpatient, Cheat Lake Physicians, High-Risk OB, University Town Center, Vascular and the Breast Care Center. A scan lab is held in addition to the applied sonography. Program/Education Coordinator works with students on specific exams during this time.</p> <p><b><u>CPR</u></b>          8 hours (Semester 1)          Basic Cardiac Pulmonary Resuscitation          Procedures and Techniques</p>

## Textbook Ordering and Purchasing Policy

Textbooks are selected based on recommendations from the Education Coordinator, Medical Director, Radiology Education Manager, and the Course Instructor. The following sources are utilized in textbook evaluation and selection.

Radiologic Health Training Resources Catalog  
Curriculum Guide of Sonography Programs  
Publisher Advertisements  
Educational Seminars

All textbooks may be ordered through the WVU Bookstore, Medical Division B&N, located in the Health Sciences Center in Morgantown, West Virginia.

*All textbooks listed are mandatory.*

If you have any further questions in regards to the WVU Bookstore, including but not limited to the pricing of textbooks and general WVU bookstore questions, please contact Mr. Chuck Bowers at (304) 293-4849.

## Required Textbook List 2018-2019

**1.) Title: Understanding Ultrasound Physics**

Author: Sidney K. Edelman  
4<sup>th</sup> edition

**2.) Sonography: Introduction to Normal Structure and Function (4<sup>th</sup> Edition)**

Utilization: Abdomen, Small Parts, Ob-Gyn, Neurosonology  
Curry and Tempkin

**3.) Sonography: Introduction to Normal Structure and Function**

Workbook and Lab Manual (4<sup>th</sup> Edition)  
Appleton & Lange's Review for the  
Utilization: Abdomen, Small Parts, OB-GYN, Neurosonology  
Ultrasonography Examination, 3rd edition

Utilization: Abdomen, Small Parts, Ob-Gyn,

**4.) Diagnostic Ultrasound Vol. 1 & 2**

Utilization: Abdomen, Small parts, OB-GYN, & Neurosonology  
Rumack, Wilson, Charboneau; 5<sup>th</sup> Edition

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Education Coordinator

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Date

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### **Course Lecture Sessions Makeup Policy**

The program officials and instructors will abide by the following procedure for permitting students to make-up course work missed as a result of being absent from a scheduled lecture session. This policy serves to eliminate, as much as possible, any potential advantage that a student may achieve by being absent from a scheduled lecture session and thereby obtaining a greater amount of study and/or preparation time, for the scheduled activities of the class, than those students in attendance.

1. The student is solely responsible for the lecture material covered and for making up any examinations, quizzes, homework assignments, etc. which occurred during their absence from the lecture session.
2. All examinations and/or quizzes must be made up on the student's first regular scheduled day of attendance (Monday thru Friday) following their absence from the lecture session.

The student must follow the following procedure:

- a. Contact the course instructor by 8am on the day of your return and inform the instructor that you are presenting yourself to make-up the missed examination and/or quiz.
  - b. In the event that the course instructor is not available, contact the program director or program clinical coordinator immediately and inform him/her to this affect.
  - c. Instructors may submit the examination and/or quiz to a program official who will proctor the make-up session for the instructor. Instructors who anticipate that they will not be available for the make-up session must arrange in advance for the program director and/or clinical instructor to proctor the session.
3. Failure of the student to follow the aforementioned make-up guidelines imposes a mandatory requirement upon the instructor to record a percentage grade of zero for the examination and/or quiz.
  4. A student who fails to meet an assignment (e.g. term paper) deadline as a result of being absent on the deadline day must submit the assignment on the first regular scheduled day of attendance following the absence. The equivalent of a 10% reduction in grade will be imposed as a penalty for missing the deadline. If the student fails to submit the assignment as described above, the instructor is required to enter a percentage grade of zero for the assignment.

This policy and procedure will be followed in all cases except where the Program Director and Instructor have agreed to waive this policy because of special extenuating circumstances.

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Education Coordinator

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Date

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### **Recruitment Policy**

As part of the requirements of the Essentials and Guidelines for an Accredited Program of Diagnostic Medical Sonography, adequate announcement and advertising that accurately reflects the program must be practiced. To comply with this, our program information is available on the WVUH Radiologic Technology Education Programs' website. We provide application packets upon request. Letters and advertising material are sent to many radiography programs in the state and surrounding areas.

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Education Coordinator

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Date

## **Pregnancy Policy**

It is the policy of the West Virginia University Hospitals Diagnostic Medical Sonography Education Program to follow the steps outlined below, and provide three options to our students in the event that pregnancy should occur during the eighteen (18) month program.

1. Upon medical verification of her pregnant condition, disclosure of the said condition to program officials is the student's responsibility and is to be initiated voluntarily. Students have the right to refuse disclosure of medical information; however, in the event that a student chooses not to disclose information regarding pregnancy, the student is acknowledging that they are assuming all responsibility for their condition and the potential complications that may arise.
2. Upon notification by the student that a pregnant condition exists, the Education Coordinator will contact the Radiation Safety Officer to assess the student's likeliness of radiation exposure as well as the risks associated with radiation exposure to the fetus. Students working in ultrasound are not exposed to radiation producing equipment, however if the student or Radiation Safety Officer wishes a film badge will be issued to be worn at the level of the pelvis to monitor any possible fetal dose encountered while working in the Department of Radiology.
3. Upon medical verification that a pregnancy exists, and after consultation with the Radiation Safety Officer, the Education Coordinator will offer two options to the student.

### **Option # 1 – Choose Not to Disclose Information Regarding Pregnant Condition**

By choosing this option, the student implies acknowledgement that she has chosen to disregard the recommendations made by the Radiation Safety Officer and the program. In addition, she is assuming responsibility for all potential risks and related complications. No policy or performance exceptions can or will be implemented should the student choose this option.

### **Option #2 - Leave of Absence during pregnancy. If the student so decides, she may elect to leave the Program under the following requirements:**

- a. Upon accepting this option and leave the Program, she must notify the Education Coordinator immediately.
- b. The student shall re-enter at the beginning of the corresponding semester in which she left. (i.e., if the student left mid-way through the second semester she would be required to re-enter the program at the beginning of the second semester the following year).
- c. All didactic and clinical course work must be completed prior to graduation from the Program

**Option # 3 - Remain in Program throughout pregnancy. If the student so decides, she may continue in the Program under the following requirements:**

- a. The student shall imply all radiation safety practices as outlined by the Education Coordinator and the Radiation Safety Officer.
  - b. Upon request, an exposure monitoring device will be issued by the Radiation Safety Officer.
  - c. The student shall participate in all scheduled clinical rotation areas as assigned with no special provisions.
4. The Education Coordinator shall document the student's decision in regard to the three options described above.
  5. The student shall complete and sign a form acknowledging receipt of information and associated documentation in regard to the pregnancy. All documentation shall be entered into the student's permanent personal file.

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Education Coordinator

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Date

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## **Student Transfer Policy**

*The following statement serves to identify the policy regarding the transfer of a student sonographer to The West Virginia University Hospitals, School of Diagnostic Medical Sonography Program.*

### **Policy:**

West Virginia University Hospitals School of Diagnostic Medical Sonography Program does **not** admit student sonographers on a transfer basis.

### **Reasons Regarding the No Transfer Policy:**

1. A loss of both didactic and clinical course content may be un-avoidable.
2. Student Capacity May Be Exceeded
  - a. Refers to the ultrasound program's structure of keeping the student to sonographer ratio of 1:1
3. The 18 Month educational program with a structured curriculum design does not provide enough time or flexibility to accommodate a transferring student.
  - a. Therefore, this could jeopardize both currently enrolled students and the transferring student's education and training.

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Education Coordinator

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Date



## Student Advanced Placement

**Policy:**

The West Virginia University Healthcare, School of Diagnostic Medical Sonography Program does not provide for any placement activities.

Notwithstanding this statement, students are encouraged to participate in placement activities sponsored by the Medical Center, the University, and other parties elsewhere in the community.

Placement opportunities received by program officials in written or verbal form are posted for the students on the student activity board that is located within the Physician's Office Center ultrasound laboratory.

In addition, students also receive their own individual copy of any placement activities.

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Education Coordinator

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Date

## Student Part Time Policy:

### Part-time Status

Due to the nature of the educational process relative to the clinical education performance requirements and competencies, it is the program's philosophy that part-time student attendance disrupts the coordination of the student's clinical educational relative to his/her didactic education.

Therefore, the program does **not** provide for student attendance on a part-time basis.

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Education Coordinator

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Date

### **Access or Release of Student Records Policy**

The Accreditation Standards for Diagnostic Medical Sonography Education released by the Joint Review Committee on Educational Programs in Diagnostic Medical Sonography requires that records be maintained permanently for all didactic and related courses attempted and/or completed by all students. The student's permanent record file shall contain the following:

1. Admission Documents: application, weighted values calculation sheet, signed acceptance letter, essential performance standards
2. Transcripts and associated records
3. Physical examination reports
4. Counseling records
5. Transcripts of didactic, laboratory and clinical achievement in diagnostic medical sonography
6. Records of attendance, clinical rotation and grades for all courses in diagnostic medical sonography
7. Documented evidence of student clinical competency
8. Copy of certificate from ARRT (R) certification
9. Copy of CPR certification card
10. Copy of associates degree

Our program is re-evaluated and re-accredited every seven years. A site-visit team assigned by the Joint Review Committee will re-evaluate the program at the end of the seven year accreditation period. The site visit team will request access to student records to assure that each student's records have been properly maintained. Due to the Family Education Rights and Privacy Act of 1974 also known as the "Buckley Amendment" it is necessary that we obtain prior authorization from the student to allow access to the student's personal records. Your signature on the attached " Authorization for Access or Release to Student Record Information" will provide our program with the aforementioned authorization.

The following provisions will be followed to assure the students privacy:

1. A record of disclosure will be maintained and kept with the educational records of the student whose personally identifiable information was released.
2. This record must identify the parties who obtained the information and the reasons why these parties needed the information.
3. In addition, the party to whom the information was disclosed must not disclose the information to any other party without prior written consent of the student or his or her parents. The information taken from the records may be used by the organization only for the purpose for which the disclosure was made.
4. If the organization does release personally identifiable information for other purposes, it must also maintain a complete record of disclosures.



Radiologic Technology Education Programs  
Radiography, Radiation Therapy, Nuclear Medicine, Ultrasound, & MRI

Educational Records Release Form

**Student/Graduate:** \_\_\_\_\_

Institution, Program or Individual to which records are to be sent:

\_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Educational records to be sent: (WVUH can only release **WVUH transcripts** to outside agencies)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

“In accordance with the Family Education Rights and Privacy Act of 1974, my signature below authorizes West Virginia University Hospitals Radiologic Technology Education Programs to release the aforementioned “Educational Records” to the institution(s) and/or individual(s) indicated above.

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Program Director: \_\_\_\_\_ Date Sent: \_\_\_\_\_

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## **Program Effectiveness / Outcome Assessment Policy**

The Radiologic Technology Education Program in Sonography evaluates programmatic effectiveness and performance by projecting and measuring outcomes relative to each academic year. These outcomes serve to provide assurance of successful achievement of the Program's mission and goals. Programmatic goals are developed by evaluating past performance and establishing benchmarks on which to evaluate current performance. In the event a programmatic goal is not met, action will be taken in an attempt to facilitate performance improvement. The basis for these measurement procedures is derived from the Commission as provided by the JRC-DMS. The data collected is presented in the Program Effectiveness / Outcome Assessment report which is compiled each year.

### **Quantitative Outcomes:**

#### **1. Student Retention / Attrition Rate**

##### **Description**

Student retention is calculated as the percentage of students who have remained enrolled over the past eighteen month time frame. Attrition is calculated as the percentage of students who resign, withdraw, or are dismissed over the past program length.

##### **Programmatic Goal**

Retention =  $\geq 80\%$

Attrition =  $\leq 20\%$

##### **Data Collection Mechanism**

Current enrollment numbers

#### **2. Credentialing Exam (ARDMS) Pass rate**

##### **Description**

Credentialing Exam pass rate is calculated as the percentage of students each academic year who successfully complete (75% scaled score or greater) the national certifying exam administered by the American Registry of Diagnostic Medical Sonography. The assessment is separated into two categories: 1<sup>st</sup> attempt pass rates and cumulative pass rate. Cumulative pass rates take into account the total average from 1<sup>st</sup> and 2<sup>nd</sup> attempts of a graduating class. The Program also evaluates student performance in each individual section compared to the national averages.

##### **Programmatic Goal**

ARDMS Exam Pass rate (1<sup>st</sup> attempt)  $\geq 85\%$

ARDMS Exam Pass rate (cumulative)  $\geq 100\%$

Individual Section Scores  $\geq$  **National average / section**

##### **Data Collection Mechanism**

Official ARDMS Exam report

#### **3. Employment rate (Job placement rate)**

##### **Description**

Employment rate is calculated as the percentage of graduating students who obtain employment in diagnostic medical sonography within six months of graduation. The calculation includes all graduates who are seeking employment as their primary endeavor. Students who electively pursue additional education and are not seeking initial employment are not included.

##### **Programmatic Goal**

Employment rate =  $\geq 75\%$

**Data Collection Mechanism**

Exit Survey

**Qualitative Outcomes**

**1. Graduate Satisfaction**

**Description**

Graduate satisfaction is measured as the cumulative results of the five principal questions on the Exit Survey, which reflects how the student feels about the quality of education received at WVU.

Graduates rate the program on a 5-point scale (Excellent =5, Good = 4, Satisfactory = 3, Fair = 2, Poor = 1).

**Programmatic Goal**

Graduate Satisfaction = Graduates rate program as “Good” (3.0) or higher (cumulative)

Return Rate =50%

**Data Collection Mechanism**

Exit Survey

**2. Employer Satisfaction**

**Description**

Employer Satisfaction is calculated as the cumulative results of the fifteen performance question on the employer questionnaire component of the Alumni survey. Responses on all returned surveys are summated and averaged. Employers rate the graduates on the following 4-point scale: (1 = excellent, 2 = satisfactory, 3 = needs improvement, 4 = unsatisfactory)

**Note : Scale changed in July 2000 to the following:**

(5 = Excellent, 4 = Above average, 3 =Satisfactory, 2 = Needs improvement, 1 = Unsatisfactory)

**Programmatic Goal**

Employer Satisfaction =  $\leq 2.0$  (prior to July 2000)

Employer Satisfaction =  $\geq 3.0$  (after July 2000)

Return Rate of  $\geq 50\%$

**Data Collection Mechanism**

Alumni Survey (Employer Questionnaire)

**3. Didactic Instructor Performance**

**Description**

At the end of each semester, student’s are required to complete Instructor Evaluations for all didactic courses. The results on each instructor are compiled and averaged for the academic year. Students rate their instructors on a 5-point scale (Excellent =5, Good = 4, Satisfactory = 3, Fair = 2, Poor = 1).

**Programmatic Goal**

Instructor Evaluations =  $\geq 3.5$  per instructor / year

**Data Collection Mechanism**

Didactic Instructor Evaluations

#### **4. Clinical Instructor Performance**

##### **Description**

At the end of each semester, student's are required to complete Instructor Evaluations for all clinical instructors they have rotated with. The results on each instructor are compiled and averaged for the academic year. Students rate their instructors on a 5-point scale (Excellent=5, Good=4, Satisfactory=3, Fair=2, Poor=1).

##### **Programmatic Goal**

Instructor Evaluations =  $\geq 3.0$  per instructor/year

##### **Data Collection Mechanism**

Clinical Instructor Evaluations

#### **Actions for Unmet Criteria**

The aforementioned outcomes provide program officials with a mechanism for evaluating the overall effectiveness of the program. Criteria that is met or satisfied can provide assurance that the mission and goals of the program are being achieved and maintained. In the event that criteria is unmet, program officials will take the following steps to assess the results and implement a performance improvement plan.

##### **Step #1:**

Review findings / outcomes for accuracy and relevancy.

##### **Step #2**

Identify or rule out obvious rational explaining reason for unmet criteria.

##### **Step #3**

Identify individual reasons for unmet criteria (academic, clinical, programmatic, or personal).

##### **Step #4**

Contrast and compare data with previous outcomes to identify potential trends.

##### **Step #5**

Use data to identify if a casual relationship between unmet criteria and programmatic attributes exists.

##### **Step #6**

Develop improvement plan that attempts to address and correct the casual elements of the unmet criteria.

##### **Step #7**

Follow-up: Compare with subsequent year's performance to identify potential improvement.

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Education Coordinator

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Date

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## Non-Registered Student Admission Policy:

West Virginia University Hospitals DMS Education Program matriculates students who have provided proof of ARRT registration or have documented in writing that they are ARRT registry eligible for the Radiography examination. This policy is applicable to students that have not passed the American Registry of Radiologic Technologists (ARRT) registry examination in Radiography. Registry eligible students are accepted into the DMS Education Program on the condition that they successfully pass the ARRT exam in Radiography.

### **Procedure:**

1. The student must take the ARRT exam in Radiography **within 30 days** of entering the program (during or before the month of July).
2. The student must provide the Education Coordinator with proof of eligibility (i.e. photocopy of admission ticket).
3. The Program must receive documentation of ARRT Registration **within 90** days following matriculation into the Program.
4. In the event that the student does not successfully pass the ARRT Radiography exam taken on or before July, the Education Advisory Committee will review and evaluate the student's case. The following evaluation criteria will include:

### **Evaluation Criteria:**

1. The student must have maintained an overall didactic average of 86% (B) or better while enrolled in the program.
2. The student must not have been counseled regarding poor didactic or clinical performance while in the Program.
3. The student must have demonstrated a high level of proficiency, integrity and clinical ability.
4. The student must have met all financial obligations to the Program.

If the Education Advisory Committee decides to allow the student to remain in the Program based on the above criteria, the following action will occur:

5. The student will be placed on academic probation until the results of a repeat attempt on the ARRT Radiography registry are obtained. The repeat attempt must occur **within 30 days** of the notification by the ARRT that the students failed the registry.
6. The student must provide the Education Coordinator with proof of eligibility (i.e. photocopy of admission ticket).
7. The Program must receive documentation of ARRT Registration **within 60** days following the date of the repeat exam.
8. **In the event that the student does not successfully pass the repeat ARRT Radiography exam, the student will be dismissed from the Program without further consideration.** The student may reapply for admission consideration when they have successfully passed the ARRT exam in Radiography.

### **This policy is enacted for the purpose of:**

1. Assuring that all students meet the required admissions requirements for the DMS Education Program, thereby assuring the Program maintains high admission standards for accepting quality students.
2. Affording students who have made satisfactory academic, clinical and professional progress in the program another attempt to successfully pass their ARRT Exam in Radiography.

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Education Manager

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Date



West Virginia University Hospitals  
Diagnostic Medical Sonography (DMS) Education Program

## Non-Registered Student Admission Agreement

I have received a copy of the non-registered student admissions policy for the West Virginia University Hospitals DMS Education Program. I have read and understand these regulations and agree to abide by the same. I agree not to hold West Virginia University Hospitals liable for any losses incurred including financial loss.

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Graduation Requirements

1. Achieve necessary requirements as outlined by the Academic and Clinical Standards policies. This includes all didactic and clinical grades as well as completion of clinical competency exams and proficiencies.
2. Achieve proficient use of sonographic imaging equipment and demonstrate knowledge of ultrasound instrumentation, including but not limited to acoustic physics, Doppler ultrasound, and other medical imaging principles.
3. Maintain satisfactory attendance to all classes and clinical rotations.
4. Use oral and written medical communication.
5. Provide quality patient care.
6. Recognize emergency patient conditions and initiate first aid and/or basic life support procedures.
7. Demonstrate knowledge of human physiology, pathology, patho-physiology, and systemic and sectional anatomy.
8. Integrate patient history and physical findings to determine appropriate area(s) of interest for obtaining a diagnostic examination.
9. Demonstrate knowledge and skills necessary to design and implement quality assurance programs, protocols, policies and procedures for general function and operation of the ultrasound department.
10. Demonstrate knowledge and proficiency in optimal recording and analysis of ultrasound data.
11. Demonstrate knowledge and understanding of the interactions of sound and tissue.
12. Demonstrate current knowledge related to bio-effects of ultrasound imaging.
13. Exercise professional judgment and discretion in obtaining diagnostic information and correlating findings with physicians.
14. Exercise professional judgment and discretion in communication with patients, co-workers, and the public concerning the field of ultrasound.
15. Demonstrate knowledge and understanding of related imaging, laboratory, and testing procedures and how they contribute to the clinical diagnosis of disease.
16. Identify sonographic representation of normal and abnormal anatomy.
17. Apply optimal scanning techniques and imaging for specific areas of interest.
18. Demonstrate knowledge of permanent image production methods, storage, and processing of both hard and soft copy images.
19. Actively appreciate the need for continuing education.
20. Develop a cooperative teamwork approach with other allied health professionals.

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## **Staff Clinical Instructor Orientation**

### **Policy:**

This policy serves to identify the procedure for orientation of new staff sonographers relative to their required duties as Staff Clinical Instructors for the Radiologic Technology Education Programs/ Ultrasound.

Individuals hired for the Position of Diagnostic Medical Sonographers at West Virginia University Hospitals will participate in the Staff Clinical Instructor orientation process after their initial employment and prior to being assigned a student. The orientation process will be conducted in the following manner.

### **Procedure:**

- I. The Radiology Manager will explain to the new employee his/her duties as a Staff Clinical Instructor for the Radiologic Technology Education Programs/Ultrasound, as described in the employee's job description. The Radiology Manager will point out that the staff sonographer job description requires that the sonographer perform in his/her capacity as a Staff Clinical Instructor.
- II. The Radiology Manager will notify the Education Coordinator when a new sonographer has been hired. The coordinator will schedule a time with which to meet with the new sonographer to describe the clinical education process. The agenda for this meeting shall include but will not be limited to the following:

### **The Education Coordinator will:**

- a. Describe to the new sonographer the process by which the student's clinical grades are formulated.
- b. Explain the proper procedure in which to complete the required evaluations (Weekly Evaluations, Competency/Proficiency Exams) on the electronic Trajecsys System.
- c. Describe the Program's Policy relative to the performance of Competency and Proficiency Examinations by the staff sonographers.
- d. Explain the "Guidelines for Supervision of Student Sonographers" policy, identifying the meaning of "direct" and "indirect" supervision.
- e. Identify the function of the student's Competency Worksheet and its practical application.
- f. Explain that at the end of each semester, the student is required to complete an evaluation on the Staff Clinical Instructor, which rates the quality of clinical education that the student received during the clinical rotations. These

evaluations will be given to the Radiology Manager prior to the Staff Clinical Instructor's annual performance appraisal.

- III. The Education Coordinator will document Staff Clinical Instructors orientation by having the Sonographer sign the Clinical Instructor Orientation check-list. The Education Coordinator will also provide the Sonographer with links to the program website and electronic Trajecsyst System to review the student handbook, policies and procedures.
- IV. Should the employee have specific questions relative to their duties as a Staff Clinical Instructor or desire further information concerning the operations of the Educational Program, they should direct these questions to the Radiology Manager and/or the Education Coordinator who will respond accordingly.

\_\_\_\_\_  
Education Coordinator

\_\_\_\_\_  
Date





**RADIOLOGIC TECHNOLOGY Education Programs**  
Radiography, Radiation Therapy, Nuclear Medicine, Ultrasound, & MRI

West Virginia University Hospitals  
Morgantown, WV 26506  
(304) 598-4251

- Review programmatic accreditation.
- Review job description and performance expectations and standards.

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**Clinical Instructor Signature**

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**Date**

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**Education Coordinator Signature**

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**Date**

### **Staff Clinical Instructor Evaluation**

The Staff Clinical Instructor Evaluation provides program officials with a mechanism for the evaluation of quality of the clinical education provided by Staff Clinical Instructors. These evaluations are completed by the diagnostic medical sonography students at the conclusion of each semester (3 total). The objective of this evaluation process is to identify the strengths and weaknesses of each clinical instructor and to identify potential student / technologist issues.

**The evaluation process will be conducted as follows:**

- A. During the student orientation week, the components of the Staff Clinical Instructor Evaluation form will be explained to the student. After the completion of each semester, each student will be required to complete an evaluation of the Diagnostic Medical Sonographers they have rotated with that semester. The student will be instructed to base their evaluation rating on the technologist instruction performance only. The importance of remaining objective in their evaluation criteria will be stressed.
- B. The student will rate the instructor from a scale of 1 to 5 in each category on the evaluation form.  
**(1 = Unsatisfactory, 2 = Needs Improvement, 3 = Satisfactory, 4 = Good, 5 = Outstanding)**
- C. Each student will submit individual clinical instructor evaluations to the Education Coordinator at the end of each semester.
- D. The average score produced by each student will be averaged together to produce an overall rating.
- E. Evaluations will be retained by the Education Coordinator. At the end of each semester, the Education Coordinator will distribute evaluation results to the Ultrasound manager for use in the annual performance appraisal of each staff technologist relative to their duties as staff clinical instructors.
- F. In the event that a technologist receives an evaluation that falls into the “needs improvement or unsatisfactory” category, the Education Coordinator will discuss the evaluation with the student evaluator. If the Clinical Supervisor deems that the evaluation is accurate and the performance of the technologist is detrimental to the clinical education process, the evaluation will be discussed with the Radiology manager and Ultrasound manager. If deemed necessary, the technologist will be counseled regarding their clinical instruction performance.
- G. In order to maintain the integrity of the evaluation and to allow students to complete the evaluation without fear of retribution, the student’s identification will be kept extremely confidential. At no time will the staff clinical instructor be provided with information regarding the identity of the student evaluator. Staff clinical instructors who wish to challenge a student’s evaluation may do so by submitting a formal complaint in writing to the Program Director. The Program Director and the Radiology/Ultrasound Manager will investigate the complaint and provide feedback to the staff clinical instructor relative to the validity of the student’s evaluation.

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Education Coordinator

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Date