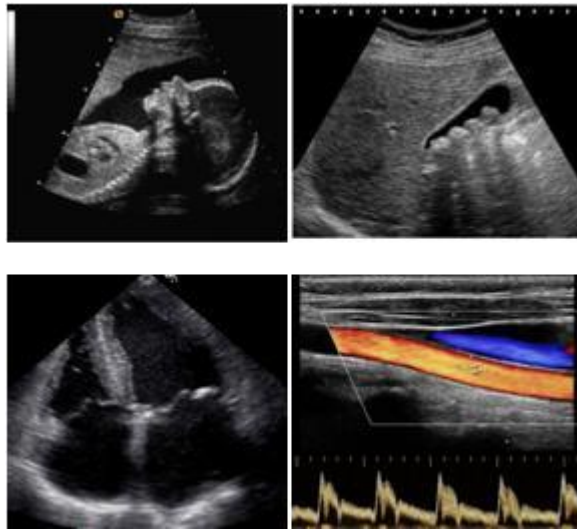




Terre Haute  
Diagnostic Medical  
SONOGRAPHY PROGRAM



**Information Packet**

Fall 2019 Program  
Terre Haute Campus  
General Sonography



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

Dear Interested Candidate:

Thank you for your interest in the Sonography Program at Ivy Tech Community College in Terre Haute. Enclosed you will find the application steps, information about the program, the current suggested curriculum sequence, the application form, and frequently asked questions.

Our College is accredited by the North Central Association of Colleges. The Sonography program is CAAHEP accredited for the Adult Echocardiography, Vascular and General concentrations. The mission of the Diagnostic Medical Sonography Concentration at Ivy Tech Community College, Terre Haute Campus is to provide a competency based educational experience that reflects the accepted standards of the profession and provides students with the knowledge, skills, and attitudes necessary to succeed as sonographers.

Sonography is truly an exciting field in healthcare; it is growing and changing every year. We want to help you with your goals to become a part of this healthcare team. Please carefully read through all the information in this packet. This application packet is the most current and replaces any other previously printed application packet. If you have any questions, please contact your Program Faculty Advisor.

Jennafer Grasfeder, MS, RT(R), RDMS (ABD, OB/GYN), RVT, RDCS  
Program Director/Chair  
812-298-2237  
[jgrasfeder@ivytech.edu](mailto:jgrasfeder@ivytech.edu)

Kaye Amend, BA, RVT, RDCS  
Clinical Coordinator  
812-298-2311  
[kamend1@ivytech.edu](mailto:kamend1@ivytech.edu)

Lurissa Everson  
Administrative Assistant  
812-298-2239  
[leverson@ivytech.edu](mailto:leverson@ivytech.edu)

FAX: 812-298-2392



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

# Diagnostic Medical Sonography

## **DEGREE AVAILABLE:**

Associate Applied of Science

## **CONCENTRATIONS AVAILABLE:**

General Sonography  
Vascular Sonography  
Cardiac Sonography

## **ACCREDITATION:**

The Ivy Tech Community College Diagnostic Medical Sonography Program is accredited for the General, Vascular and Adult Echocardiography concentrations by Commission on Accreditation of Allied Health Education Programs (CAAHEP). Accreditation status can be found at <http://www.caahep.org/Find-An-Accredited-Program/>

## **CAAHEP**

25400 US HWY 19 North, Suite 158,  
Clearwater, FL 33763, Phone 727-210-  
2350 Fax- 727-210-2354  
[Caahep.org](http://Caahep.org)

The Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS) is a member of CAAHEP and is responsible for the maintenance and promotion of quality education standards in diagnostic medical sonography. The JRC-DMS can be contacted at:

## **JRC-DMS**

6021 University Boulevard, Suite  
500Ellicott City, MD 21043, 443-973-3251  
(phone) | 866-738-3444 (fax)

[Jrcdms.org](http://Jrcdms.org)

## **SALARY RANGE:**

The mean salary for Sonographers is \$64,280 according to the 2010 Occupational Outlook Handbook:

<http://www.bls.gov/ooh/healthcare/diagnostic-medical-sonographers.htm>

Ultrasonography, commonly called sonography, is a diagnostic medical procedure that uses high frequency sound waves (ultrasound) to produce dynamic images of organs, tissues, or blood flow inside the body.

*Diagnostic medical sonographers* operate special equipment to direct high frequency sound waves into areas of the patient's body, which then collects reflected echoes and forms an image that may be videotaped, transmitted, or photographed for interpretation and diagnosis by a physician. Sonographers may be on their feet for long periods of time and may have to lift or turn patients.

Diagnostic medical sonographers may specialize in multiple areas of sonography such as abdominal, obstetric, gynecologic, vascular and cardiac.

Each concentration consists of a curriculum that includes patient care, sonographic technique, positioning, physics, pathology, and ethics (complete list is in this packet). Clinical practice and supplemental instruction are provided at approved clinical sites.

The Diagnostic Medical Sonography Program is a select admit program with limited enrollment based on clinical space availability. Once accepted, it is a full-time program with the students rotating to the clinical sites with didactic instruction at Ivy Tech Community College.

For some health programs, you may not be eligible to be licensed or certified if you have been convicted of a felony. Please check with the Program Chair if you have questions concerning this before enrolling in the program.



Ivy Tech Community College of Indiana - School of Health Sciences  
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## ***MISSION AND GOALS*** **DIAGNOSTIC MEDICAL SONOGRAPHY MISSION STATEMENT**

The mission of the Diagnostic Medical Sonography Concentration at Ivy Tech Community College, Terre Haute campus is to provide a competency based educational experience that reflects the accepted standards of the profession and provides students with the knowledge, skills, and attitudes necessary to succeed as sonographers.

### **PROGRAM GOALS**

According to JRC-DMS standards we set forth the following goals for the Program:

- "To prepare competent entry level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains" and/or
- "To prepare competent entry level adult cardiac sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains" and/or
- "To prepare competent entry level vascular technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains."



## Diagnostic Medical Sonography

### PHYSICAL DEMANDS AND REQUIREMENTS

Frequency: 0 = Occasionally (1-33%) F= Frequently (34-66%) C= Constantly (67-100%)

Function	Program-Specific Examples	Program-Specific Examples
<b>Gross Motor Skills</b>	<ul style="list-style-type: none"> <li>• Move within confined spaces</li> <li>• Sit and maintain balance</li> <li>• Stand and maintain balance</li> <li>• Reach above shoulders (e.g., put away supplies)</li> <li>• Reach below waist (e.g., plug electrical appliance into wall outlets)</li> </ul>	<b>F</b>
<b>Fine Motor Skills</b>	<ul style="list-style-type: none"> <li>• Pick up objects with hands</li> <li>• Grasp small objects with hands (e.g., syringe, pencil)</li> <li>• Write with pen or pencil</li> <li>• Key/type (e.g., use a computer)</li> <li>• Pinch/pick or otherwise work with fingers (e.g., manipulate a syringe)               <ul style="list-style-type: none"> <li>• Twist (e.g., turn objects/knobs using hands)</li> <li>• Squeeze with hand (e.g., blood pressure cuff)</li> </ul> </li> </ul>	<b>C</b>
<b>Physical Endurance</b>	<ul style="list-style-type: none"> <li>• Stand (e.g., at client side during minor or therapeutic procedure)               <ul style="list-style-type: none"> <li>• Sustain repetitive movements (e.g., CPR)</li> </ul> </li> <li>• Maintain physical tolerance (e.g., work entire shift)</li> </ul>	<b>C</b>
<b>Physical Strength</b>	<ul style="list-style-type: none"> <li>• Push and pull 50 pounds (e.g., position clients)               <ul style="list-style-type: none"> <li>• Support 50 pounds (e.g., ambulate client)</li> </ul> </li> <li>• Lift 50-100 pounds (e.g., pick up a child, transfer patient)               <ul style="list-style-type: none"> <li>• Move light objects weighing up to 10 pounds</li> <li>• Move heavy objects weighing from 25 to 100 pounds                   <ul style="list-style-type: none"> <li>• Defend self against combative client</li> </ul> </li> </ul> </li> <li>• Use upper body strength (e.g., perform CPR, restrain a client)               <ul style="list-style-type: none"> <li>• Squeeze with hands (e.g., operate fire extinguisher)</li> </ul> </li> </ul>	<b>F</b>
<b>Mobility</b>	<ul style="list-style-type: none"> <li>• Twist</li> <li>• Bend</li> <li>• Stoop/squat</li> <li>• Move quickly (e.g., response to an emergency)</li> <li>• Climb (e.g., ladders/stools/stairs)               <ul style="list-style-type: none"> <li>• Walk</li> </ul> </li> </ul>	<b>F</b>
<b>Hearing</b>	<ul style="list-style-type: none"> <li>• Hear normal speaking level sounds (e.g., person-to-person interview)               <ul style="list-style-type: none"> <li>• Hear faint voices</li> </ul> </li> <li>• Hear faint body sounds (e.g., blood pressure sounds)</li> <li>• Hear in situations when not able to see lips (e.g., when masks are used)               <ul style="list-style-type: none"> <li>• Hear auditory alarms (e.g., monitors, fire alarms)</li> </ul> </li> </ul>	<b>C</b>
<b>Visual</b>	<ul style="list-style-type: none"> <li>• See objects up to 20 inches away (e.g., information on a computer screen, skin conditions)</li> <li>• See objects up to 20 feet away (e.g., patient in a room)               <ul style="list-style-type: none"> <li>• See objects more than 20 feet away [e.g., client at end of hall]</li> </ul> </li> <li>• Use depth perception               <ul style="list-style-type: none"> <li>• Use peripheral vision</li> <li>• Distinguish color (e.g., color codes on supplies, charts, bed)</li> <li>• Distinguish color intensity (e.g., flushed skin, skin paleness)</li> </ul> </li> </ul>	<b>C</b>



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<b>Tactile</b>	<ul style="list-style-type: none"> <li>• Feel vibrations (e.g., palpate pulses)</li> <li>• Detect temperature (e.g., skin, solutions)</li> <li>• Feel differences in surface characteristics (e.g., skin turgor, rashes)</li> <li>• Feel differences in sizes, shapes (e.g., palpate vein, identify body landmarks)</li> <li>• Detect environmental temperature (e.g., check for drafts)</li> </ul>	<b>F</b>
<b>Smell</b>	<ul style="list-style-type: none"> <li>• Detect odors from client (e.g., foul smelling drainage, alcohol breath, etc.)</li> <li>• Detect smoke</li> <li>• Detect gases or noxious smells</li> </ul>	<b>F</b>
<b>Reading</b>	<ul style="list-style-type: none"> <li>• Read and understand written documents (e.g., policies, protocols)</li> </ul>	<b>F</b>

<b>Function</b>	<b>Program-Specific Examples</b>	<b>Program-Specific Examples</b>
<b>Arithmetic Competence</b>	<ul style="list-style-type: none"> <li>• Read and understand columns of writing (flow sheet, charts)               <ul style="list-style-type: none"> <li>• Read digital displays</li> <li>• Read graphic printouts (e.g., EKG)</li> <li>• Calibrate equipment</li> </ul> </li> <li>• Convert numbers to and/or from the Metric System               <ul style="list-style-type: none"> <li>• Read graphs (e.g., vital sign sheets)                   <ul style="list-style-type: none"> <li>• Tell time</li> </ul> </li> </ul> </li> <li>• Measure time (e.g., count duration of contractions, etc.)               <ul style="list-style-type: none"> <li>• Count rates (e.g., pulse)</li> <li>• Use measuring tools (e.g., thermometer)</li> </ul> </li> <li>• Read measurement marks (e.g., measurement tapes, scales, etc.)               <ul style="list-style-type: none"> <li>• Add, subtract, multiply, and/or divide whole numbers                   <ul style="list-style-type: none"> <li>• Compute fractions (e.g., medication dosages)                       <ul style="list-style-type: none"> <li>• Use a calculator</li> </ul> </li> </ul> </li> <li>• Write numbers in records</li> </ul> </li> </ul>	<b>C</b>
<b>Emotional Stability And Interpersonal Skills</b>	<ul style="list-style-type: none"> <li>• Establish therapeutic boundaries</li> <li>• Provide patient with emotional support               <ul style="list-style-type: none"> <li>• Adapt to changing environment/stress</li> </ul> </li> <li>• Deal with the unexpected (e.g., client going bad, crisis)               <ul style="list-style-type: none"> <li>• Focus attention on task</li> <li>• Monitor own emotions</li> </ul> </li> <li>• Perform multiple responsibilities concurrently               <ul style="list-style-type: none"> <li>• Handle strong emotions (e.g., grief)                   <ul style="list-style-type: none"> <li>• Negotiate interpersonal conflict</li> <li>• Respect differences in clients</li> <li>• Establish rapport with clients</li> </ul> </li> <li>• Establish rapport with co-workers</li> </ul> </li> </ul>	<b>C</b>
<b>Communication Skills</b>	<ul style="list-style-type: none"> <li>• Teach (e.g., client/family about health care)               <ul style="list-style-type: none"> <li>• Explain procedures</li> </ul> </li> <li>• Give oral reports (e.g., report on client's condition to others)               <ul style="list-style-type: none"> <li>• Interact with others (e.g., health care workers)                   <ul style="list-style-type: none"> <li>• Speak on the telephone</li> <li>• Influence people</li> <li>• Direct activities of others</li> </ul> </li> </ul> </li> <li>• Convey information through writing [e.g., progress notes)</li> </ul>	<b>C</b>
<b>Critical Thinking</b>	<ul style="list-style-type: none"> <li>• Identify cause-effect relationships</li> <li>• Plan/control activities for others</li> <li>• Synthesize knowledge and skills               <ul style="list-style-type: none"> <li>• Sequence information</li> </ul> </li> </ul>	<b>C</b>
<b>Analytical Thinking</b>	<ul style="list-style-type: none"> <li>• Transfer knowledge from one situation to another</li> <li>• Process information               <ul style="list-style-type: none"> <li>• Evaluate outcomes</li> </ul> </li> <li>• Problem solve               <ul style="list-style-type: none"> <li>• Prioritize tasks</li> </ul> </li> <li>• Use long term memory               <ul style="list-style-type: none"> <li>• Use short term memory</li> </ul> </li> </ul>	<b>F</b>



Ivy Tech Community College of Indiana - School of Health Sciences  
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### ***CRIMINAL BACKGROUND CHECKS AND DRUG TESTING INFORMATION***

In order to participate at the clinical sites, CRIMINAL BACKGROUND CHECKS and DRUG TESTING\*\*\* must be performed and the results must be satisfactory to the clinical sites to complete this portion of the coursework. Although personal information will be kept confidential, names and results of background checks, whether positive or negative, may be shared with any affiliating clinical site for the Diagnostic Medical Sonography Program in order to determine clinical eligibility. Some clinical sites may require you to show your criminal background check results to them.

As per College policy, if clinical site placement of the student is not successful, ***“...the student will be notified that s/he may not enroll in clinical courses and any co-requisite courses. In most cases, this will mean that the student will not be able to progress in the program, and will therefore not be able to complete the courses required for graduation.”*** Any existing clinical affiliate appeal processes will be shared with the student. The student is then responsible for managing their appeal directly with the clinical affiliate.

### **ETHICS ELIGIBILITY**

Completion of a criminal background check and drug screening for a Health Sciences program does not ensure eligibility for licensure, credentialing, or future employment. If you have any questions about your history/results please contact Jennafer Grasfeder, Program Director prior to accepting an offer to start the program to discuss steps to take in determining testing eligibility. You will be assisted with specific contact information for applicable credentialing organizations.

If you should have a criminal matter in your past after you have reached age 18, whether it is recent or not, you must contact the following credentialing body for eligibility that pertains to you:

American Registry of Radiologic Technologists at 651-687-0048

American Registry of Diagnostic Medical Sonographers at 800-541-9754

Cardiovascular Credentialing International at 800-326-0268

### **RANDOM DRUG TESTING**

Clinical affiliates can conduct additional background checks and drug screenings (including random drug screenings during clinical) at their discretion. These tests may be at the expense of the student.

*\*\*\*Additional criminal background checks and/or drug screenings will be required in programs for students enrolled in clinical courses more than 12 months.*

*Students who are not continuously enrolled in a program until completion may be required to complete additional checks upon re-entry to a program or admission to a different program in the School of Health Sciences or School of Nursing. Clinical sites or the College may request additional background checks or drug screenings at their discretion.\*\*\**

### ***CERTIFICATION/LICENSURE TRAINING DISCLAIMER***

Ivy Tech Community College –Terre Haute campus cannot guarantee that any student will pass a certification or licensing exam. Your success will be determined by several factors beyond the instruction you are given in the classroom including your test-taking skills, your willingness to study outside of class, and your satisfactory completion of appropriate practice exams. Certification and licensure exam questions are drawn from databases of hundreds of possible questions; therefore, a thorough understanding of the subject matter is required. The goal of Ivy Tech in providing a certification exam studies class is to assist you in understanding the material sufficiently to provide a firm foundation for your studies as you prepare for the exam.



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## General Sonography Concentration

Prerequisites (shaded area) and Program Curriculum Semester Sequence

<b>GENERAL EDUCATION PREREQUISITES 1<sup>ST</sup> SEMESTER</b>	<b>CREDITS</b>	<b>GENERALSONOGRAPHY CURRICULUM SEMESTER 5</b>	<b>CREDITS</b>
IVYT 112 - Student Success Elective	1	DMSI 201 – Ultrasound Physics II	3
APHY 101 – Anatomy & Physiology I *	3	DMSI 203 – OB/GYN Sonography II & Lab	4
MATH 136 - College Algebra*	3	DMSI 205 – General Sonography Clinical III	3
ENGL 111 – English Composition *	3	<b>Total</b>	<b>10</b>
HLHS 101 – Medical Terminology *	3		
<i>* Required for application to the program</i> <b>Total</b>	<b>13</b>		
<b>GENERAL EDUCATION PREREQUISITES 2<sup>ND</sup> SEMESTER</b>		<b>GENERALSONOGRAPHY CURRICULUM SEMESTER 6</b>	
APHY 102 – Anatomy & Physiology II	3	DMSI 206– General Sonography Clinical IV	3
COMM 101 – Speech or COMM102 – Interpersonal Communication	3	DMSI 295 – Sonography Exam Review	3
PSYC 101 – General Psychology or SOC 111 – Principles of Sociology	3	<b>Total</b>	<b>6</b>
RADT 117 – Radiation Physics & Equipment Operation	3		
<i>*Required for entrance into program</i> <b>Total</b>	<b>12</b>	<b>Total Credits</b>	<b>67</b>
<b>GENERALSONOGRAPHY CURRICULUM SEMESTER 3</b>			
DMSI 111 –Sonography Orientation/ Patient Care/ Cross Sectional Anatomy	5		
DMSI 102 – Abdominal Sonography I &Clinical Orientation	5		
DMSI 105 – General Sonography Clinical I	3		
<b>Total</b>	<b>13</b>		
<b>GENERALSONOGRAPHY CURRICULUM SEMESTER 4</b>			
DMSI 101 – Ultrasound Physics I	3		
DMSI 202– Abdominal Sonography II & Lab	4		
DMSI 113 – General Sonography Clinical II	3		
DMSI 103 – OB/GYN Sonography I & Lab	3		
<b>Total</b>	<b>13</b>		

Offered Every 3<sup>rd</sup> Year





Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Program Information

### Program Costs

- **In-State Tuition** is presently \$140.61 per credit hour. The Diagnostic Medical Sonography Program is 67 credits total so tuition would approximately be \$9420.87
  - Please see [www.ivytech.edu/tuition](http://www.ivytech.edu/tuition) for the most current tuition information.
- **Books** costs vary by course. The average cost for sonography books is about \$1200.00 for the 5 semesters.
- **Technology Fee** is \$75.00 per semester
- **Consumable fees** \$203.00; this includes supplies for certain courses like lab supplies.
- **Travel** students are also required to go to clinical 2-3 times a week. This means there will be travel expenses for gas and wear-and-tear on vehicles.
- **Uniforms** would include two sets of scrubs, lab coats and shoes (scrubs and lab coats must have the Ivy Tech logo and must be purchased at the Follett 7<sup>th</sup> Edition bookstore). Cost will vary.
- **Criminal Background Check and Drug Screening** Initial check = \$111.00; Annual re-check = \$76.00.
- **Physical, Immunizations, and Healthcare Provider CPR** Cost will vary.
- \*\*\*\*\**ALL ITEMS AND COST ARE ESTIMATES AND ARE SUBJECT TO CHANGE*\*\*\*\*\*

### Program Calendar

The program follows the same academic calendar as Ivy Tech Community College, Terre Haute campus. To view the most current academic calendar, please go to [ivytech.edu](http://ivytech.edu). Specific programming dates will be shared during orientation.

### Sonography Concentration Clinical Rotations

Students will be required to rotate to different hospitals and clinics for the clinical portion of their education. Students will be assigned locations before the clinical rotation begins. Proximity to a clinical site does not guarantee rotation to that site. Clinical may vary according to the concentration being offered and per semester. Clinical sites are located throughout the states of Indiana, Illinois, and Kentucky.



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Diagnostic Medical Sonography

### *APPLICATION AND SELECTION PROCESS*

#### **If You Are Planning To Apply To the Sonography Concentrations, PLEASE Read This Information Carefully**

The Sonography Program has a limited enrollment because of the limited number of clinical sites. Applications to the program and/or completion of prerequisite courses do not guarantee admission into the technical portion of the program.

#### **PRE- SONOGRAPHY STEPS:**

Since the Sonography Program is a selective program, it is important that you closely follow the application steps and the requirements that follow:

1. The following steps are required for new Ivy Tech Community College students
  - Complete the application process for Ivy Tech Community College in the Admissions Office at any campus or on-line at [www.ivytech.edu/apply-now](http://www.ivytech.edu/apply-now).
  - Provide any official college transcript(s) to Ivy Tech, Terre Haute campus.
  - Complete the Accuplacer or current assessment test, if applicable.
  - Make an appointment with your campus Academic Advising Center to help you with this process and to help you interpret your assessment scores.
  - If necessary, complete any of the Academic Skills courses required from the results of your ACCUPLACER test.
  - Attend a New Student Orientation
  - Complete required IVYT 112 before the start of the program
2. Once the student begins taking the General education courses (see the list in this packet), you will be assigned a Faculty Advisory in the Diagnostic Medical Sonography department.
  - The student needs to follow packet for the course sequencing
3. Meet all of the physical requirements (see sheet in packet).
4. Complete the prerequisites by the due dates (see next page).



Ivy Tech Community College of Indiana - School of Health Sciences  
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## Diagnostic Medical Sonography Application Requirements:

1. Apply to Ivy Tech Community College and have all transcripts sent accordingly.
2. Successfully complete the following four (4) prerequisite courses by the end of the Spring semester 2019. These courses will be awarded points for the final grade received:
  - APHY 101 – Anatomy and Physiology I
  - ENGL 111 – English Composition
  - HLHS 101 – Medical Terminology
  - MATH 136 – College Algebra
3. Successfully complete all other prerequisites by Summer 2019\*. The grades in these courses are not used in calculations for student selection. These courses are as follows:
  - PSYC 101 or SOCI 111 – Either Introduction to Psychology or Introduction to Sociology
  - COMM 101 or COMM 102 – Either Public Speaking or Interpersonal Communications
  - APHY 102 – Anatomy and Physiology II
  - RADT 117 - Radiation Physics & Equipment Operation\*\*
  - IVYT 112 - Student Success Elective

*\*Failure to do so would mean that the student would forfeit his or her spot and the next student with the highest points will be offered admittance into the program.*

*\*\* Subject to future change*

4. Take the Ultrasound Student Assessment (USA) Exam **before** April 1<sup>st</sup>, 2019.
  - This test is available in the testing centers of the Terre Haute and Sellersburg campus locations. Please contact Jennafer Grasfeder (contact information page 2) for more information. Scheduling information can be found on Ivy Tech's Diagnostic Medical Sonography web page.
  - This is an examination of inherent skills that are essential for the sonography profession. There is no studying required.
  - The test will evaluate hand-eye coordination, logic, reasoning, persistence, visual and spatial resolution, judgement, and graph interpretation.
  - This is a one-time per application round examination.
  - The student must pay the approved testing fee each time.
  - There is no time limit for this test. Typical time for test completion ranges from 30 minutes to 2 hours.
  - The "Combined Score" will be used as points on the application.
  - Students may take this exam one time per application cycle.
5. Send the paper Application for the Sonography Program to the Health Sciences Office (Terre Haute campus) along with completed application materials.
6. **Deadline is April 1<sup>st</sup>, 2019.**



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Getting Accepted

The following is an explanation about the process of accepting students into the Ivy Tech Community College Diagnostic Medical Sonography program.

**Acceptance into the Program:** Acceptance into the Sonography Program at Ivy Tech Community College, Terre Haute is a competitive based on grades earned in the required four (4) general education courses and the USA examination scores.

**Points for the Program:** For each final letter grade received in the four (4) prerequisites courses, the student will receive points according to the following scales:

**For APHY 101, MATH 136, and HLHS 101 Courses**

A = 6 points  
B = 4 points  
C = 2 points  
D = 0 points  
V = 6 points

**For ENGL 111 Course**

A = 3 points  
B = 2 points  
C = 1 points  
D = 0 points  
V = 3 points

**For Courses Taken More Than Once:** When the student has taken a prerequisite course more than once, **points will be determined using the highest grade for the initial (first) two course attempts** appearing on both Ivy Tech and other college transcripts, *this includes withdraws (“W”)*. Grades for courses over 3 years old may be excluded from consideration at the applicant’s written request. Excluding those grades from the admission point system does not affect calculation of the student’s grade point average (GPA).

**Ultrasound Student Assessment (USA) Examination:** The “Combined Score” – combination of the qualities being evaluated being termed physics (spatial, logic, graphs and problem solving) and clinical (visualization, judgement, dexterity, and persistence) will be used for determination of points for the selection process. These points and the point totals from the above general education courses will be added together for total points.

**The Application:** Include a completed copy of the **Application (page 15)** with your application materials.

**The Evaluation Grid:** Include a completed copy of the **Evaluation Grid (page 13)** with your application materials.

**Copy of Transcripts:** Transcripts need to be included with your application materials from Ivy Tech *and* any other colleges attended. Ivy Tech transcripts can be official or unofficial (Ivy Tech students can print transcripts from their student MYIVY account).

Good Luck!



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Evaluation Grid – Diagnostic Medical Sonography Program

Name \_\_\_\_\_ Student ID # \_\_\_\_\_

Please fill in the courses you have taken or are currently taking. If you are currently taking a course, please wait to fill in the grid when final grades are posted. *If you have taken a course more than once, points are determined using the highest grade for the first two course attempts (see page 12 for more information).*

Course Number and Name	Term Taken (Fall/Spring/Summer and Year)	Grade Received	Points Earned
APHY 101 Anatomy & Physiology I			
ENGL 111 English Composition			
MATH 136 College Algebra			
HLHS 101 Medical Terminology			
<i>COURSE POINT TOTAL:</i>			

**Points for Courses:** For each final letter grade received in the 4 prerequisites courses listed above, the student will receive points according to the following scales:

**For APHY, MATH, and HLHS**

- A = 6 points
- B = 4 points
- C = 2 points
- D = 0 points
- V = 6 points

**For ENGL Course**

- A = 3 points
- B = 2 points
- C = 1 points
- D = 0 points
- V = 3 points

**Points for the USA exam:** Point totals will be taken from the combined score which is adjusted from the raw cut scores of each category. If you are not able to access this score, please contact Jennafer Grasfeder for the information. Contact information on page 2.

USA Test Area	Points Earned
Combined Score	
<i>Course Point Total from Above</i>	+

**TOTAL POINTS** (USA Exam Combined Score + Course Point Total) = \_\_\_\_\_

Course Number and Name – <b><u>NOT FOR POINTS</u></b> (must be completed and passed before starting program courses)	Term Taken/Term Will Take (Fall/Spring/Summer and Year)	Grade Received
APHY 102 Anatomy & Physiology II		
COMM 101 Introduction to Public Speaking OR COMM 102 Interpersonal Communications		
PSYC 101 Introduction to Psychology OR SOC 111 Introduction to Sociology		
RADT 117 – Radiation Physics & Equipment Operation		
IVYT 112 - Student Success Elective		



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Checklist for Sonography Program

### College Admission Requirements:

1. Application to Ivy Tech Community College – Terre Haute Campus
2. Any Previous College Official Transcript(s)
3. ACCUPLACER (or other required assessment exam in place ) taken or SAT / ACT Scores evaluated
4. Attend a New Student Orientation
5. If you are attending another Ivy Tech, please request your student file to be sent to Terre Haute or submit items 1-4 to the Terre Haute campus to start a student file.

### Program Admission Requirements:

- Step 1 \_\_\_\_\_ Complete the APHY 101, ENGL 111, HLHS 101, and MATH 136 courses by the end of the Spring 2019 semester (use the evaluation grid on page 13 to document); complete the remaining four (4) courses plus IVYT 112 before beginning the Sonography program.
- Step 2 \_\_\_\_\_ Complete the Ultrasound Student Assessment (USA) exam before April 1, 2019.
- Step 3 \_\_\_\_\_ Obtain copies of all transcripts (other colleges and Ivy Tech) to turn in with your application materials. Ivy Tech transcripts are found through your Campus Connect account. (You may request assistance from the Records and Registration Office to help you locate transcripts on Campus Connect)
- Step 4 \_\_\_\_\_ **Complete and submit portfolio by April 1, 2019.**  
Application materials should be in the following order:
- Application (see page 15 of this packet)
  - Completed Evaluation Grid (see page 13 of this packet)
  - Copy of all college transcripts (official or unofficial)
  - ***All items must be submitted at the same time***

Mail your application materials to:

Ivy Tech Community College  
School of Health Sciences – DMSI program  
8000 South Education Drive  
Terre Haute, IN 47802

**Or you may drop it in the Health Sciences drop box at the end of Health Sciences in the B-hallway across from the restrooms.**



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

**APPLICATION TO THE DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM**

Name \_\_\_\_\_  
(Last) (First) (Middle)

Student ID # C0 \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone # \_\_\_\_\_

Daytime or Cell Phone Number # \_\_\_\_\_

Preferred E-Mail Address \_\_\_\_\_

By signing this Application, you acknowledge that completion of the following general education courses (PSYC 101 or SOCI 111, COMM 101 or COMM 102, RADT 117, IVYT 112 and APHY 102) must be completed and passed before starting program courses.

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

(Submit Application by **April 1, 2019** to the campus of which you want to apply. See contact information below.)

**Ivy Tech Community College of Indiana provides equal opportunity to all applicants. Applicants will be evaluated on merit not on basis of race, color, religion, creed, gender, national origin, disability, marital or veteran status, sexual orientation, or any other legally protected status.**

**OFFICIAL USE: Received on \_\_\_\_\_**

Ivy Tech Community College- Terre Haute  
8000 S. Education Drive  
Terre Haute, IN

Jennafer Grasfeder-Program Director  
812-298-2237  
[jgrasfeder@ivytech.edu](mailto:jgrasfeder@ivytech.edu)



Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

## Frequently Asked Questions (FAQ)

**1. Is the program accredited and how many students do you accept every year?**

General, Vascular and Adult Echocardiography concentrations are accredited and 15 Sonography students are accepted yearly.

**2. How many applications do you receive?**

It varies from year to year but average is around 75.

**3. Is there a waiting list?**

No, we do not use a waiting list. If an applicant is not selected, then he or she must reapply the following year.

**4. What is your deadline for the application?**

The deadline Diagnostic Medical Sonography April 1<sup>st</sup>, 2019.

**5. Where do I take the USA exam?**

Currently the test is offered at the Terre Haute campus Testing Center and the Sellersburg campus Testing Center. In the future it may be offered at other locations, but there is not a date set as of yet for the other locations. This test must be scheduled. If you need more information please contact Jennafer Grasfeder (info on page 2).

**6. How can I study for the USA exam?**

There is no study guide, therefore no studying is required. This is an exam of your personal qualities. These are qualities essential to the profession of sonography. Some of the qualities can be learned, some cannot and are completely inherent. There are some areas students may see a negative score in the raw cut score. This does not mean failure, it only identifies weaker areas in a particular quality.

**7. How are students selected?**

The selection process is decided by a point system. Points are awarded for the following:

- Final grades of the following: APHY 101 – Anatomy and Physiology I, ENGL 111 – English Composition, HLHS 101 – Medical Terminology, MATH 136.
- Combined score from the USA exam.

**8. What do I do if I have already completed a college degree?**

Have your official college transcripts sent to Terre Haute Ivy Tech to be evaluated. The evaluation will determine what classes will transfer and what additional courses need to be completed. If you are attending another Ivy Tech, please request official transcripts from other colleges to be sent to your home campus for evaluation before turning in your application materials.

**9. Should I include official or unofficial transcripts with my application?**

Either. Unofficial Ivy Tech transcripts are acceptable as long as they show the final grades for your classes, particularly from transfer courses. Ivy Tech students can print an unofficial transcript from Campus Connect.

**10. When are students selected? How will I know if I am accepted?**

The selection process will be sometime in May after spring grades have been posted. Students will receive an **e-mail** regarding acceptance, non-acceptance, or alternate status. Make sure the email address you submit on the application is valid and one you will check often.





Ivy Tech Community College of Indiana - School of Health Sciences  
Diagnostic Medical Sonography Program

**11. What do I need to do if I am accepted?**

If you are accepted, you will need to do the following:

- Attend required orientation.
- Have current immunizations verified by a medical doctor.
  - MMR, Varicella, Hepatitis B, Influenza, Tdap
- Have current 2-Step TB skin test.
- Have current Hepatitis C titer.
- Have current eye exam.
- Have current Healthcare Provider CPR certification.
- Submit to a criminal background check and drug screen.
- Required to travel to the various clinical sites.

*Details regarding the above will be discussed at the required orientation.*

**12. What happens if I am not accepted?**

If the student is not accepted into the program, the student may...

- Reapply the following year.
  - Students must submit a new application
- Consult with your advisor for other programs that you may complete or be eligible to pursue.
- Discuss with your Program Faculty Advisor on areas that need to be improved.
- Discuss with your Program Faculty Advisor an alternate plan.

**13. What will I learn in the Program?**

Sonography – The program is designed to prepare students to perform Sonographic procedures. Students may be introduced to other imaging modalities but will not learn how to do those medical procedures.

**14. Can I work and be in the program?**

You can but we do not recommend it. The regular hours of attending class and going to clinical are about 22-30 hours a week depending on the semester, and you still need study time on top of that. Summer semester requires more hours in that clinicals are 3 days per week.

**15. Do I have to drive to Terre Haute for classes?**

Yes, the program is Terre Haute based and students are required to attend classes at the Terre Haute campus. During the first half of the first semester of the program the student will perform labs on campus to prepare to begin clinicals during the second half of the semester. The labs will require time on campus minimally two days per week, typically taking three days per week in addition to the one class day. After the first half of the semester when clinicals begin, there will be labs dispersed throughout the program.

**16. What if my criminal background check or drug screens comes back positive?**

The student may or may not be able to complete the program clinical portion of the program. The clinical portion is a requirement for graduation. We strongly encourage you to inform the program chair of any possible issues that may show up on your background check or drug screen.

**17. Are All Sonography concentrations offered at the same time?**

No. We alternate the concentrations. If you are interested in a specific concentration, please contact the program for more information.