Terre Haute

Diagnostic Medical

SONOGRAPHY PROGRAM

Information and Application Directions
Fall 2020 Program
Terre Haute Campus
Adult Echocardiography
Dear Interested Candidate:

Thank you for your interest in the Sonography Program at Ivy Tech Community College in Terre Haute. This packet provides a brief description of the profession, admission and application procedures, basic information about the program and frequently asked questions. Please read this thoroughly and follow all directions.

Our College is accredited by the North Central Association of Colleges. The Ivy Tech Community College Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Accreditation Committee for Educational Programs for Diagnostic Medical Sonography (JRC-DMS). Our program is accredited for the general, vascular and adult echocardiography concentrations.

The mission of the Diagnostic Medical Sonography Concentration at Ivy Tech Community College, Terre Haute 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 enter the workforce as an entry-level sonographer.

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.
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 by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Accreditation Committee for Educational Programs for Diagnostic Medical Sonography (JRC-DMS). The program is accredited in the general, vascular and adult echocardiography concentration. 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

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

SALARY RANGE:

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, pathophysiology 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.
General Program Information

The following pages contain a large amount of information about the program. Please read all the information included and if then you have more questions, you can email: th-dmsi@ivytech.edu

Remember- sonography is a detail profession. In all healthcare professions, you must be able to follow directions and be observant. Please pay attention and carefully read the information as all of this is important to the process and your decision to apply to the program.
Accreditation

The Ivy Tech Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Accreditation Committee for Educational Programs for Diagnostic Medical Sonography (JRC-DMS). This means, we uphold the standards and rules set forth for the education of the profession of sonography. We take pride in the fact that we have earned the accreditation because this ensures we offer quality education of the profession while maintaining fair and equitable standards.

Having earned accreditation enables students and graduates the ability to apply to take registry exams upon graduation and even early if so desired. This and dedicated hard work can open more potential job opportunities.

Mission and Goals
Diagnostic Medical Sonography Program Mission Statement

The mission of the Diagnostic Medical Sonography Concentration at Ivy Tech Community College Wabash Valley Region 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.”

INFORMATION YOU SHOULD KNOW BEFORE APPLYING

The Diagnostic Medical Sonography Program is based out of Terre Haute; however, we have a satellite location on the Sellersburg campus. This application is for the program based out of Terre Haute.

We have the same goals, objectives and processes in the both locations. There are equitable resources and learning opportunities between the programs. The instructors and administration are the same for both programs. The programs are essentially the same- with the exception of the location.
**Are you right for this program and profession?**

This profession is the most operator dependent of all imaging professions and many healthcare professions in general. The sonographer is responsible for acquiring the needed images for physicians to make accurate diagnoses of patient conditions. If a sonographer does not accurately image pathology, the doctor may never see or know about the pathology, which in turn could be tragic for the patient. Sonographers often are the first and only people to see a life-threatening condition, and must take the responsibility to handle the information correctly, to have the patient treated in a timely manner. The sonographer must know all anatomy and physiology to know if something is wrong and must handle the process in documenting the pathology to be accurately interpreted by the physician. Sonographers have the ability to make something normal look abnormal or something abnormal look normal and therefore the responsibility to make sure of image accuracy. Ethics in all work and extreme responsibility is part of this profession.

This is not an easy profession. Sonographers also deal with a great amount of bodily fluids and tissues, with wounds, biopsies, and sick individuals. There is also a great amount of physical strain on the body from long periods of standing, bending, pulling and tugging on equipment and patients. Sonography also involves many emotions and often heartache that is difficult to cope with. A sonographer must be able to relay compassion and be empathic in difficult situations. The profession and workplace can be stressful due to workload and being on-call for multiple hours with little sleep. There are many difficulties and responsibilities in this profession.

These are but a few of the considerations regarding this profession. With all of this being said, some may question why anyone would want to do this profession. For those who encompass the wonder of the science, find joy in continual, life-long learning, love challenges, and embrace the ability to help others and provide a needed service to patients, this is the BEST career in the world!

**Application due date and program start**

Applications are due April 1, 2020

The program begins in the fall semester of 2020

**How the program is structured**

The Diagnostic Medical Sonography Program is a **full-time program** and will run over four continuous semesters, summer, fall, spring and summer.

The program is a hybrid program. While there are many online assignments, sonography is a **hands-on profession and therefore requires a hands-on education** and an on-campus presence.

Prerequisite classes can be taken online or from any campus, if preferred.

If accepted into the program, the first 8 weeks of the fall semester is spent in intensive labs to prepare you for clinicals. The labs will take 25-30 hours and class is one additional day per week. The second 8 weeks is clinicals 2 days per week and class one day per week. The spring semester will be clinicals 2 days and class
one day. The summer semester is clinicals 3 days and class one day and the final semester (fall) is clinicals 2 days per week and class one day.

**This application is for the sonography concentration of:**

Adult Echocardiography

**The sonography program is a select admit program**

This program accepts 15 students yearly. The top 15 applicants are determined through points earned from grades in four prerequisite classes and points from the USA exam. These classes are Anatomy and Physiology I, Math 136, Medical Terminology, and English 111.

You must have all classes that are counted for points completed by the end of the spring semester, 2020. All other prerequisite courses must be completed by the end of the summer semester, 2020.

You may not have all point classes complete by April 1, 2020 but at minimum must be enrolled in them and have a passing completion by the end of spring, 2020. If this is the case, you would simply write “currently enrolled” on your application for those classes. The application evaluator will verify grades for those classes and assign the correct points.

Make sure your application is not late! All applications must be in the Health Sciences drop box by campus closing April 1, 2020 or be postmarked no later than April 1, 2020.

**Radiation physics course – RADT 117**

One of the prerequisite classes that need to be completed is the radiation physics course. This course must be completed to be admitted into the program. This course is only offered as an online option for the sonography prerequisite. In order to become registered for this course, you must have completed Math 136 or be enrolled in the math class the same semester as the enrollment of the RADT 117 class. Also, you must email Jennafer Grasfeder or Kaye Amend from your IVY TECH email and include your C number with a request to be enrolled in the class.

**Other concentrations offered in other years and how the concentration is determined:**

Vascular

General

We want graduates to have the ability to obtain employment in the field in which they studied and also meet the needs of the healthcare community. The concentration being offered each year is determined through assessment of the area employment needs. This process involves surveys and contact of facilities that employ individuals of the profession. The concentration is determined a little more than a year in advance of the application due date.


**Previous degrees and college credits**

If you have college credits or even a degree already but are interested in applying for the program, you may be able to transfer prerequisite courses already taken into Ivy Tech.

You will need to apply to Ivy Tech – the college- and once accepted you will be given a “C” number. When you have the “C” number, you can have your OFFICIAL* transcripts sent to Ivy Tech for evaluation to see which courses will transfer.

Any courses sought for transfer must come from a regionally accredited institution and transcripts must be official.

*Official transcripts means that it has been sent from the educational institution to Ivy Tech and you have not handled the document in any way. This can also be done by the original school sending the transcripts electronically to Ivy Tech. You can have your transcripts sent via email from the issuing institution to transcripts@ivytech.edu or if you choose to pick them up from the issuing school they must be brought to Ivy Tech in an envelope sealed by the issuing institution. If the seal is broken, the transcripts are not considered official.

**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 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/ Licensing Disclosure

Ivy Tech Community College – Wabash Valley Region 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.

Program Costs

- **In-State Tuition** is presently $145.01 per credit hour. The Diagnostic Medical Sonography Program is 67 credits total so tuition would approximately be $9715.67
  - 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 Barnes and Noble 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, Terre Haute. To view the most current academic calendar please go to [https://www.ivytech.edu/calendar/index.html](https://www.ivytech.edu/calendar/index.html)
Sonography 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 each clinical rotation begins. Proximity to a clinical site does not guarantee rotation to that site. Clinical site availability may vary according to the concentration being offered and per semester. Clinical sites are located throughout the state of Indiana, Illinois, and Kentucky.

Each student is required to rotate to clinical sites that may be over an hour and half away from your home, regardless of what gas prices may be. This is necessary to ensure every student has the opportunity to participate in an equitable educational experience covering a broad range of required clinical procedures. There are no exceptions to this rule. Students may be placed at any of these sites to complete clinical requirements for the program.

The clinical coordinator and program director will determine the clinical assignments. No student input will be accepted, unless there is a legal issue that the program must be made aware of between the student and a particular site.

What order is the program sequenced?

If accepted, the program runs continuously through four semesters. The prerequisite courses may be taken from any Ivy Tech campus or online. If these courses have been taken previously from another college, you must submit your official transcripts for evaluation to know what courses must be taken for application.

The order of the program and the prerequisite courses are listed in the grid on the following page.
# Cardiac Sonography Concentration

Prerequisites (shaded area) and Program Curriculum Semester Sequence

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1ST SEMESTER</td>
<td></td>
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<tr>
<td>IVYT 112 - Student Success Elective</td>
<td>1</td>
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<tr>
<td>APHY 101 – Anatomy &amp; Physiology I *</td>
<td>3</td>
<td></td>
<td>DMSI 201 – Ultrasound Physics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 136 - College Algebra*</td>
<td>3</td>
<td></td>
<td>DMSI 220 - Cardiac III and Lab III</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111 – English Composition *</td>
<td>3</td>
<td></td>
<td>DMSI 217 – Cardiac Clinical III</td>
<td>3</td>
</tr>
<tr>
<td>HLHS 101 – Medical Terminology *</td>
<td>3</td>
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<td>Total</td>
<td>10</td>
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* Required for application to the program

<table>
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<tr>
<th>2ND SEMESTER</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>APHY 102 – Anatomy &amp; Physiology II</td>
<td>3</td>
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<tr>
<td>COMM 101 – Speech or COMM102 – Interpersonal Communication</td>
<td>3</td>
<td></td>
<td>DMSI 219 – Cardiac Clinical IV</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101 – General Psychology or SOCI 111 – Principles of Sociology</td>
<td>3</td>
<td></td>
<td>DMSI 295 – Sonography Exam Review</td>
<td>3</td>
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<tr>
<td>RADT 117 – Radiation Physics &amp; Equipment Operation</td>
<td>3</td>
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<tr>
<td>Total</td>
<td>12</td>
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</table>

* Required for entrance into program

<table>
<thead>
<tr>
<th>SEMESTER 3</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DMSI 107 - Cardiac I &amp; Lab I</td>
<td>5</td>
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<tr>
<td>DMSI 117 - Cardiac Clinical I</td>
<td>3</td>
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<tr>
<td>DMSI 111 - Orientation/Pt. Care/Cross Sect.</td>
<td>5</td>
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<td>Total</td>
<td>13</td>
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<tr>
<th>SEMESTER 4</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSI 101 – Ultrasound Physics I</td>
<td>3</td>
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<tr>
<td>DMSI 160 – Cardiac II and Lab II</td>
<td>4</td>
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<tr>
<td>DMSI 119 - Cardiac Clinical II</td>
<td>3</td>
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<tr>
<td>DMSI 190 – Hemodynamics and EKG</td>
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<tr>
<td>Total</td>
<td>13</td>
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</table>
Diagnostic Medical Sonography

*PHYSICAL DEMANDS AND REQUIREMENTS*

Sonography is a challenge on many aspects. While most think about the very important visual component, there are many physical demands that are often not considered. Below are the minimum physical requirements and all can be found at [https://www.onetonline.org/link/summary/29-2032.00](https://www.onetonline.org/link/summary/29-2032.00)

- **Standing** - Standing is required 95-100% of the time throughout the assigned clinical hours. Essentially, the position cannot be performed without the ability to stand for long periods of time.

- **Walking** - Walking is required 90-100% of the time during the course of the assigned clinical hours.

- **Climbing** - Climbing is not required except for stairs.

- **Pushing** - Pushing is required for moving the patients to and from the x-ray table

- **Pulling** - Pulling is required for both short and long durations when moving patients onto tables and when transporting to and from units. Imaging equipment may include tubes, monitors, or portables requiring significant physical exertion.

- **Lifting** – Up to 50 lbs. Most significant: must be able to assist patient to and from exam table

- **Carrying** - Students consistently carry equipment and other supplies. See lifting.

- **Exposure to Disease** - On a daily basis, involves caring for the patients with known and potential infections

- **Handling Repulsive Tasks** - Involves handling and disposing of body secretions, blood, stool, etc. The general cleaning and maintenance of an incontinent patient is not uncommon

- **Working in Confined Places** - Confined places included the processing darkroom, which is frequently used each day, each time being 1-5 minutes in duration. Must be able to work around constantly running water

- **Exposure to Potentially Harmful Radiation** - Daily contact with radiation producing devices.

- **Visual** – 20/100 vision, correctable (with glasses or contacts) to 20/30 in one eye or 20/100 vision correctable (with glasses or contacts) to 20/40 in both eyes. Students must be able to distinguish colors.

- **Auditory and Speech** – Student must be able to respond to auditory codes, phones, equipment noise, and/or verbal expressions from patients and physicians for proper patient care. The student must be able to verbally communicate medical information to the patient, staff, physicians, and general public.

* If you do not meet these requirements, check with the disability representative at your campus for additional assistance.

If accepted into the program you will be required to have a physical that will evaluate for certain functions. The list is below.
## Diagnostic Medical Sonography

### PHYSICAL DEMANDS AND REQUIREMENTS

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

<table>
<thead>
<tr>
<th>Function</th>
<th>Program-Specific Examples</th>
<th>Program-Specific Examples</th>
</tr>
</thead>
</table>
| **Gross Motor Skills** | • Move within confined spaces  
• Sit and maintain balance  
• Stand and maintain balance  
• Reach above shoulders (e.g., put away supplies)  
• Reach below waist (e.g., plug electrical appliance into wall outlets) | F                         |
| **Fine Motor Skills**  | • Pick up objects with hands  
• Grasp small objects with hands (e.g., syringe, pencil)  
• Write with pen or pencil  
• Key/type (e.g., use a computer)  
• Pinch/pick or otherwise work with fingers (e.g., manipulate a syringe)  
• Twist (e.g., turn objects/knobs using hands)  
• Squeeze with hand (e.g., blood pressure cuff) | C                         |
| **Physical Endurance** | • Stand (e.g., at client side during minor or therapeutic procedure)  
• Sustain repetitive movements (e.g., CPR)  
• Maintain physical tolerance (e.g., work entire shift) | C                         |
| **Physical Strength**  | • Push and pull 50 pounds (e.g., position clients)  
• Support 50 pounds (e.g., ambulate client)  
• Lift 50-100 pounds (e.g., pick up a child, transfer patient)  
• Move light objects weighing up to 10 pounds  
• Move heavy objects weighing from 25 to 100 pounds  
• Defend self against combative client  
• Use upper body strength (e.g., perform CPR, restrain a client)  
• Squeeze with hands (e.g., operate fire extinguisher) | F                         |
| **Mobility**         | • Twist  
• Bend  
• Stoop/squat  
• Move quickly (e.g., response to an emergency)  
• Climb (e.g., ladders/stools/stairs)  
• Walk | F                         |
| **Hearing**          | • Hear normal speaking level sounds (e.g., person-to-person interview)  
• Hear faint voices  
• Hear faint body sounds (e.g., blood pressure sounds)  
• Hear in situations when not able to see lips (e.g., when masks are used)  
• Hear auditory alarms (e.g., monitors, fire alarms) | C                         |
| **Visual**           | • See objects up to 20 inches away (e.g., information on a computer screen, skin conditions)  
• See objects up to 20 feet away (e.g., patient in a room)  
• See objects more than 20 feet away (e.g., client at end of hall)  
• Use depth perception  
• Use peripheral vision  
• Distinguish color (e.g., color codes on supplies, charts, bed)  
• Distinguish color intensity (e.g., flushed skin, skin paleness) | C                         |
| **Tactile**          | • Feel vibrations (e.g., palpate pulses)  
• Detect temperature (e.g., skin, solutions)  
• Feel differences in surface characteristics (e.g., skin turgor, rashes)  
• Feel differences in sizes, shapes (e.g., palpate vein, identify body landmarks)  
• Detect environmental temperature (e.g., check for drafts) | F                         |
| **Smell**            | • Detect odors from client (e.g., foul smelling drainage, alcohol breath, etc.)  
• Detect smoke  
• Detect gases or noxious smells | F                         |
<p>| <strong>Reading</strong>          | • Read and understand written documents (e.g., policies, protocols) | F                         |</p>
<table>
<thead>
<tr>
<th>Function</th>
<th>Program-Specific Examples</th>
<th>Program-Specific Examples</th>
</tr>
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<tbody>
<tr>
<td><strong>Arithmetic Competence</strong></td>
<td>• Read and understand columns of writing (flow sheet, charts)</td>
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<tr>
<td></td>
<td>• Read graphic printouts (e.g., EKG)</td>
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<td></td>
<td>• Calibrate equipment</td>
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<td></td>
<td>• Convert numbers to and/or from the Metric System</td>
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<td></td>
<td>• Read graphs (e.g., vital sign sheets)</td>
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<td></td>
<td>• Tell time</td>
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<tr>
<td></td>
<td>• Measure time (e.g., count duration of contractions, etc.)</td>
<td>C</td>
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<tr>
<td></td>
<td>• Count rates (e.g., pulse)</td>
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<tr>
<td></td>
<td>• Use measuring tools (e.g., thermometer)</td>
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<td></td>
<td>• Read measurement marks (e.g., measurement tapes, scales, etc.)</td>
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<td></td>
<td>• Add, subtract, multiply, and/or divide whole numbers</td>
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<td></td>
<td>• Compute fractions (e.g., medication dosages)</td>
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<td>• Use a calculator</td>
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<td></td>
<td>• Write numbers in records</td>
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<tr>
<td><strong>Emotional Stability and Interpersonal Skills</strong></td>
<td>• Establish therapeutic boundaries</td>
<td>C</td>
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<tr>
<td></td>
<td>• Provide patient with emotional support</td>
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<tr>
<td></td>
<td>• Adapt to changing environment/stress</td>
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<tr>
<td></td>
<td>• Deal with the unexpected (e.g., client going bad, crisis)</td>
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<tr>
<td></td>
<td>• Focus attention on task</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Monitor own emotions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Perform multiple responsibilities concurrently</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Handle strong emotions (e.g., grief)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Negotiate interpersonal conflict</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Respect differences in clients</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Establish rapport with clients</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Establish rapport with co-workers</td>
<td></td>
</tr>
<tr>
<td><strong>Communication Skills</strong></td>
<td>• Teach (e.g., client/family about health care)</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>• Explain procedures</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Give oral reports (e.g., report on client’s condition to others)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Interact with others (e.g., health care workers)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Speak on the telephone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Influence people</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Direct activities of others</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Convey information through writing (e.g., progress notes)</td>
<td></td>
</tr>
<tr>
<td><strong>Critical Thinking</strong></td>
<td>• Identify cause-effect relationships</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>• Plan/control activities for others</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Synthesize knowledge and skills</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Sequence information</td>
<td></td>
</tr>
<tr>
<td><strong>Analytical Thinking</strong></td>
<td>• Transfer knowledge from one situation to another</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>• Process information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Problem solve</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Use long term memory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Evaluate outcomes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Prioritize tasks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Use short term memory</td>
<td></td>
</tr>
</tbody>
</table>
Diagnostic Medical Sonography
APPLICATION AND SELECTION PROCESS

If You ArePlanning 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. The program will accept 15 students to each cohort.

PRE-SONOGRAPHY PROGRAM APPLICATION STEPS:

Since the Sonography Program is a select admit 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.
   • 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 entrance assessment.
   • Attend a New Student Orientation
   • Complete required IVYT 112 and all prerequisite courses 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 essential functions in packet).

4. Complete the prerequisites by the due dates (see application deadline).
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 2020. 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 end of spring semester, 2020. 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
   - AHPY 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 name change

4. **Take the USA- Ultrasound Student Assessment - test before April 1st, 2020:**

   **PLEASE READ ALL OF THE INFORMATION BELOW ABOUT THE USA EXAM**

   - Refer to campus-specific instructions to register/schedule for the USA test. This is found on Ivy Tech’s Diagnostic Medical Sonography web page. The step by step instructions are at the end of this packet also.
   - This test is available in the testing centers of the Terre Haute and Sellersburg campus locations.
   - This is an examination of intrinsic 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, detail perception, judgement, and graph interpretation.
   - Students may take this exam one time per application cycle.
   - 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.
   - In order to receive your score for the test, you must EMAIL- Kaye Amend or Jennafer Grasfeder. Email addresses are on page 19.
   - Send the paper Application for the Sonography Program to the Health Sciences Office (Terre Haute campus) along with a completed application materials.
   - **Deadline is April 1, 2020.**
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 points awarded for the combined score of the USA exam. Tie breaker would be based then on GPA.

**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:

<table>
<thead>
<tr>
<th>For APHY 101, MATH 136, and HLHS 101 Courses</th>
<th>For ENGL 111 Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 6 points</td>
<td>A = 3 points</td>
</tr>
<tr>
<td>B = 4 points</td>
<td>B = 2 points</td>
</tr>
<tr>
<td>C = 2 points</td>
<td>C = 1 points</td>
</tr>
<tr>
<td>D = 0 points</td>
<td>D = 0 points</td>
</tr>
<tr>
<td>V = 6 points</td>
<td>V = 3 points</td>
</tr>
</tbody>
</table>

**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 with your application materials.

**The Evaluation Grid:** Include a completed copy of the Evaluation Grid 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 My Ivy account). If courses from other institutions have been transferred and are on your Ivy Tech transcript, you only need to print the transcript online.

It is very important that if you are using courses from other institutions, that you have these courses sent for transfer evaluation. If they do not transfer as the same class, then you may not have all prerequisite classes complete.

Good Luck!
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 by CAAHEP on the recommendation of the JRCDMS. 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, 2020

5. Where do I take the USA exam?
   Currently the exam may be taken at the Terre Haute or Sellersburg testing centers. This test must be scheduled (see scheduling instructions at the end of this packet). If you need more information please contact Jennafer Grasfeder.

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 using the conversion chart from the USA exam.
   - The top 15 students are offered positions. If a student declines their position then it is offered to the next highest point earner.

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 MyIvy.

10. When are students selected? How will I know if I am accepted?
    The selection process will be notified by the first week in April. Students will receive an e-mail regarding acceptance, non-acceptance. Make sure the email address you submit on the application is valid and one you will check often.

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 and or lab range from 25-32 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. What if my criminal background check or drug screens come 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.

16. 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.

17. Will my USA scores expire?
   The scores are good for 5 (five) years. This test is NOT specific to each concentration. You may take the exam each application cycle if you choose.

Contact --- th-dmsi@ivytech.edu for more information.

Program Personnel

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812-298-2237

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Kourtney Gummere, MLD
Academic Advisor/International Admission DSO
kgummere@ivytech.edu
Office: 812-298-2210
Steps to schedule your USA (Ultrasound Student Assessment) Exam at an Ivy Tech Community College Campus:

Step 1 – Schedule your USA exam by clicking on the CASS Self-Serve link: [www.ivytech.edu/schedulenow](http://www.ivytech.edu/schedulenow) also now in MyIvy located under Student / Course Info / Schedule Testing Appointment.

Step 2 – Click on Student Login and use your Ivy Tech email address and password.

Step 3 – Click on “Certification and all other exams”.

Step 4 – Click on the link “This exam is not associated with an Ivy Tech course.”

Step 5 – Type in USA for the test name.

Step 6 – Select Ultrasound Student Assessment (USA) and click next.

Step 7 – Select the campus where you would like to schedule the exam and click next.

Step 8 – Click on the red calendar and select the date for your exam appointment and click next.

Step 9 – Use the dropdown box and select the time for your appointment and click next.

Step 10 – Review your appointment details and click next.

Step 11 – Select “Pay now via credit card online”. The cost of the exam is $65.00 for students.

Step 12 – Click on “Credit Card Payment Form” and complete credit card payment transaction.

Step 13 – Click on “Submit My Appointment Request”.

Step 14 – Watch for your payment receipt and confirmation emails for your appointment request.
USA Test Points

Please refer to the chart below when applying the points from your USA test.

(Ex: USA score is 4.3** in the combined score- Use 2.5 points in your application)

<table>
<thead>
<tr>
<th>Combined Score</th>
<th>Points Earned on Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative – 0</td>
<td>0</td>
</tr>
<tr>
<td>0-1</td>
<td>1</td>
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<tr>
<td>2</td>
<td>1.5</td>
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<tr>
<td>3</td>
<td>2</td>
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<td>4</td>
<td>2.5</td>
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<td>3.5</td>
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<td>8</td>
<td>4.5</td>
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<td>5</td>
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<td>10</td>
<td>5.5</td>
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<td>12</td>
<td>6.5</td>
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<td>13</td>
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<td>7.5</td>
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<td>16</td>
<td>8.5</td>
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<td>17</td>
<td>9</td>
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<tr>
<td>18</td>
<td>9.5</td>
</tr>
<tr>
<td>19 and above</td>
<td>10</td>
</tr>
</tbody>
</table>

** Please round to the nearest tenth.