

## ASCENSION



# ST. VINCENT COLLEGE OF HEALTH PROFESSIONS

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## Catalog 2022 - 2023

#### **Content Statement**

This Catalog represents the health programs offered by Ascension St. Vincent hospital under the national accreditation of the Ascension St. Vincent College of Health Professions and the associated policies and procedures at the time of publication. This Catalog and the provisions contained herein do not represent in any way a contract between the Ascension St. Vincent, any Ascension St. Vincent hospital of the St. Vincent College of Health Professions and applicant, student or graduate. The Ascension St. Vincent or the Ascension St. Vincent College of Health Professions does not guarantee in any way employment following completion of any program. Furthermore, Ascension St. Vincent or the Ascension St. Vincent College is not responsible for any misrepresentation of its requirements or provisions that might arise because of errors in the preparation of this publication.

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While we make a reasonable effort to assure that all information contained herein is updated and accurate, the Ascension St. Vincent reserves the right to modify, revoke, or add regulations, policies, fees, or requirements at any time and without prior notice. Candidates are advised to consult the appropriate program director for current information.

#### **Rules and Regulations**

This Catalog provides an overview of the policies, procedures, rules and regulations that impact current and prospective students. Detailed policies, procedures, rules and regulations are included in each program's Student Handbook given to each student on the first day of student enrollment. A copy of the Student Handbook can be obtained by contacting the respective Program Director listed herein.

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**Catalog Approval:** 

College President

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Dear Prospective Allied Health Students,

We want to welcome and encourage you to explore Ascension St. Vincent and the College of Health Professions! Ascension St. Vincent serves to educate and train qualified individuals in allied health disciplines that are offered in the Ascension St. Vincent ministries.

Under the sponsorship of Ascension St. Vincent, the College of Health Professions was formed to include allied health programs that to award students the appropriate certification required for entry-level employment. The College is institutionally accredited by the Accrediting Bureau of Health Education Schools (ABHES) and offers an Associate of Applied Science degree to approved programs. This accreditation makes the Ascension St. Vincent College of Health Professions the only hospital-sponsored academic institution in Indiana accredited to award academic degrees. The College is also authorized by the Indiana Commission on Higher Education, Board for Proprietary Education.



We value individuals and want to make a positive difference in

the lives of patients we serve. Our commitment is to provide students with the highest quality health education available and the appropriate pathway to professional certification. Each program has designed a rigorous curriculum with an active clinical and field participation. Please take some time to look over the information presented.

Our goal is to serve as a model for hospital-based allied health education and training and we are looking for individuals that are called to serve and learn in our hospital communities. Please let us know if you have any questions. We hope to hear from you soon. Thank you for your interest and may God bless you.

Al smith

Jeffrey Rothenberg, MD, College President, Ascension St. Vincent College of Health Professions Chief Medical Officer, Ascension St. Vincent Central Region

### **Section I**

**Ascension St. Vincent** 

### Ascension St. Vincent

The Ascension St. Vincent College of Health Professions operates as a d/b/a of Ascension St. Vincent Hospital, which itself is a subsidiary of Ascension, the largest Catholic health system in the world and the largest nonprofit health system in the United States. Our Catholic



health ministry is dedicated to spiritually centered, holistic care that sustains and improves the health of individuals and communities. Through our national health ministries, we promise to provide <u>Healthcare</u> <u>That Works</u>, <u>Healthcare That is Safe</u>, and <u>Healthcare That Leaves No One Behind</u>. In support of our healing Mission and driven by compassion and dedication to care for those most in need, Ascension has become a leading voice for Catholic healthcare in the United States. Ascension St. Vincent is dedicated to spiritually centered, holistic care that sustains and improves the health of individuals and communities. As an organization rooted in humanity, Ascension St. Vincent is committed to serving all persons, especially the poor and vulnerable, and advocate compassion in actions and words. To learn more about Ascension and Ascension St. Vincent, visit <u>http://www.stvincent.org/</u> and <u>https://ascension.org/</u>.

### **Ascension St. Vincent Mission**

Rooted in the loving ministry of Jesus as healer, we commit ourselves to serving all persons with special attention to those who are poor and vulnerable. Our Catholic health ministry is dedicated to spiritually centered, holistic care, which sustains and improves the health of individuals and communities. We are advocates for a compassionate and just society through our actions and our words.

### Ascension St. Vincent Core Values

Ascension St. Vincent is dedicated to minister to the mind, body, and spirit of anyone in need through the Core Values of Ascension St. Vincent.

- Service to the Poor generosity of spirit for persons most in need
- <u>**Reverence**</u> Respect and compassion for the dignity and diversity of life
- Integrity Inspiring trust through personal leadership
- <u>Creativity</u> Courageous innovation
- <u>Wisdom</u> Integrating excellence and stewardship
- **Dedication** Affirming the hope and joy of our ministry

### **Ascension St. Vincent Facilities**

Ascension St. Vincent consists of 22 healthcare facilities, immediate care clinics and physician practices serving 57 counties in central and southern Indiana. With more than 16,000 associates and 3,000 physicians, Ascension St. Vincent Health has long been one of the largest employers in Indiana. Our health practices include:

- A 4-building medical complex on the north side of Indianapolis
- 3 large state-of-the-art hospitals in Indianapolis, Kokomo and Anderson
- 8 critical access hospitals
- 7 specialty hospitals









St. Vincent Anderson 2015 Jackson Street Anderson Indiana 46016 765-649-2511

St. Vincent Kokomo 1907 West Sycamore Street Kokomo Indiana 46901 765-456-5433

Children's Hospital At St. Vincent Indianapolis 2001 West 86th Street Indianapolis Indiana 46260 317-338-3245

St. Vincent Indianapolis 2001 West 86th Street Indianapolis Indiana 46260 317-338-2345



### Accreditation and Licensure of Ascension St. Vincent Hospitals

All Ascension St. Vincent hospitals are accredited by The Joint Commission (TJC), an independent, not-forprofit organization that certifies more than 20,500 health care organizations and programs in the United States. Joint Commission accreditation and certification is recognized nationwide as a symbol of quality that reflects an organization's commitment to meeting certain performance standards. TJC accreditation of Ascension St. Vincent hospitals and information about TJC can be seen by visiting http://www.jointcommission.org/.



All Ascension St. Vincent hospitals are also licensed by the Indiana State Department of Health (ISDH). For more information about the ISDH licensure of acute-care hospitals and to search for licensed facilities in Indiana, visit <u>https://secure.in.gov/isdh/reports/QAMIS/hosdir/index.htm</u>.



### Section II

### College of Health Professions General Information

### College Ownership

The Ascension St. Vincent College of Health Professions is an institution of higher learning sponsored by and operates as a d/b/a of Ascension St. Vincent hospital. Under its national accreditation by ABHES (see below), the College exists to award an academic associate degree to who complete the training programs offered in Ascension St. Vincent hospitals. The College itself was established in 2016 when it became national accredited and authorized y Indiana as an institution of higher learning.

### Mission Statement

Our Mission is to make a positive difference in the lives the people we serve, our Ascension St. Vincent ministries and their respective communities by delivering high-quality education and training in allied health professions. We exist to safeguard our patients and the communities we serve by graduating individuals who exhibit caring, compassionate and highly competent patient care. This is accomplished through a commitment of excellence from our faculty and staff, Advisory Board, and our affiliated Ascension St. Vincent institutions. Our paradigms are open to all aspects of education that do not violate the Mission or Core Values of Ascension St. Vincent and our affiliated institutions.

### Vision Statement

Our Vision is to become a national model for enterprise-wide, hospital-based allied health education and training. We envision a system-wide College dedicated to meeting the human resource needs of the affiliating Ascension St. Vincent ministries and their respective communities.

### Facilities / Locations

College programs operate at multiple Ascension St. Vincent hospitals including Indianapolis, Anderson and Kokomo. Likewise, classrooms are located at multiple Ascension St. Vincent hospitals including Indianapolis, Anderson and Kokomo. Individual programs utilize clinical services found within many Ascension St. Vincent ministries or their contracted entities for clinical education and training purposes. All Ascension St. Vincent programs are residential in nature and are not offered online. Additional information on program facilities can be found in individual program sections herein.

#### **College Accreditation**

The Ascension St. Vincent College of Health Professions is institutionally accredited by: Accrediting Bureau of Health Education Schools (ABHES) 7777 Leesburg Pike, Suite 314 N Falls Church, VA 22043 (703) 917-9503 www.ABHES.org



### College Licensure

This institution is authorized by: Indiana Commission for Higher Education / Indiana Board for Proprietary Education 101 West Ohio Street, Suite 300 Indianapolis, IN 46204-4206



HIGHER EDUCATION

### **Programs Offered**

Under the sponsorship of Ascension St. Vincent, the Ascension St. Vincent College of Health Professions currently offers the following health training programs:

- Radiography\* Associate of Applied Science
  - o <u>https://medicaleducation.ascension.org/indiana/st-vincent-radiography-program</u>
- Diagnostic Medical Sonography (DMS) Associate of Applied Science

   https://medicaleducation.ascension.org/indiana/st-vincent-sonography-program
- Cardiac Sonography (Echocardiography) Associate of Applied Science
  - o <u>https://medicaleducation.ascension.org/indiana/st-vincent-cardiac-sonography-program</u>

### **Program Accreditations and Licenses**

Individual programs within the College are accredited by agencies recognized to accredit programs within the respective disciplines. Below are College program accreditations.

The Radiography Program is accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT) 20 N. Wacker Drive Suite 2850 Chicago, IL 60606-3182 (312) 704-5300 http://www.jrcert.org/

The Diagnostic Medical Sonography Program is accredited by:

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) 9355 113th St N, #7709 Seminole, FL 33775 (727) 210-2350 www.caahep.org

The Radiography and DMS/Cardiac Programs are authorized by the following state agencies: Indiana Commission for Higher Education / Indiana Board for Proprietary Education 101 West Ohio Street, Suite 300 Indianapolis, IN 46204-4206

> \*The Radiography Program operates as an approved consortium of Ascension St. Vincent Indianapolis, Ascension St. Vincent Anderson, and Ascension St. Vincent Kokomo hospitals.

The Radiography Program is authorized by the following state agencies: Indiana State Department of Health Medical Radiology Services Program 4th Floor Selig 2 N. Meridian Street Indianapolis, IN 46204 <u>http://www.in.gov/isdh/23279.htm</u>

### **Program Managers**

Mark Adkins, MSEd, RT (R)(QM)A2001 W. 86th Street2Indianapolis, IN 46260InMEAdkins@ascension.orgA(317) 338-3879(	<u>Diagnostic Medical Sonography Program</u> Ashlie Munchel, BS, RT (R), RDMS, RVT 2001 W. 86th Street Indianapolis, IN 46260 <u>Ashlie.Munchel@ascension.org</u> (317) 338-2484	
Cardiac Sonography ProgramAshlie Munchel, BS, RT (R), RDMS, RVT*2001 W. 86th Street22Indianapolis, IN 46260Ashlie.Munchel@ascension.org(317) 338-2484	Brock Monroe, ACS, RCS, RVS, CCT* 2001 West 86th Street Indianapolis, IN 46260 <u>Robert.Monroe@ascension.org</u> (317) 338-8423	

### **Section III**

### Admissions

Ascension St. Vincent and the Ascension St. Vincent College of Health Professions provides equal opportunity to all qualified applicants. All programs are selective in their admissions practices and evaluates applicants based on merit without discrimination on the basis of age, race, religion, creed, color, national origin, marital status, gender, disability, veteran status, sexual orientation, or any other legally protected status. Ascension St. Vincent reserves the right to deny acceptance to any individual based on application procedure requirements, minimum academic requirements, or preferences described herein. Selection into the College is based on selection into a program.

### **Enrollment Status**

The following terms will be used to describe the enrollment status of students.

<u>Applicant</u>: An applicant is an individual who has applied for admission into an Ascension St. Vincent program but has yet to be accepted or rejected.

<u>Conditionally Accepted</u>: An individual who has applied for admission and has been accepted to enroll in an Ascension St. Vincent program but has not met all enrollment contingencies will be considered conditionally accepted. Failure to meet all enrollment contingencies will result in a *withdrawal of acceptance*. In such instance, the conditionally accepted candidate will not have been considered enrolled.

<u>Inactively Enrolled</u>: A student is considered inactively enrolled once a conditionally accepted candidate has met all contingencies for active enrollment, when an actively enrolled student begins an approved Leave of Absence (LOA) or when a previously enrolled student has been granted approval for reinstatement.

<u>Actively Enrolled</u>: A student is considered actively enrolled when he/she is attending and actively engaged in academic activities including classroom attendance, clinical and lab participation. Under such conditions the student will remain actively enrolled unless he/she voluntarily withdraws, is dismissed, is on an approved Leave of Absence, or stops attending College-related academic activities for a period of three (3) business days without notice to program directors of intent to remain actively enrolled. The last date of attendance will be the last day a student had any academic activity including but not limited to classroom attendance, clinical or lab participation.

<u>Withdrawn</u>: Ascension St. Vincent will honor the notice of students wishing to withdraw from any program. The withdrawal notice must be in writing (hand-written, typed or e-mail), dated, and signed (signature or electronically) by the student. Students who withdraw prior to the final exam week of the semester in which they are currently enrolled will receive a "W" grade for each course with no impact on the student's GPA. Withdrawing during or after final exams week will result in earned grades for the courses. The official withdrawal date will be the next business day following the last day a student had any academic activity.

<u>Dismissed</u>: A student is considered dismissed when he/she is involuntarily terminated from an Ascension St. Vincent program. The two forms of dismissal are 1) <u>academic dismissal</u> (see Academic progress Standards policy) and 2) <u>corrective action dismissal</u> (see Corrective Action policy). In either instance, the student will be given a letter of termination from the respective

program director stating the reason for dismissal. A student who is dismissed prior to the final day of the semester will receive an "F" letter grade for each course taken during the semester of dismissal. The official dismissal date will be the date on the termination letter.

<u>Graduated</u>: The student successfully completed all program requirements and achieved the terminal award offered by the program.

### **Application Procedure**

To apply for consideration of admission into any Ascension St. Vincent program, applicants must submit the following:

- 1. Completed and signed application.
- 2. Submission of the non-refundable \$20 application fee. The fee must be in the form of a personal check, money order, or cashier's check. Cash will **NOT** be accepted.
- 3. Submission of official transcripts from all high school, American college, technical, vocational or other post-secondary institutions / schools listed on the specific program application.

Some programs may require additional documents to be submitted. Candidates should refer to additional application information in each program section herein or online on each program's website.

Each program has its own application. Candidates applying for admission to more than one program must submit an application, application fee, and academic transcripts to each individual program.

### **Application Deadlines**

<u>Radiography and Diagnostic Medical Sonography Programs:</u> Applications, application fees, typed essays, and other program required documents must be submitted between <u>November 1</u> and <u>January 31</u>. Final deadline for submission of official college transcripts is <u>the second Tuesday in February</u>. All admission documents must be in the possession of the respective program director by the stipulated deadline. All submitted documents become the permanent possession of the College.

### **Foreign Educated Applicants**

For degree programs, applicants must have completed all the program's general education requirements through regionally-accredited American colleges and universities. No foreign academic work will be considered toward the general education requirements. Foreign transcripts or the equivalent domestic evaluation of foreign transcripts (ECE, for example) are not required.

### Minimum Requirements

Each Ascension St. Vincent program will establish minimum academic requirements for applicants to be considered for admission. Candidates should refer to the individual program section herein or online on each program's website for that program's minimum admission requirements.

### Selection Procedure

Each Ascension St. Vincent program will establish its own selection procedure and timelines. Candidates should refer to the individual program section herein or online on each program's website for that program's selection process.

### **Conditional Acceptance**

Individuals granted conditional acceptance by an Ascension St. Vincent program must meet additional requirements before active enrollment in August is granted. Active enrollment of applicants will be contingent on the following (details will be provided in the applicant's acceptance packet):

- 1. Complete all admission requirements prior to the beginning of the semester of enrollment.
- 2. Complete and returned the Enrollment Agreement.
- 3. Submit the required tuition deposit.
- 4. Submit proof of U.S. citizenship or permanent, legal residency in the U.S.
- 5. Send updated academic transcripts if academic work is in progress at the time of application.
- 6. Meet all Ascension St. Vincent requirements and state regulations regarding immunity.
- 7. Submit proof of being fully COVID-19 vaccinated and receiving an Ascension-approved medical or religious exemption to the COVID-19 vaccination.
- 8. Pass a drug screen.
- 9. Pass criminal background check, sex offender check, professional license/certification review and excluded provider check.
- 10. Submit proof of health insurance coverage.
- 11. Complete CPR of healthcare providers certification.
- 12. Meet additional program-specific requirements if stipulated.

#### **Disability**

Ascension St. Vincent does not discriminate based on disability as determined by the American with Disabilities Act (ADA). Ascension St. Vincent programs will not request disability information from program applicants. Likewise, applicants for admission are advised to not discuss or disclose a disability to program faculty, students, or other Ascension St. Vincent representatives.

### **Disclosure of Criminal History**

All Ascension St. Vincent program applicants will be asked on the application to disclose their criminal history, excluding speeding and minor traffic violations. Applicants must provide details as directed on the application. Failure to disclose a positive criminal history will result in denial of the application or withdrawal of conditional acceptance. Ascension St. Vincent reserves the right to deny acceptance or rescind conditional acceptance to any individual with a positive criminal history based on individual circumstances. Individual Ascension St. Vincent reguirements regarding a positive criminal history.

### Disclosure of Professional License or Certification Suspension or Revocation

All Ascension St. Vincent program applicants will be asked on the application to disclose if they have ever had a professional license or certification suspended or revoked by any certifying agency or governing body. Applicants must provide details of the suspended or revoked professional license or certification as directed in the application. Failure to disclose a suspended or revoked professional license or certification will result in denial of consideration or withdrawal of conditional acceptance. Ascension St. Vincent reserves the right to deny acceptance or rescind conditional acceptance to any individual history of suspended or revoked professional license or certification based on individual circumstances.

### **Section IV**

### **Academic Information**

### **Academic Overview**

The Ascension St. Vincent College operates on a semester calendar. Each semester is 20 weeks in length, except for an 8-week summer semester. During each semester, students will complete academic and clinical courses taught during that semester. The length of each program will be described in the appropriate program section. Students must enroll in all courses taught during the semester; part-time enrollment is not permissible. Students are given course syllabi at the beginning of each semester for each course taught during that semester. Course syllabi detail content taught in the course, course expectations, grading criteria, and a course calendar.

Academic Calendar 2022 – 2023			
<u>Fall 2022</u> August 1 September 5 November 24 & 25 December 16	Fall Semester Begins Labor Day Holiday Thanksgiving Holiday Break End of Fall Semester		
December 19 - January 6	Winter Break		
<u>Spring 2023</u> January 9 January 16 March 13 - 17 April 7 May 26	Spring Semester Begins Martin Luther King Day Holiday Spring Break Good Friday Holiday End of Spring Semester		
May 29 - June 2	Early Summer Break		
<u>Summer 2023</u> June 5 July 4 July 28	Summer Semester Begins Independence Day End of Summer Semester		
July 31 - August 4	Late Summer Break		

\*Second year calendar is presented in each program handbook given to enrolled students on enrollment\*

### Academic Credit

Academic credit is awarded following completion of each program course. The number of credits awarded varies according to the number of scheduled hours for lecture, lab and clinicals. Academic credit is used in the calculation of Grade Point Average (GPA – see below). For this purpose, "clinical" refers to any activity in which the student applies their training in the delivery of care to actual patients and the related activities of a practicing professional in the respective field. "Clinicals" may be referred to as "externships" or "internships" by individual programs.

Academic credit is awarded according to the following:

- Lecture Credit: 15 hours per semester = 1 credit
- Lab Credit: 30 hours per semester = 1 credit
- Clinical Credit: 45 semester hours = 1 credit

### Transfer of Credit

- <u>General Education Credit</u>: The Ascension St. Vincent College does not teach general education coursework therefore all general education credit must be transferred in from outside institutions. Only general education courses relevant to individual program requirements are transferred. Programs will only transfer in general education academic credit from regionally-accredited institutions. The list of approved regional accrediting agencies is found at <u>http://www.chea.org/Directories/regional.asp</u>. The Ascension St. Vincent College will only transfer academic credit, not actual course grades.
- 2. <u>Core Course Credit</u>: Core courses are the field-specific courses required by each program. The Ascension St. Vincent College does not transfer core education credit except for individuals currently enrolled in and seeking transfer from an outside program. The program must be programmatically accredited or the sponsoring institution by be institutionally accredited by an agency sufficient to allow program graduates eligibility to sit for the respective certifying examination. In such cases, the program faculty will review and determine what, if any, core course credit will transfer. Programs will only transfer academic credit, not actual course grades. The Ascension St. Vincent is under no obligation to accept program transfer students.
- 3. <u>Institutional Credit Requirement</u>: Students must complete 25% or more of the program curriculum through the Ascension St. Vincent College. For example, a transfer student must complete at least 20 credit hours through the Ascension St. Vincent College to graduate from a program that requires 80 semester credit hours.

### Prior Learning Credit

Prior Learning Credit refers to credit awarded for relevant academic or work experiences. Credit can be in the form of full course credit or specific course requirements based on prior experiences. Candidates should refer to each individual program for their policy on Prior Learning Credit.

### **Academic Progress Standards**

Ascension St. Vincent is committed to offering enrolled students high quality health education that leads to gainful employment and/or advanced training in the respective health field. Ascension St. Vincent programs have high expectations of enrolled students consistent with competent, entry-level practice. To that end, Ascension St. Vincent has established academic standards of performance to assure student progress. These standards will be communicated to all students and applied consistently and fairly to all students within respective programs.

### Satisfactory Academic Progress

Students are required to maintain satisfactory academic progress to remain enrolled in the Ascension St. Vincent College. Academic progress standards include:

- The student must pass individual assessments as determined by the individual program.
- The student must pass all program courses in accordance to the criteria published in the respective course syllabi.
- The student must successfully complete all courses in a given semester with a minimum grade of "C" or "Pass" before the student can enroll in the following semester <u>unless</u> the student has been given a written notification of an incomplete course with a defined course completion date. In this case the student will be permitted to enroll in the following semester, but the incomplete course(s) must be complete by the specified completion date for the student to remain enrolled in the College.
- The student must take all courses for the semester in the proper course sequence as outlined in each program's curriculum.
- The student must complete all program requirements for graduation within 150% of the normal program length as measured from the initial date of active enrollment.

Individual Ascension St. Vincent programs have discretion for establishing pass/fail thresholds for student assessments and required actions, if any, for failed assessments. Ascension St. Vincent programs will publish specific criteria in each course syllabus in accordance with accreditation standards and will provide enrolled students with a course syllabus at the start of each course.

Ascension St. Vincent programs may choose to have a probation policy. If so, the policy will clearly state conditions on which a student is placed on probation, requirements the student must meet to have probation lifted, the probationary time frame, and results for failing to meet requirements to have probation lifted.

### **Course Grades**

At the conclusion of each course, students will be assigned a course grade as determined by the individual course syllabus. The academic transcript for each student depicts the student's progress through the program curriculum and the final course grades and grade point average (GPA). For all programs, students must earn a grade of "C" or higher in each core program course to remain enrolled in the program and graduate.

Letter Grade	Score Range	<b>GPA Points</b>
A+	100% - 98.0%	4
А	97.99% – 96.0%	4
A-	95.99% – 93.0%	3.7
B+	92.99% – 90.0%	3.3
В	89.99% - 87.0%	3
B-	86.99% – 84.0%	2.7
C+	83.99% – 80.0%	2.3
С	79.99% – 75.0%	2
F	74.99% and lower	0
Pass	NA	NA
Fail	NA	NA
Т	Transfer Course	NA
	Incomplete	NA
W	Withdrawal	NA

Course grades are as follows:

<u>Incomplete:</u> Ascension St. Vincent programs issue incomplete course grades only for certain courses as defined in the respective course syllabus. At the completion of said course, any student who has not met all course objectives and requirements identified in the course syllabus will be issue an incomplete "I" grade. The student will be allowed to enroll in the upcoming semester under a written plan to complete all course requirements by a specified date as determined by the individual program. Completing the course requirements by the specified date will result in the final course grade being determined based on the requirements set forth in the course syllabus. Failure to complete the course requirements by the specified date will result in the student receiving a failing grade for the course, thus resulting in dismissal from the program.

<u>Transferred</u>: Transferred (T) course grades are assigned to courses transferred in from other accredited institutions (see Academic Credit policy). The final course grade must be a letter grade of "C" or higher to be accepted as a transferred course. Transferred course grades do not factor into grade point average calculation (see below).

<u>Withdrawal:</u> Any student who voluntarily withdraws from a Ascension St. Vincent program in writing will be assigned a withdrawal (W) course grade for all courses not completed during the semester of withdrawal. A "W" course grade is not factored into the student's grade point average calculation (see below). The withdrawal notice must be in writing, dated, and signed by the student. Withdrawing during or after final exams week will result in earned grades for the courses.

<u>Pass/Fail:</u> Some courses within specific programs are assigned *Pass or Fail* rather than a letter grade. All required course competencies must be met in order to be assigned a passing grade designation. Failure to complete the course requirements may result in an incomplete being issued with a specified date of completion. Failure to complete the course requirements by the date specified will result in the student receiving a failing grade for the course, thus resulting in dismissal from the program. Pass/Fail courses are not calculated in the student's grade point average.

### Grade Point Average (GPA)

Grade point average is the numerical average of all course grades completed during the semester (term GPA) or entire program tenure (Cumulative GPA) and is calculated as follows:

Sum of all course points earned Sum of all course credit hours

### Academic Dismissal

Program dismissal will occur as a result of the following circumstances.

- 1. Failing to achieve a passing grade of "C" or higher or "Pass" in any core program course as outlined in the respective course syllabus.
- 2. Failing to meet requirements to have probation lifted as defined in the program's respective Probation Policy.
- 3. Failing to meet all graduation requirements pursuant to the program's Graduation Requirements Policy.
- 4. Failing to complete all program requirements within 150% of the normal program length as measured from the initial date of active enrollment.

Students dismissed for academic failure will receive a letter grade of "F" for all courses not completed and passed by the date of dismissal.

### Grievance

A student dismissed for failing to meet academic progress standards has the right to appeal the academic dismissal in accordance to the Grievance and Appeal policy. Should the academic dismissal be overturned by the Grievance Panel, the student's status will become *inactively enrolled* will be permitted to return to *active enrollment* at the beginning of the next semester the same courses are offered. In such instance, the student must enroll in and take all core program courses during the semester of reinstatement even if some courses were or would have been previously passed. The student will not be charged tuition and fees for the semester of re-enrollment but must pay tuition and fees for all subsequent semesters as described in the Tuition and Fees policy. The re-enrolled student is reminded that the program must be completed within 150% of the program length as measured from the initial date of active enrollment.

### Reinstatement

A student dismissed for failing to meet academic progress standards may request reinstatement. The request must be made in writing to the respective program director and must include a rationale why the student is to be reinstated. The student is encouraged to make a compelling argument for reinstatement addressing the specific deficiencies leading to the academic dismissal. The reinstatement request must occur within 30 days following the date of academic dismissal.

If approved, reinstatement will occur at the beginning of the same semester the next academic year. The student must enroll in and take all core program courses during the semester of reinstatement even if some courses were previously passed. Reinstated students are required to pay semester tuition and fees as described in the Tuition and Fees policy. If approved, the student's status will be changed from "Dismissed" to "Inactively Enrolled."

The reinstated student is reminded that the program must be completed within 150% of the program length as measured from the initial date of active enrollment and is thus limited to only one (1) reinstatement.

### **Repeated Courses**

Once a reinstated student returns to active enrollment, repeated course grades will be calculated into the student's cumulative grade point average. Previously earned course grades will remain on the student's academic transcript but will not be calculated into the student's cumulative grade point average.

### Reapplication

Former students may re-apply for admission into the program under admission requirements and procedures applicable to the year in which the student applies. Each student will be evaluated for enrollment based on his/her individual merits against the merits of other applicants. Special consideration will not be given to such applicants. Program faculty reserve the right to deny admission to said candidates regardless of merit if the faculty feel that circumstances leading to academic dismissal have not been sufficiently addressed.

### Academic Integrity

Academic integrity is the commitment to and demonstration of honest and moral behavior in academic and clinical settings and is a commitment to the <u>three</u> fundamental values.

- 1. <u>Honesty:</u> Representing one's academic and or clinical work as true and fairly earned.
- 2. <u>Trust:</u> A firm belief in the truth and moral behavior of someone's actions.
- **3.** <u>Fairness:</u> Actions that are in accordance with rules, regulations and expectations without taking any advantage to misrepresent one's work or performance.

Ascension St. Vincent programs believe that these three values, plus the courage to uphold them even in the face of adversity, are truly foundational to ethical and moral behavior. Ascension St. Vincent strives to communicate and support clear standards of integrity, so students can carry them forward in their personal and professional lives and be proud of meeting the rigorous academic standards.

### **Protected Academic Information**

Protected Academic Information (PAI) refers to any information related to an academic exercise that Ascension St. Vincent has deemed protected and therefore is restricted to student access only under faculty-supervised conditions. PAI includes but is not limited to the following.

- Academic tests, graded or ungraded
- Graded papers, projects and evaluations
- Instructor Notes

### **Misconduct Terms**

<u>Academic misconduct</u> is any action or behavior in an academic or clinical situation that calls into question a student's honesty, trust, or fairness. Examples of academic misconduct include but are not limited to the following.

- 1. <u>*Plaqiarism*</u>: The adoption or reproduction of ideas, words or statements of another person without due acknowledgment.
- 2. <u>*Cheating*</u>: Any attempt to give or obtain assistance in a formal academic exercise not permitted by the instructor, or program.
- 3. *Fabrication*: The falsification of data, information, or citations in any formal academic exercise.
- 4. <u>Academic Theft:</u> Unpermitted taking of Protected Academic Information by any means including but not limited to physically removing the material, taking pictures, transcribing verbally or in writing, digitally copying, or printing the material.
- 5. *Interference/Sabotage:* Acting to prevent others from completing their work or misrepresenting their work.
- 6. <u>Unauthorized Access</u>: Accessing another's private academic information or institutional PAI by any means and in any setting including but not limited to via computer systems, hard copies, faculty offices and classrooms.

### Academic Misconduct Consequences

Violations of academic integrity demean the violator, degrade the learning process, discredit the accomplishments of past and present students, and tarnish the Ascension St. Vincent program reputation. Ascension St. Vincent's students are expected to always demonstrate and uphold these values of academic integrity. To that end, Ascension St. Vincent has zero tolerance for academic misconduct. Any violations of academic integrity will result in immediate dismissal from the Ascension St. Vincent program.

### **Section V**

### **Tuition and Expenses**

### **Tuition and Fees**

		Radiography	Diagnostic Medical Sonography	Cardiac Sonography
	Tuition (paid per semester)	Fall, Year I: \$1400 Spring, Year I: \$1400 Summer, Year I: \$400 Fall, Year II: \$1400 Spring, Year II: \$1400 Total \$6000	Summer, Year I: \$400 Fall, Year I: \$1400 Spring, Year I: \$1400 Summer, Year II: \$400 Fall, Year II: \$1400 Spring, Year II: \$1400 Total \$6400	Summer, Year I: \$400 Fall, Year I: \$1400 Spring, Year I: \$1400 Summer, Year II: \$400 <u>Fall, Year II: \$1400</u> <b>Total \$5000</b>
	Books and Materials	Fall, Year I: \$245 Spring, Year I: \$25 Fall, Year II: \$30 <u>Spring, Year II: \$25</u> <b>Total \$325</b> *	Summer, Year I: \$682 Fall, Year I: \$50 Spring, Year I: \$100 Summer, Year II: \$25 Fall, Year II: \$50 <u>Spring, Year II: \$150</u> <b>Total: \$1057*</b>	Summer, Year I: \$528 Fall, Year I: \$50 Spring, Year I: \$100 Summer, Year II: \$25 <u>Fall, Year II: \$100</u> <b>Total: \$803*</b>
	Facility Fee	Fall, Year I: \$50 <u>Spring, Year II: \$50</u> <b>Total \$100</b> *	<u>Summer, Year I: \$150</u> Total \$150*	<u>Summer, Year I: \$150</u> Total \$150*
	Total	\$6425*	\$7607*	\$5953*

Total fees for each program are broken down according to the table below.

\*Approximate cost; actual cost will be included on the enrollment agreement if accepted.

Additional fees paid to external entities are listed below.

	Radiography	Diagnostic Medical Sonography	Cardiac Sonography
Textbooks and Resources**	\$208	\$50 (USA Exam through Pegasus Lectures)***	\$50 (USA Exam through Pegasus Lectures)***
CPR**	Up to \$100	Up to \$100	Up to \$100
Uniforms**	\$100 - \$150	\$100 - \$150	\$100 - \$150
Certifying Exam(s)***	\$250	SPI (Year 1): \$250 Specialty (Graduation): \$250	SPI (Year 1): \$250 Specialty (Graduation): \$250
State License***	\$60	\$0	\$0
Total	\$593 - \$743	\$750 - \$800	\$750 - \$800

\*\* Estimated cost; subject to vendor charges.

\*\*\* Current cost; subject to agency fee changes.

### Payment Due Dates

Tuition and fees are paid to Ascension St. Vincent per semester by the last business day of the first week of the semester unless a financial hardship payment plan has been requested by the student and approved by the program director. Personal checks or cash will not be accepted.

Failure to pay tuition and fees by the established due dates will result in the student being suspended for up to two weeks or until all required fees are paid. Failure to pay all tuition and feed within the two-week suspension period will result in the student being dismissed from the respective program.

Accepted students will be required to pay an enrollment deposit as determined by the specific program by the date established in the Enrollment Agreement to reserve their place in the program. This deposit will be deducted from the remaining tuition balance for the first semester. The deposit is fully refundable if the student chooses to decline their acceptance and a written request is made to the respective program director within three (3) business days from the date the Enrollment Agreement is signed by the student. After three (3) business days, the deposit is not refunded.

### <u>Refunds</u>

Tuition (excluding textbook, materials and other fees) refunds are made for voluntary student withdrawal from the program. Upon the student's written request, a refund will be according to the refund schedule below (allowing 4-6 weeks for processing). The semester refund schedule is as follows:

- 1. With the exception of the enrollment deposit, 100% of the semester tuition is refunded if the withdrawal is before the first day of class of the semester.
- 2. 50% of the semester tuition is refunded if the withdrawal is by the last business day of the second week of the semester.
- 3. No refund is made if the withdrawal is after the second week of the semester.

To be eligible for a refund, the student must meet the following conditions and follow the procedure below.

- 1. The withdrawal notice must be in writing to the student's respective Program Director. The withdrawal notice must be dated and signed by the student.
- 2. The refund is determined based on the date of withdrawal, not the date of last attendance. The withdrawal date cannot precede the date of last attendance.
  - a. The withdrawal date is the date indicated on the student's withdrawal notice.
  - b. The last day of attendance will be the last day the student had any on-site, academicallyrelated activity. This includes attending class, attending clinicals / externships, completing written or practical examinations or participating in any program-sanctioned activity.
- 3. Only tuition is refunded. Ascension St. Vincent will retain other fees paid.

### **Financial Aid**

Ascension St. Vincent does not participate in Title IV federal student aid (FASFA) programs and, as a result, students may not be able to have their existing student loans deferred. Students should contact the financial aid of the college/ institution through which the loan was processed to discuss their options.

Some Ascension St. Vincent programs are approved by the Indiana Department of Workforce Development "WorkOne" for tuition and fee assistance. Eligible enrolled students may obtain financial assistance to cover College fees through this provision, provided state funds are available. Programs can be searched by visiting <u>https://webapps.dwd.in.gov/INTraining/</u>. Interested candidates should contact the Program Director for more information.

While Ascension St. Vincent will work with any third-party payer, it is the student's responsibility to secure adequate funding sources.

### **Section VI**

### **Student Services**

Ascension St. Vincent's students are not entitled to the same benefits provided to associates of Ascension St. Vincent since students are not employed. However, enrolled students do receive services and have access to resources as a result of their enrollment in the program. Below is a summary of student services.

### **Counseling Services**

Ascension St. Vincent program faculty offers <u>academic counseling</u> to all enrolled students. Students will be counseled regularly regarding their academic and clinical progress. While faculty members are available for individual academic assistance, Ascension St. Vincent does not offer formal tutoring services.

Enrolled students are also entitled to pastoral counseling for matters of personal or religious nature. Pastoral counseling is a private matter between the student and clinical pastoral services and is kept entirely confidential.

### **Health Services**

College students are eligible to receive the following health services from Ascension St. Vincent.

- 1. <u>Pre-enrollment health assessment</u> is through Ascension St. Vincent Office of Associate Health (OAH). Pre-enrollment services include drug screening and immunization screening to assure compliance with hospital and regulatory requirements.
- 2. <u>Annual surveillance</u> includes but may not limited to annual TB testing, mandatory flu vaccinations, and other annual health services offered to hospital associates through OAH.
- 3. <u>Training-related injury</u>: Initial assessment and care is provided through the respective hospital OAH. Approved out-of-pocket expenses are covered by an accident insurance policy established by Ascension St. Vincent.
- 4. <u>Training-related exposure to communicable disease</u>: Initial assessment and care is provided through the respective hospital office of associate health. Follow-up care is provided by the student's healthcare provider. Any accident that results in the exposure to HIV and hepatitis which then results in a positive HIV or hepatitis test is covered under the accident insurance provided by the college. Any other infectious disease exposure is not covered.

Students are required to carry their own personal health insurance. Ascension St. Vincent will not be liable for any general illness that occurs to a student as a result of clinical training.

### Malpractice and General Liability Coverage

Ascension St. Vincent program students are covered under the general liability and medical malpractice coverage of Ascension St. Vincent only while acting in the authorized capacity and scope of students assigned to clinical sites within Ascension St. Vincent and only while acting in accordance to all established program and clinical site policies and procedures.

### Career / Employment Placement

While Ascension St. Vincent does not guarantee employment upon graduation, the program faculty assists students in finding employment opportunities relative to their training field. In addition to writing recommendation letters, faculty also post position openings, and offer resume' and interview strategies.

### Library Services

Ascension St. Vincent has a robust online digital library with access to many digital resources and research databases. Additionally, Ascension St. Vincent in Indianapolis has an on-site medical library with numerous periodicals, books, computers and quiet spaces. Library services are supported by a full-time medical librarian. Radiography Program students have full access to online library resources and to the on-site medical library during posted hours of operation.

#### **Disability Services**

The American Disabilities Act (ADA) defines "disability" as a person who has a physical or mental impairment that substantially limits one or more major life activity or who have a record of such impairment, even if they do not currently have a disability (<u>http://adata.org/</u>).

Ascension St. Vincent programs do not request disability information from program candidates. Likewise, candidates are advised to not discuss or disclose a disability to program faculty, students or other representatives. Ascension St. Vincent does not discriminate based on disability in any of its programs, services or activities and will not deny any otherwise qualified student with a disability the opportunity to participate in, or benefit from, any aid, benefit or service that Ascension St. Vincent provides. Ascension St. Vincent strives to ensure that all disabled students have full access to the benefits of Ascension St. Vincent and will engage in a good-faith interactive process with all disabled students to attempt to identify reasonable accommodations. Reasonable accommodations do not include measures which fundamentally alter the academic programs, which place an undue financial burden on Ascension St. Vincent, or which may endanger the student or others at Ascension St. Vincent. Additional information regarding requesting accommodations will be provided to enrolled students.

All Ascension St. Vincent facilities comply with the ADA regarding facility accessibility.

### <u>Language</u>

All College programs are offered only in English. Language assistance is not available.

### **Section VII**

Safety

### **COVID-19 Contingency Plan**

Coronavirus Disease ("COVID-19") pandemic declared by the World Health Organization has caused significant disruption to business, services, and – most importantly – the health of millions of Americans. Ascension St. Vincent leadership is focused on the health and safety of those we serve and those that serve alongside us. Likewise, the Ascension St. Vincent programs are deeply committed to the health and safety of the next generation of allied health professionals without compromising the educational mission of Ascension St. Vincent or its respected programs.

All programs all currently operating as normal. Current students are attending classes in-person and performing clinicals, with proper masking, social-distancing and screening. All Ascension St. Vincent programs follows Ascension St. Vincent policies and practices with respect to student screening, health-related absences, and return to on-site participation.

The Ascension St. Vincent may need to suspend on-site program operations should it be deemed necessary. Should that occur, online education of didactic program content may or may not occur depending on the specific program and accreditation limitations. Given the highly fluid nature of the COVID-19 pandemic, suspensions of on-site operations occur in 2-week increments. This allows Ascension St. Vincent leadership to continually monitor the situation and make timely decisions to safeguard the health and safety of the next generation of allied health professionals without compromising the educational missions of Ascension St. Vincent programs.

Questions regarding COVID-19 should be directed to any of the following individuals.

Mark Adkins, Dean of Accreditation and Compliance / Radiography Program Director

• MEAdkins@ascension.org

Ashlie Munchel, Diagnostic Medical Sonography and Cardiac Sonography Program Director

• Ashlie.Munchel@ascension.org

Additional Resources

- Center for Disease Control: https://www.cdc.gov/coronavirus/2019-ncov/index.html
- Indiana State Department of Health: https://www.coronavirus.in.gov/2399.htm
- Indiana Commission for Higher Education: https://www.in.gov/che/5033.htm
- Ascension Health: https://healthcare.ascension.org/COVID-19

### **Campus Safety Overview**

Ascension St. Vincent is committed to ensuring the safety and well-being of patients, visitors, associates, physicians, and students while on hospital premises. Security Services of Ascension St. Vincent hospitals oversees personnel safety. To provide this protection, systematic procedures have been developed for the detection, reporting and controlling of all security-related problems which might occur during any hours of hospital operation. Below is a summary of security measures performed.

- Security officers conduct security rounds on a scheduled basis to check all areas of the Hospital and campus grounds for any suspicious activities or individuals.
- Hospitals are locked down overnight. During lock-down hours visitors/patients are directed to specific doors to enter buildings.
- Security escorts associates, patients, visitors and students to/from their vehicles during evening hours upon request.
- Closed-circuit camera surveillance is used to monitor areas of hospital premises.
- Panic buttons are in certain areas in on hospital premises to rapidly contact security officers.

### Weapons / Firearms Policy

The State of Indiana provides that the holder of an Indiana Handgun Permit may carry a handgun on his/her person or in a vehicle; however, all persons are strictly prohibited from bringing any firearm, knife or any other type of device that may be considered a weapon onto Hospital property without the written consent of the Manager of Security Services. Pursuant to hospital policy, a weapon is defined as any article which may readily be used to inflict injury on humans.

### **Environmental Risks**

Healthcare professions involves occupational risk. As such, clinical education involves training in a potentially hazardous environment. While all reasonable efforts are taken to assure student safety including adherence to state and local laws and following institutional policies and procedures, students should be aware of these environmental risks.

- 1. Exposure to infectious diseases:
  - Students will be exposed to patients with known and unknown infectious diseases, will handle and dispose of body secretions, blood, stool, etc., and will be exposed to infectious waste and blood borne pathogens. Students are taught proper infection control practices including Standards Precautions and the use of personal protective equipment (PPE) to minimize risk to self and others.
- 2. Exposure to workplace violence:
  - While these situations rarely occur, contact with combative or aggressive patients, family or visitors may happen. Students are taught de-escalation techniques and how to call for assistance when necessary.
- 3. Exposure to sharp instruments:
  - Students may be exposed to needles, scalpels, and other sharp objects which may or may
    not be contaminated with infectious waste and blood borne pathogens. Students are
    taught to properly handle and dispose of sharp objects to minimize the chance of injury to
    self and others.
- 4. Exposure to potentially harmful radiation:
  - Radiography students will have frequent contact with radiation producing devices. Safety procedures and monitoring are in place to assure student's exposure to radiation is kept to a minimum.
- 5. Exposure to powerful magnetic fields:
  - MRI functions with powerful magnets. As a result, great care is taken to prevent objects and medical implants that can be affected by magnetic fields from being brought into the MRI area. Radiography program students are carefully screened and trained on MRI safety before being allowed into the MRI area.
- 6. Ergonomic stressors:
  - Students may encounter physical demands of pushing heavy carts, stretchers and other objects. Additionally, sonography program students will repetitively move their hand and wrist and abducted arm holding a transducer during the scanning process. Students are taught proper body mechanics and practices to minimize personal injury.

# Tobacco Free Workplace

All Ascension St. Vincent facilities including the College of Health Professions are tobacco-free. The use of tobacco products on any Ascension St. Vincent or clinical affiliate premises is strictly prohibited.

**Section VIII** 

**Radiography Program** 

## **Program Overview**

The Ascension St. Vincent Radiography Program is a 22-month, full-time program. Individuals interested in the program must submit an application to be considered for acceptance into the program. If selected, classes begin in August, with graduation occurring 22 months later in May. Since the program has limited student capacity, selection into the program is competitive. Not every applicant who applies to the program will be selected. To learn more about the selection process, see "Admissions" in this section.

The program's curriculum consists of both intensive classroom education and hands-on clinical training. Enrolled students are engaged in clinical or classroom activities on-site five days per week. All classroom education and clinical training is conducted within the Ascension St. Vincent system.

Upon graduation from the program, graduates are eligible to take the American Registry of Radiologic Technologists (<u>www.arrt.org</u>) certifying examination. Once an applicant successfully passes the ARRT examination, he/she can apply to the Indiana State Department of Health for a Radiologic Technologist general license, which is required to work as a radiographer in Indiana (<u>https://secure.in.gov/isdh/23279.htm</u>).

The Radiography Program exists as a consortium jointly owned and operated by Ascension St. Vincent Indianapolis, Ascension St. Vincent Kokomo and Ascension St. Vincent Anderson hospitals.



The Radiography Program, under the national accreditation of the Ascension St. Vincent College of Health Professions, itself a d/b/a of Ascension St. Vincent hospitals, awards the academic associate of applied science degree to program graduates. The Radiography Program is fully accredited by the Joint Review Committee on Education in Radiological Sciences. The program's accreditation can be verified by visiting <a href="http://www.jrcert.org/find-a-program/">http://www.jrcert.org/find-a-program/</a>.

The Radiography Program offers a residential curriculum that consists of both intensive classroom education and hands-on clinical training. Enrolled students are engaged in clinical or classroom activities on-site five days per week. All classroom education and clinical training is conducted within the Ascension St. Vincent system.

#### Job Overview

Radiography is one of several fields of medicine involving diagnostic imaging examinations that are interpreted by a radiologist or other physician. These fields collectively are referred to as medical imaging. Radiographers (or Radiologic Technologists) are educated in anatomy, patient positioning, examination techniques, equipment protocols, radiation safety, radiation protection and basic patient care. Radiographers work in a variety of areas of Medical Imaging including general radiography, fluoroscopy, surgical radiography, trauma radiography, and pediatric radiography. With additional training and education, radiographers also perform computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, nuclear medicine, positron emission tomography (PET), mammography, radiation oncology, and angiography / interventional radiology. Radiographers with advanced degrees

may also work in hospital management, education, or sales / marketing. Radiographers work in a variety of settings, including hospitals, clinics, physician offices, and mobile units. To learn more about radiography and related fields in medical imaging, visit <u>http://www.asrt.org/main/careers/careers-in-radiologic-technology</u>.

During the performance of radiographic procedures, radiographers must communicate with and provide care to patients of all ages and in all physical conditions. Radiographers manipulate radiographic and patient care equipment to accurately demonstrate anatomical structures on medical images and to provide quality care. Radiographers work frequently with computer systems to enter patient information and produce digital radiographic images. Radiographers also prepare and administer contrast media and other medications within the scope of practice and applicable state and federal regulations. Radiographers exercise safety practices to minimize radiation exposure to patients, self and others.





Radiographers must be able to take direction from physicians and management and yet operate independently within the scope of practice and state and federal regulations. Radiographers use critical thinking in adapting radiographic examinations to unique circumstances and in assessing medical images for appropriate image quality and corrective actions, if needed. Radiographers must be emotionally stable to perform radiographic examinations on patients under difficult circumstances.

# **Essential Skills and Abilities**

To competently practice radiography, radiographers must possess the following skills and abilities:

- 1. Physical/Motor Skills
  - Stand and walk for extended periods of the time
  - Perform physically strenuous tasks including raising patients in bed, maneuvering patients to and from tables/stretchers and carrying or maneuvering equipment
  - Rise from a seated position without assistance
  - Twist and bend at the waist
  - Extend the hands and arms in any direction
  - Hold, grasp and turn objects with the hands
  - Reach up to six feet off the floor
- 2. Sensory Abilities
  - Correctable near vision to 20 / 40 in at least one eye
  - Correctable far vision to 20 / 40 in at least one eye
  - Depth perception
  - Distinguish colors
  - Hear audible speech (e.g. person-to-person communication) at 10 feet
  - Hear speech when lips are not visible (e.g. wearing a surgical mask)
  - Hear auditory alarms (e.g. patient monitors, fire alarms)
  - Hear speech over a telephone
  - Detect odors such as smoke, alcohol, noxious gasses
- 3. Communication Abilities
  - Read documents in English
  - Write legibly in English
  - Speak fluently in English
  - Understand speech in English
  - Adapt verbal communication to patient/visitor limitations (e.g. hearing loss, pediatrics, diminished mental capacity)
- 4. Emotional and Behavior Skills
  - Willingness to take directions
  - Be self-directed and assertive
  - Provide emotional support to others in distress
  - Adapt to a changing environment
  - Monitor own emotional state
  - Manage frustration appropriately
  - Accept responsibility for own errors or shortcomings
  - Express emotions in a socially-acceptable manner
  - Respect interpersonal boundaries
  - Manage interpersonal and organizational conflicts in a respectful and professional manner



St. Vincent Anderson Radiography Students

- 5. Intellectual Abilities
  - Recall information with reasonable accuracy
  - Recognize cause and effect relationships
  - Anticipate/plan ahead for activities or situations
  - Perform tasks in a logical and efficient sequence
  - Prioritize competing tasks
  - Problem solve when the solution is not self-evident
  - Use visual/spatial processing in evaluating radiographic images
  - Demonstrate attention to detail



St. Vincent Anderson Radiography Students

• Evaluate own performance to determine corrective actions when appropriate

Ascension St. Vincent Radiography Program does not discriminate on the basis of disability as determined by the American with Disabilities Act (ADA).

Physical/motor skills, sensory abilities, and communication skills are not assessed during the selection phase of the admissions process. Emotional/behavioral skills and intellectual abilities are assessed during the selection phase of the admissions process as they relate to a candidate's academic record, ability to compose an essay, and ability to communicate effectively in English during a personal interview.

# **Facilities**

All radiography education occurs within the Ascension St. Vincent network. The Radiography Program has dedicated classrooms at Ascension St. Vincent Indianapolis, Ascension St. Vincent Anderson, and Ascension St. Vincent Kokomo hospitals. All students have classes at their clinical education site with their respective clinical coordinator.

Clinical education occurs at hospitals throughout Ascension St. Vincent. All Ascension St. Vincent hospitals have a variety of medical imaging equipment that students will use under supervision for performing radiographic procedures on actual patients, practicing radiographic positioning concepts (without exposure) and performing "laboratory" assignments to better understand theoretical concepts and imaging principles. The program does not have an energized lab. More information is found in this section under "Clinical Externships."

#### Program History

Ascension St. Vincent Kokomo Hospital in Kokomo, IN began a two-year training program in radiography in 1966. While the Ascension St. Vincent Kokomo Hospital School of Radiologic Technology quickly became an important fixture at Ascension St. Vincent Kokomo Hospital and the Kokomo community, it was not well-known outside of Kokomo and thus primarily served the Kokomo and surrounding communities. The program continued in this fashion until 2002, when the School of Radiologic Technology was on the verge of being shut down due to leadership turnover. During this same time, hospitals around the country were dealing with tremendous demand for qualified radiographers. The decision was made to conduct a national search for a tenured program director and expand the Ascension St. Vincent Kokomo Hospital School of Radiologic Technology to the other health ministries in Ascension St. Vincent.

That expansion began in 2003 when Mark Adkins was recruited to lead the development and expansion of the program. By 2005, the program had expanded to smaller, rural hospitals in Ascension St. Vincent. Since 2003, the Radiography Program has enrolled over 100 students, many of whom have gone on to specialize in sonography, vascular imaging, mammography, and many other areas of medical imaging. The Ascension St. Vincent Radiography Program is now known throughout the region as a top-class program that produces highly competent, versatile and safe radiographers.

## **Mission Statement**

Our Mission is to make a positive difference in the lives and health delivery status of our students, the people we serve, and the community. This is accomplished through a commitment of excellence by our faculty and staff, Advisory Board, and the sponsoring institutions in the delivery of quality training and education opportunities in radiological sciences. We will display compassion and dignity to all. Our paradigms will be open to all aspects of education that do not violate the Mission or Core Values of our sponsoring and affiliated institutions.

## **Admissions**

Ascension St. Vincent Radiography Program provides equal opportunity to all applicants. The Program is selective in its admissions practices and evaluates applicants based on merit without discrimination on the basis of age, race, religion, creed, color, national origin, marital status, gender, disability, veteran status, sexual orientation, or any other legally protected status. The program selects one class annually based on requirements and preference categories listed herein.

## Application Procedure

In addition to the admission requirements described herein Section III, Radiography Program applicants must also attend a mandatory pre-admission conference or watch a mandatory pre-admission video during the year of application. Dates, locations and times or a link to an online video can be found on the radiography program's website at <a href="https://medicaleducation.ascension.org/indiana/st-vincent-radiography-program">https://medicaleducation.ascension.org/indiana/st-vincent-radiography-program</a>. All application documents must be sent directly to the Program Director as indicated on the application.

## **Admission Requirements**

To be considered for enrollment in the program, the applicant must meet the following requirements:

- 1. Be 18 years of age by August 1 of the year applying for enrollment.
- 2. Be a citizen of the United States or permanent "green card" legal resident.
- 3. Have a minimum college GPA of 2.50 (4.00 scale) on **all** college academic work.
- 4. Completion of at least 6 credit hours by August 1\* of the enrollment year in the following general education areas:
  - a. Mathematics (minimum 3 credits). Courses automatically accepted include:
    - Applied Mathematics Geometry
    - Algebra Statistics
    - Calculus Trigonometry
  - b. Communication (minimum <u>3</u> credits). Courses must be English-based. Courses automatically accepted include:
    - Communication (Speech, Oral or Interpersonal)
    - Debate
    - Rhetoric
    - Writing/Composition
- 5. Completion of at least 9 credit hours by August 1\* of the enrollment year any of the following general education areas:
  - a. Information Systems. Courses automatically accepted include:
    - Computer Data Management
    - Computer Hardware
    - Computer Language/Programming
    - Computer Networking
    - Computer Software/Applications
  - b. Social / Behavioral Sciences. Courses automatically accepted include:
    - Anthropology
    - Civics
    - Criminology
    - Developmental studies
      Social Work
    - Economics
    - Education
    - Gender studies

- International relations
- Psychology
- Public Administration/Public Policy

Geology

Political Science

General Science

- c. Natural / Physical Sciences. Courses automatically accepted include:
  - Astronomy
  - Biology
  - Chemistry Earth Sciences
- Human Anatomy and/or Physiology Physics
- 6. The above coursework must be from regionally-accredited institutions.
- 7. The above coursework must be 100-level or higher courses.
- 8. All of the above courses must be completed with a letter grade of "C" or better.

- - Sociology

9. All the above courses must be completed with a letter grade of "C" or higher. In cases where a letter grade is not assigned, the program will only accept any course graded as "P", "S", or other such institutional designation as evidence the course was successfully completed as passing.

#### Pre-Admission Conference/Video

Applicants are required to view a pre-admission video or attend a live pre-admission conference to be considered for admission. If live, in-person conferences are offered, the program website <u>https://medicaleducation.ascension.org/indiana/st-vincent-radiography-program/admissions-process</u> will be updated with dates, times and locations. If a pre-admission video is offered, a link to the video will be provided below. Following completion of this requirement, the applicant will be required to submit documentation of participation. More information about this documentation will be provided at the live conference or in the video. This documentation must be submitted by January 31st. Remember, this activity is **MANDATORY** to be considered for admission to the program.

#### Preferences

All candidates who meet minimal requirements are encouraged to apply to the program. Because the selection processes is competitive, not all applicants who meet minimal admission requirements will be selected into the program. All qualified candidates will be evaluated for consideration based on merit utilizing the program's established screening process. Preference will be given to candidates who, at the time of application, have earned an academic degree in any discipline from a regionally-accredited institution.

## **Clinical Observation\***

Although not required for consideration of admission, the program faculty **strongly recommends** that candidates complete an onsite observation in **general radiography** of a medical imaging department. Applicants are advised to allow sufficient observation time in general radiography to familiarize themselves with the role of radiographers in a health care setting. Observations may or may not be completed at a hospital affiliated with the Radiography Program.

\*Clinical observations may not occur depending on the status of the COVID-19 outbreak.

#### Bankruptcy Appeal

For a variety of reasons, there are some individuals whose overall college GPA is adversely affected by a period of poor academic performance, such that their overall GPA is not an accurate indication of their true academic abilities. Many of these same students have subsequently demonstrated the ability to achieve academic success. The bankruptcy policy allows individuals to exclude an earlier portion of their academic record while still receiving credit for having passed prerequisite courses so that the GPA considered by the program faculty more accurately reflects the student's true academic abilities. The policy does not allow individuals to pick and choose poor classes or semesters, but instead allows an individual to convey, "that was me then, but this is what I am capable of now." If you feel that this policy would benefit you, we encourage you to submit your appeal.

Applicants may request in writing to the program director that college grades prior to a specified date not be factored into the calculation of an overall college GPA and therefore not be considered as part of the selection criteria provided the following criteria are met.

- The applicant must make the request in writing and include the college(s) attended and dates of attendance requesting to be bankrupted.
- The bankruptcy request must be submitted by February 10<sup>th</sup>. The request can accompany the application or be emailed to the Mark Adkins, Program Director, by <u>clicking here</u>.
- The applicant must include a rationale why the original GPA should be bankrupted and what the applicant did to improve his/her academic performance since the bankruptcy date.
- The applicant must have completed and maintained at least a 2.50 / 4.00 cumulative GPA on at least 12 credit hours of 100 level courses following the date of requested bankruptcy.

If approved, **all** academic grades prior to the bankruptcy date will not be considered toward the calculated GPA. However, all courses passed with a letter grade of "C" or higher regardless of bankruptcy will still be counted toward meeting the program's general education requirements.

The Radiography Program faculty will review each bankruptcy request and render a decision based on the merits of each request individually. Official transcripts of all academic work must still be submitted as indicated.

# **Foreign Educated Applicants**

Applicants educated in foreign countries are welcomed to apply to the program. However, candidates must have completed all the program's general education requirements through regionally-accredited American colleges and universities. No foreign academic work will be considered toward the general education requirements. Foreign transcripts or the equivalent domestic evaluation of foreign transcripts (ECE, for example) are not required.

## **Selection Process**

All candidates who meet minimal requirements are encouraged to apply to the program. Because the selection process is competitive, not all applicants who meet minimal admission requirements will be selected into the program. All qualified candidates are evaluated for consideration based on merit utilizing the program's established screening process.

Applications are initially reviewed for verification of minimal requirements. Applications who meet minimal requirements are scored using an established and approved score sheet. Of the applicants who meet minimal requirements and complete the mandatory pre-admission activity, some applicants will be invited to attend a personal interview with program faculty and representatives from each primary clinical education site. Interview candidates will be notified by email of their interview date, time and location (if an in-person interview occurs) or virtual meeting information. Following each candidate's interview, the interview team will score each interview. Final selection of applicants into the program will be based on this score. An alternate list is formed with candidates rank-ordered based on their overall interview score.

## **Primary Clinical Site Selection**

To maintain recruitment and employment bases for the individual Ascension St. Vincent institutions, applicants must indicate their first choice of clinical site -- Indianapolis, Anderson or Kokomo -- for placement. This does not mean, however, that candidates are considered for only their first-choice site. If accepted for placement at a clinical site other than their first choice, the candidate is permitted to decline the admissions offer and request to be placed on the alternate list for another clinical site. However, once

a candidate accepts an admission offer at a specific clinical site, that acceptance is binding. In other words, the accepted candidate will not be offered a position at another clinical site should a student position become open. Finally, while a majority of our students are accepted for placement at the first-choice site, the program does not guarantee selection into a first-choice primary clinical site

#### **Disclosure of Criminal History**

Radiography Program applicants are required to disclose their criminal history, excluding speeding and minor traffic violations. Applicants who disclose their criminal history must provide details as directed on the application. Failure to disclose a criminal action or proceedings will result in rejection of a candidate's application, revocation of conditional acceptance, or dismissal from the program if actively enrolled.

A positive criminal history will require the candidate to submit to the ARRT a pre-eligibility application at their own expense. The applicant will be required to forward the decision of the ARRT to the Program Director upon receipt. The decision of the ARRT will be considered when selecting candidates into the program. In such cases when the ARRT decision is pending when final selections are made, full acceptance will be contingent upon receiving the ARRT decision by an established deadline. Denial of pre-eligibility by the ARRT will result in immediate revocation of acceptance. While approval of pre-eligibility by the ARRT is required to gain full acceptance into the program, the program reserves the right to deny full acceptance to any individual with a positive criminal history based on individual circumstances.

## Disclosure of Professional License or Certification Suspension or Revocation

All program applicants are required to disclose if they have ever had a professional license or certification suspended or revoked by any certifying agency or governing body. Applicants must provide details of the suspended or revoked professional license or certification as directed in the application. Failure to disclose a suspended or revoked professional license or certification will result in denial of consideration or withdrawal of conditional acceptance. Ascension St. Vincent reserves the right to deny acceptance or rescind conditional acceptance to any individual history of suspended or revoked professional license or certification based on individual circumstances.

# **Satisfactory Academic Progress**

Students are required to maintain satisfactory academic progress to remain enrolled in the Radiography Program. This includes meeting the published grading criteria, attendance standards, or professional standards. On occasion, it becomes necessary to delay completion of the program due to completion of program requirements, medical leave, or other situations. A delay in academic progression, however, cannot exceed 150% of the normal program length. The Radiography Program adheres to the Academic Progress Standards in Section IV and follows the College grading unless otherwise noted in the course syllabus.

Additionally, the Radiography Program follows a mastery-based approach to academic performance expectations. The program requires a minimum score to be achieved (80.0% for most written lecture tests, 85.0% for clinical competency evaluation) before the student can be considered to have "mastered" the material. Failure to achieve this minimum score will result in the student being required to repeat the exam/assessment for a capped maximum score. Failure to achieve the minimum passing score after the third attempt will result in remediation of the material and either probation or dismissal from the program depending on the situation. Further information regarding program academic progress expectations are included the Student Handbook made available to the student on the first day of class or may be obtained by contacting the Radiography Program Director.

# **Prior Learning Credit**

The Radiography Program does not offer Prior Learning Credit.

# Radiography Program Curriculum - Associate of Applied Science Degree

General Education (Transferred in)							
Course Code	Course Area	Lecture Hours	Credits	Course Code	Course Area	Lecture Hours	Credits
NA	Mathematics	45	3	NA	Information Systems and/or	125	0
NA	Communication	45	3	NA	Biological / Physical Sciences	135	9

Fall Semester I						
Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours	Credits	
RAD 111	Introduction to Radiography	21	0	0	1.0	
RAD 112	Medical Terminology I	8	0	0	0.5	
RAD 113	Radiographic Anatomy and Physiology I	30	0	0	2.0	
RAD 114	Radiographic Positioning I	25	31	0	2.5	
RAD 115	Patient Care	13	4	0	1.0	
RAD 119	Clinical Education I	0	0	417	9.0	
	Total	97	35	417	16.0	
	Spring Se	mester II	•			
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits	
RAD 121	Medical Terminology II	8	0	0	0.5	
RAD 122	Radiographic Anatomy and Physiology II	54	0	0	3.5	
RAD 123	Radiographic Positioning II	36	23	0	3.0	
RAD 129	Clinical Education II	0	0	448	9.5	
	Total	98	23	448	16.5	
Summer Semester III						
Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours	Credits	
RAD 131	Medical Ethics and Law	8	0	0	0.5	
RAD 132	Fundamentals of Computed Tomography	8	0	0	0.5	
RAD 139	Clinical Education III	0	0	240	5.0	
	Total	12	0	240	6.0	
	Fall Sem	ester IV	•			
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits	
RAD 211	Radiographic Principles I	53	6	0	3.5	
RAD 212	Fundamentals of Radiation Production	24	0	0	1.5	
RAD 213	Radiographic Pathology	12	0	0	0.5	
RAD 219	Clinical Education IV	0	0	280	6.0	
	Total	93	6	280	11.5	
	Spring Se	mester V				
Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours	Credits	
RAD 221	Radiographic Principles II	38	0	0	2.5	
RAD 222	Radiation Protection & Radiobiology	34	0	0	2.0	
RAD 223	Radiographic Image Analysis	17	0	0	1.0	
RAD 224	Registry Review	4	48	0	1.5	
RAD 229      Clinical Education V      0      0      432						
Total 93 48 432						
General Education Credits Required						
	Program Credits Req	uired			66.5	
Total Credits Required						

#### Radiography Program Course Descriptions

#### SEMESTER I: FALL

#### Introduction to Radiography - RAD 111 (21 lecture hours, 1.0 credit)

This course is an introduction to the Radiography Program, the field of radiology and the organization. Topics for discussion will include program policies and procedures; general radiology history; professional organizations; accreditation, licensure, and professional pathways. Fundamentals of radiation protection for the patient, general public, and radiographer/student with emphasis on minimizing radiation exposure and methods to accomplish ALARA concepts will be discussed. Fundamentals of radiobiology including somatic and genetic effects and units of radiation measurement will be discussed. Basic presentation of exposure factors and their application to the clinical setting is included. More complete courses on radiation protection and exposure factors will be presented in the senior year. Prerequisites: admission to the radiography program. Parallel: RAD 112, 113, 114, 115, 119. Open only to radiography students.

#### Medical Terminology I – RAD 112 (8 lecture hours, 0.5 credit)

This course is an introduction to the origin and derivation of medical terms and abbreviations, as well as their meaning. An exploration of prefixes, suffixes and root word combinations to create specific medical terms is included. Medical terminology specific to the musculoskeletal and respiratory system will be included. This course is largely self-guided with instructor direction. Prerequisites: admission to the radiography program. Parallel: RAD 111, 113, 114, 115, 119. Open only to radiography students.

#### Radiographic Anatomy and Physiology I - RAD 113 (30 lecture hours, 2.0 credits)

This course is designed to study the human structure and its functions. Specific emphasis will be placed on structure and function of cells, tissues, and systems to include respiratory, general abdomen, basic digestive anatomy, and the appendicular skeleton including the upper extremities, shoulder, lower extremities, and bony pelvis. Prerequisites: admission to the radiography program. Parallel: RAD 111, 112, 114, 115, 119. Open only to radiography students.

#### Radiographic Positioning I - RAD 114 (25 lecture hours, 31 lab hours, 2.5 credits)

The principles of this class are to obtain basic knowledge, skills, and application of alignment of body parts, cassettes, and x-ray tube in each elementary radiographic examination correlated with patient care procedures. Emphasis will be placed on positioning terms, projections of the chest, abdomen, upper extremities, shoulder, lower extremities, and pelvis as well as corresponding radiographic analysis. A laboratory component is included. Prerequisites: admission to the radiography program. Parallel: RAD 111, 112, 113, 115, 119. Open only to radiography students.

#### Patient Care - RAD 115 (13 lecture, 4 lab hours, 1.0 credits)

This course provides the student with the basic concepts of patient care including consideration for the physical and psychological needs of the patient. Some topics to be covered include: Safety and transport of a patient, infection control, handling acute situations, pharmacology, emergency recognition and response, and vital signs. Prerequisites: admission to the radiography program. Parallel: RAD 111, 112, 113, 114, 119. Open only to radiography students.

#### Clinical Education I - RAD 119 (417 clinical hours, 9.0 credits)

Clinical Education I is the first in a series of five courses that provide the student with the necessary clinical education needed in the actual practice of radiography. This course takes place in the clinical area. The student is exposed to actual patient contact. The student will begin to rotate through clinical areas of general radiology and will begin to master the basic skills necessary to function in a radiography room. Student rotations through support areas of radiology including transport and clerical/office are included but limited. The student will also begin to learn to master basic radiographic examinations under the direct supervision of a technologist St. Students will be assigned clinically to approximately 24 contact hours / week Students will perform competency exams as identified by the syllabus. Prerequisites: admission to the radiography program. Parallel: RAD 111, 112, 113, 114, 115. Open only to radiography students.

#### SEMESTER II: SPRING

#### Medical Terminology II - RAD 121 (8 lecture hours, 0.5 credit)

A continuation of Medical Terminology I. Medical terminology specific to the gastrointestinal, urinary, reproductive, cardiovascular, integumentary, endocrine, nervous and sensory systems is presented. This course is largely self-guided with instructor direction. Prerequisites: RAD 111, 112, 113, 114, 115, 119. Parallel: RAD 122, 123, 129. Open only to radiography students.

#### Radiographic Anatomy and Physiology II - RAD 122 (54 lecture hours, 3.5 credits)

This course is a continuation of Radiographic Anatomy and Physiology I and is designed to study the human structure and its functions. Structures and functions to be discussed include the axial skeletal system including the vertebral column, bony thorax, cranial and facial bones, digestive, urinary, biliary, reproductive, endocrine, muscular, integumentary, central nervous, cardiovascular, and lymphatic systems. Sectional anatomy of the head, thorax, abdomen and pelvis will be presented with CT and or MRI image correlation to line diagrams. Prerequisites: RAD 111, 112, 113, 114, 115, 119. Parallel: RAD 121, 123, 129. Open only to radiography students.

#### Radiographic Positioning II - RAD 123 (36 lecture hours, 23 lab hours, 3.0 credits)

This course is a continuation of Radiographic Positioning I and emphasizes the application of skills learned in RAD 104 to new clinical procedures including the vertebral column, bony thorax, cranial exams, and an in-depth presentation of contrast media procedures with focus on the digestive, urinary, and biliary systems. In depth analysis of contrast media pharmacology including uses, contraindications and adverse reactions is included. Venipuncture administration is likewise discussed. Emphasis will be place on radiographic analysis and corrective measures for sub-optimal quality. Additionally, a basic presentation of procedures of the reproductive system, arthrography, and myelography will be presented. An overview of imaging during trauma and surgery is discussed. Age specific considerations including the technical adaptation for and behavioral considerations of patients across a wide spectrum of age will be emphasized. A laboratory component is included. Prerequisites: RAD 111, 112, 113, 114, 115, 119. Parallel: RAD 121, 122, 129. Open only to radiography students.

#### Clinical Education II – RAD 129 (448 clinical hours, 9.5 credits)

This course is a continuation of Clinical Education I as students continue to rotate through various aspects of the radiology department to involve clinical participation under direct and indirect supervision of procedure taught in Radiographic Positioning I and II and to master basic patient care. Students will be assigned clinically to approximately 24 contact hours / week. Students will perform competency exams as required by syllabus. Prerequisites: RAD 111, 112, 113, 114, 115, 119. Parallel: RAD 121, 122, 123. Open only to radiography students.

#### SEMESTER III: SUMMER

#### Medical Ethics and Law - RAD 131 (8 lecture hours, 0.5 credit)

This course is a basic presentation of standards of ethical conduct and behavior relevant to the medical field in general and radiology in specific. Ethical principles and doctrines are reviewed. Discussion of professional responsibility to patient and the profession in terms of Patient Bill of Rights, Code of Ethics, Scope of Practice, and Standard of Care. The basics of legal aspects of medicine will also be discussed. Various situations pertaining to moral, legal and professional conduct will comprise the core material. Among the legal topics to be discussed will be medico-legal consideration, confidentiality, liability, and informed consent. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139. Parallel: RAD 211, 212, 214, 219. Open only to radiography students.

#### Fundamentals of Computed Tomography – RAD 132 (8 lecture hours, 0.5 credit)

This course presents the student with information necessary to achieve clinical competency in routine CT exams of the head / brain, thorax and abdomen / pelvis. Information covered includes basic operating principles of CT, patient care of the CT patient, radiation safety in CT, and procedural aspects of the head / brain (with and without contrast media), thorax and abdomen / pelvis (with and without contrast media). Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139. Parallel: RAD 211, 212, 213, 219. Open only to radiography students.

#### Clinical Education III – RAD 139 (240 clinical hours, 5.0 credits)

This course is a continuation of Clinical Education II and serves as an intensive focus on the advancement of clinical skills acquired in Clinical Education I and II. Students will continue to rotate through various aspects of the radiology department to

involve clinical participation under direct and indirect supervision of procedures taught in Radiographic Positioning I and II. Supplemental outside rotations at secondary clinical education sites within the Ascension St. Vincent system and primary care/ambulatory clinics to promote a wider range of experiences with equipment, protocols, and patient care may be utilized. Students will begin pediatric rotations to advance age specific consideration skills. Students will be assigned clinically to approximately 36 contact hours / week. Students will perform competency exams as required by syllabus. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129. Parallel: RAD 131. Open only to radiography students.

#### SEMESTER IV: FALL

#### Radiographic Principles I - RAD 211 (53 lecture hours, 6 lab hours, 3.5 credits)

Basic fundamentals concerned with the production, analysis, and recording of radiographic images are included in this course. Understanding image receptor exposure, contrast, detail and distortion as well as their interrelationships will be emphasized. Subject matter will include mAs, kVp, distance relationships, geometric image formation, grids, beam limiting devices, filtration, computers, digital image acquisition and processing, post-processing features, and technique charts. A laboratory component is included. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139. Parallel: RAD 212, 213, 214, 219. Open only to radiography students.

#### Fundamentals of Radiation Production – RAD 212 (24 lecture hours, 1.5 credits)

This course is an overview of how x-rays are produced and their interactions in human tissue. To provide a foundation for understanding the production of x-rays, the fundamentals of units of measurements and mathematics, atomic structure and nomenclature, electrodynamics and x-ray circuits, x-ray tubes, and characteristics of x-rays will be discussed. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139. Parallel: RAD 211, 213, 214, 219. Open only to radiography students.

#### Radiographic Pathology - RAD 213 (12 lecture hours, 0.5 credit)

This course includes the nature and causes of disease, injury and illness, especially as it applies to radiology. This course is intended to provide the student a focus on pathology that can affect the technical factors used to obtain a radiographic image. The course correlates various anatomic systems of the body with pathologies found in those systems. Terminology and technical characteristics will be of major emphasis. Systems will include osseous, respiratory, digestive, cardiovascular, and nervous. Non-systemic neoplasia pathologies and general terms will also be discussed. Basic epidemiology will be presented. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129. Parallel: RAD 139. Open only to radiography students.

#### Clinical Education IV - RAD 219 (280 clinical hours, 6.0 credits)

This course is a continuation of Clinical Education III as students continue to rotate through various aspects of the radiology department to involve clinical participation under direct and indirect supervision of procedures taught in Radiographic Positioning I and II and to continue the advancement basic patient care skills. Supplemental outside rotations at secondary clinical education sites within the Ascension St. Vincent system to promote a wider range of experiences with equipment, protocols, and patient care may be utilized. Students will continue pediatric rotations and will begin evening assignments as an introduction to radiography services performed after normal working hours. tudents will begin dedicated CT rotations to foster clinical competency in required CT exams. Students will begin rotations through interventional radiology to further their understanding of therapeutic aspects of medical imaging. Students will be assigned clinically to approximately 16 contact hours / week from August through December. Students will perform competency exams as required by syllabus. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139. Parallel: RAD 211, 212, 213, 214. Open only to radiography students.

#### **SEMESTER V: SPRING**

#### Radiographic Principles II – RAD 221 (38 lecture hours, 2.5 credits)

This course provides the student with a thorough understanding of specific radiographic imaging equipment used in general radiology and the evaluation of these systems through systematic quality control testing. Topics of discussion will include image intensifiers and fluoroscopic equipment, mobile radiographic equipment, automatic exposure control, digital tomosynthesis and quality control. The course will conclude with the students performing an in-depth self-analysis of their repeat exposures in clinical setting and their opportunities for clinical improvement. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139, 211, 212, 213, 214, 219. Parallel: RAD 222, 223, 224, 229. Open only to radiography students.

#### Radiation Protection and Radiobiology - RAD 222 (34 lecture hours, 2.0 credits)

This course identifies the human response to ionizing radiation and identifies tissues that are more sensitive than others in radiation. A synopsis of health physics is also introduced to the student identifying specific agencies that govern the radiation exposure to the general public as well as the occupational worker. The application of radiation protection for patients and personnel will be emphasized. The course will include an exploration of deterministic (short term) and stochastic (long term) effects of radiation. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139, 211, 212, 213, 214, 219. Parallel: RAD 221, 223, 224, 229. Open only to radiography students.

#### Radiographic Image Analysis - RAD 223 (17 lecture hours, 1.0 credit)

This course is designed to assess each student's ability to critique radiographic images for proper patient positioning, exposure factors, anatomy, artifacts and evidence of radiation protection. Critical thinking and problem-solving skills are necessary in determining causes of technical problems and identifying corrective actions. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139, 211, 212, 213, 214, 219. Parallel: RAD 221, 222, 224, 229. Open only to radiography students.

#### Registry Review - RAD 224 (4 lecture hours, 48 lab hours, 1.5 credits)

This course is a review session to help prepare the students for the national ARRT registry examination. A brief overview of the subjects studied during the course of the program will be addressed. The course also incorporates the use of mock board exams to help aid students in the review process. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139, 211, 212, 213, 214, 219. Parallel: RAD 221, 222, 223, 229. Open only to radiography students.

#### Clinical Education V - RAD 229 (432 clinical hours, 9.5 credit hours)

This course is a continuation of Clinical Education IV as students continue to rotate through various aspects of the radiology department with the expectation to refine clinical skills through clinical participation under direct and indirect supervision of procedures taught in Radiographic Positioning I and II and to continue the advancement basic patient care skills. Supplemental outside rotations at secondary clinical education sites within the Ascension St. Vincent system and primary care/ambulatory clinics to promote a wider range of experiences with equipment, protocols, and patient care may be utilized. Students will continue pediatric rotations and continue evening assignments as an introduction to radiography services performed after normal working hours. Students will continue dedicated CT rotations to foster clinical competency in required CT exams. Students will continue rotations through interventional radiology to further their understanding therapeutic aspects of medical imaging. Students will be assigned clinically to approximately 24 contact hours / week. Students must complete all required competencies as defined in syllabus and the Clinical Competency Policy. Prerequisites: RAD 111, 112, 113, 114, 115, 119, 121, 122, 123, 129, 131, 139, 211, 212, 213, 214, 219. Parallel: RAD 221, 222, 223, 224. Open only to radiography students.

# **Clinical Externships**

In addition to on-site didactic (classroom) education, enrolled students learn to apply radiographic concepts in clinical settings. All clinical education is conducted through the Ascension St. Vincent system. When applying for admission to the program, candidates will choose one of three clinical education sites. These <u>Primary Clinical Education Sites</u> are where the student will spend most of their clinical time in the program. Primary Clinical Education Sites are <u>Ascension St. Vincent Kokomo</u>, <u>Ascension St. Vincent Indianapolis Hospital</u>, and <u>Ascension St. Vincent Anderson Regional Hospital</u>. Students assigned to Ascension St. Vincent Kokomo Hospital and Ascension St. Vincent Anderson Hospital will perform some rotations to Ascension St. Vincent Indianapolis Hospital for clinical services not offered in Kokomo or Anderson.

In addition to primary clinical education sites, students will also rotate to <u>Secondary Clinical Education</u> <u>Sites</u> during their senior year. Secondary sites are smaller hospitals within Ascension St. Vincent and offer unique experiences only found in small-town settings. These assignments are 1 week in duration and will occur generally once or twice each semester. Below is a map of all clinical education sites in the Radiography Program.



# **Graduation Requirements**

Radiographers are highly skilled professionals qualified by education to perform imaging examinations and accompanying responsibilities at the direction of a physician qualified to request radiologic procedures. To that end, for the safety and well-being of patients and the community in general, it is the policy of Radiography Program to assure that all graduates entering to profession of radiography have met the rigorous requirements for graduation, thus enabling their eligibility to sit for the American Registry of Radiologic Technologists (ARRT) board examination.

To be eligible for graduation, the following requirements must be met.

# **Competent Practice**

- 1. Apply knowledge of anatomy, physiology and positioning to competently and accurately demonstrate anatomical structures on a radiograph or other imaging receptor.
- 2. Determine exposure factors to achieve optimum radiographic results with minimum radiation exposure to the patient.
- 3. Evaluate radiographic images for appropriate positioning and overall image quality.
- 4. Apply problem solving and critical thinking skills in the academic and clinical settings.

## <u>Safety</u>

- 5. Apply principles of radiation protection to patients, self and others.
- 6. Understand the dangers associated with powerful magnetic fields and apply safety practices while in the MRI area.
- 7. Apply principles of infection control and standard precautions for the protection of patients, self and others.

## Patient Care

- 8. Provide basic patient care and comfort to patients across the age continuum.
- 9. Recognize emergency patient conditions and initiate life-saving first-aid and basic life-support procedures.

## Professional Practice

- 10. Recognize when radiographic equipment is not operating properly and report equipment malfunctions to the proper authority.
- 11. Demonstrate understanding of the role quality assurance and continual quality improvement play in medical imaging.
- 12. Demonstrate effective verbal, non-verbal and written medical communication in providing patient care and maintaining professional relationships with other members of the health care team.
- 13. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
- 14. Comply with the profession's Code of Ethics and Practice Standards and perform clinically within the industry's standard of care.
- 15. Develop professionally beyond the program's clinical and academic performance expectations (see Professional Development policy).

## **Qualifications**

16. Demonstrate ARRT Board examination readiness.

## **Early Graduation**

The program does not allow for early graduation. All students will graduate on or after their scheduled date of graduation.

#### **Program Goals and Outcomes**

The Ascension St. Vincent Radiography Program is committed to offering the highest quality education in medical imaging available. That commitment is carried out though the educational process and high the performance standards students are expected to meet. To measure the effectiveness of the education process, the Radiography Program has established broad Goals and specific Outcomes, which are the foundation of a comprehensive Assessment Plan that details how these Goals and Outcomes are assessed annually. The Radiography Program Assessment Plan can be found online at https://medicaleducation.ascension.org/indiana/st-vincent-radiography-program/-/media/project/microsites/in-st-vincent-radiography-program/documents/assessment-plan-2020-21.pdf.

#### Goal 1: Student Learning: Students will be clinically competent.

- 1.1. Students will produce radiographs of diagnostic patient positioning quality.
- 1.2. Students will produce radiographs demonstrating appropriate radiation safety.
- 1.3. Students will provide quality patient care.

#### Goal 2: Student Learning: Students will demonstrate critically thinking.

- 2.1. Students will be able to analyze radiographs for technical quality.
- 2.2. Students will be able to adapt clinically.

#### Goal 3: Student Learning: Students will communicate effectively.

- 3.1. Students will demonstrate written communication skills.
- 3.2. Students will demonstrate verbal communication skills.

#### Goal 4: Program Effectiveness: The program will prepare students to challenge the ARRT credentialing exam.

4.1. An adequate % of program graduates will successfully pass the ARRT examination on the first attempt.

#### Goal 5: Program Effectiveness: The program will maintain a positive learning environment.

- 5.1. Graduating students will express overall satisfaction with the program prior to graduation.
- 5.2. Alumni will express overall satisfaction with the program quality

#### Goal 6: Program Effectiveness: The program will demonstrate a positive effect on the community.

- 6.1. Students will graduate from the program.
- 6.2. Program graduates actively seeking employment will be gainfully employed.
- 6.3. Employers of program graduates will express overall satisfaction with graduate quality.

# Program Outcome Results

Below are the 5-year running results on key program outcomes. For more detailed program assessment results, contact the program director (contact information is found herein under "Program Faculty").

# **ARRT Results (Goal 5)**

- 2021: 93.3% first-attempt pass rate (14 of 15 graduates passed)
- 2020: 100% first-attempt pass rate (14 of 14 graduates passed)
- 2019: 100% first-attempt pass rate (13 of 13 graduates passed)
- 2018: 100% first-attempt pass rate (15 of 15 graduates passed)
- 2017: 100% first-attempt pass rate (9 of 9 graduates passed)
- 5-year average: 98.5% first-attempt pass rate (65 of 66 graduates passed)

# Program Completion (Goal 7)

- 2021: 94% (15 of 16 students graduated)
- 2020: 88% (14 of 16 students graduated)
- 2019: 81% (13 of 16 students graduated)
- 2018: 94% (15 of 16 students graduated)
- <u>2017: 64% (9 of 14 students graduated)</u>
- 5-year average: 84.6% (66 of 78 graduated)

# Employment / Placement within 12 months following graduation (Goal 7)

- 2021: 100% (15 of 15 graduates employed)
- 2020: 100% (14 of 14 graduates employed)
- 2019: 100% (13 of 13 graduates employed)
- 2018: 100% (15 of 15 graduates employed)
- 2017: 100% (8 of 8 graduates employed; 1 graduate continued education)
- 5-year average: 100% (65 of 65 graduates employed)

# **Terminal Credential**

Upon completion of the program, graduates will earn the Associate of Applied Science degree in Radiography. After completing the program, graduates must take and pass the national certifying exam given by the American Registry of Radiologic Technologists (ARRT) to earn a Radiologic Technologist license from the Indiana State Department of Health (see "Program Overview" herein).

## **Program Faculty**

# Program Director / Dean of Accreditation and Compliance

Mark Adkins, MSEd, RT (R)(QM) Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-3879 Email: <u>MEAdkins@ascension.org</u>

Mark Adkins assumed the role of Ascension St. Vincent Radiography Program Director in March 2003. Mr. Adkins was appointed the Ascension St. Vincent College of Health Professions Dean of Operations in January 2015. Mr. Adkins previously served as a Program Director for 6 years at Ascension St. Mary's

Hospital in Huntington, WV and as a program faculty member at the University of Kentucky for 5 years. He also served as Director of Radiology for Ascension St. Joseph Healthcare in Lexington, KY. Mark completed his radiography training at a hospital-based program in Ashland, KY in 1986, graduated from the University of Kentucky with a BS in 1990 and a MSEd in 1994. He is board certified by the American Registry of Radiologic Technologist (ARRT) in general radiography (R) and quality management (QM).

#### **Clinical Coordinators**

David Sidor, MS, RT (R) Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-2868 Email: <u>DBSidor@ascension.org</u>

David Sidor has been an associate at St Vincent Hospital since 1999. He has served as clinical instructor and departmental education consultant for the Medical Imaging department from 2001 - 2003. Mr. Sidor received his radiology training during his four years of service in the United States Army from 1984-1988. He worked four years in a Level 1 acute trauma center in Baltimore, MD

and seven years at an immediate care center in Avon, IN. Mr. Sidor attended IUPUI and received a Bachelor of Science degree in biology from Purdue University in 2001 and his Master of Science degree in learning and technology from Western Governor's University in 2013. He is board certified by the American Registry of Radiologic Technologist (ARRT) in general radiography (R).





Kevin Godshall, BS, RT (R) Ascension St. Vincent Kokomo Hospital 1907 W. Sycamore Ascension St. Kokomo, IN 46904-9010 (765) 456-5569 Email: godshalk@ascension.org

Kevin Godshall has been an associate at Ascension St. Vincent Kokomo Hospital since 2003. He has been a professional radiographer for over 35 years with past experience in general radiography, trauma radiography, C.T., radiation therapy and education. For 14 years he served as the clinical instructor and faculty

member of the Ascension St. Francis Medical Center Radiography Program in Peoria, Illinois. Mr. Godshall received his Associates degree in Radiography from Sauk Valley Community College in Dixon, Illinois. He earned his Bachelor of Science degree in Health Arts from the College of Ascension St. Francis, Joliet, Illinois in 1994. He is board certified by the American Registry of Radiologic Technologists (ARRT) in general radiography (R).

#### Summer Cox, BS, RT (R)(CT)

Ascension St. Vincent Anderson Regional 215 Jackson Ascension St. Anderson, IN 46016 (765) 646-8619 Email: <u>Summer.Cox@ascension.org</u>

Summer Cox has been employed at Ascension St. Vincent Anderson Hospital in medical imaging since 2008. She graduated from Ball State University with a bachelor's degree in 2002. She completed radiography training through Ascension St. Vincent/Ascension St. Joseph Hospital Radiography Program in 2008. Following graduation, she worked in general radiography and served as clinical instructor for

Ascension St. Vincent Anderson Hospital for one year. In 2010, Ms. Cox began cross-training in CT and completed post graduate training in computed tomography through Ascension St. Vincent/Ascension St. Joseph Hospital Radiography Program. Summer is board certified by the American Registry of Radiologic Technologists (ARRT) in general radiography (R) and computed tomography (CT).

#### **Adjunct Clinical Instructors**

Jessica Mancini, RT (R) St. Vincent Indianapolis Hospital Phone: (317) 338-3243

Isaac Eastburn, RT (R) St. Vincent Carmel Hospital Phone: (317) 582-7146

Autumn Drake, BS, RT (R) St. Vincent Clay Hospital Phone: (812) 442-2562

Angela Bruther, RT (R) St. Vincent Jennings Hospital Phone: (812) 352-4310 Wesley Sefton, RT (R) St. Vincent Kokomo Hospital Phone: (765) 456-5566

Jamie Bryant, RT (R) St. Vincent Williamsport Hospital Phone: (765) 762-4073

**Birgitta Handford, RT (R)** St. Vincent Fishers Hospital Phone: (317) 415-9000 Kathy Reger, RT (R) St. Vincent Anderson Hospital Phone: (765) 646-8202

Kevin Bangle, RT (R) St. Vincent Mercy Hospital Phone: (765) 552-4698

Anita Hines, RT (R) St. Vincent Randolph Hospital Phone: (317) 584-0296





# **Section IX**

# **Diagnostic Medical Sonography Program**

## **Program Overview**

Ascension St. Vincent Diagnostic Medical Sonography Program is a twenty-four month (96 instructional weeks), full-time residential education program covering the art and science of sonography (or ultrasound technology). Sonography is one of several fields of medicine involving diagnostic imaging examinations that are interpreted by a radiologist or other physician. These fields collectively are referred to as medical imaging. Sonographers (or Ultrasound Technologists) are educated in anatomy, patient positioning, examination techniques, equipment protocols, ultrasound safety, and basic patient care. Sonographers work in a variety of areas of Medical Imaging including general sonography, obstetrics and gynecology sonography, vascular sonography and pediatric sonography. Sonographers with advanced degrees may also work in hospital management, education, or sales / marketing. Sonographers work in a variety of settings, including hospitals, clinics, physician offices, and mobile units. To learn more about sonography fields http://www.ardms.org/Discoverand related in medical imaging, visit ARDMS/Students/Pages/Resources-for-Students.aspx

Individuals interested in the program must submit an application to be considered for acceptance into the program. If selected, classes begin in June, with graduation occurring 24 months later in May. Since the program has limited student capacity, selection into the program is competitive. Not every applicant who applies to the program will be selected. To learn more about the selection process, see "Admissions" in this section.

The Sonography Program offers a residential curriculum that consists of both intensive classroom education and hands-on clinical training. Enrolled students are engaged in clinical or classroom activities on-site five days per week. All classroom education and clinical training is conducted within the Ascension St. Vincent system.

The Sonography Program gained programmatic accreditation through The Commission on Accreditation of Allied Health Education Programs (CAAHEP) based on the recommendation from the Joint Review Committee



on Education in Diagnostic Medical Sonography (JRC-DMS) in November of 2020. This accreditation is the gold standard for ultrasound programs and enables the student to sit for their American Registry of Diagnostic Medical Sonography (ARDMS) specialty board examination under prerequisite 2, a graduate from an accredited program.

Sonographers, or Ultrasound Technologists, work under the direction of a radiologist or other qualified physician to perform medical imaging procedures on patients for diagnosis. Sonographers work in a variety of settings including hospitals, walk-in clinics and physician offices. In hospital settings, sonographers perform medical imaging procedures in the medical imaging department, emergency department (ER), surgery, and bedside in patient rooms and critical care units.



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# Job Overview

Sonography has many different areas of concentration, including but not limited to, abdomen, superficial structures, obstetrics, gynecology and vascular technology. Each of these concentrations will be taught to the sonography students to provide a well-rounded education that prepares them to work as a sonographer within the hospital setting.

During the performance of sonographic procedures, sonographers must communicate with and provide



care to patients of all ages and in all physical conditions. Sonographers manipulate sonographic and patient care equipment to accurately demonstrate anatomical structures on medical images and to provide quality care. Sonographers work frequently with computer systems to enter patient information and produce digital sonographic images.

Sonographers must be able to take direction from physicians and management and yet operate independently within the scope of practice and state and federal regulations. Sonographers use critical thinking in adapting sonographic examinations to unique circumstances and in assessing medical images for appropriate image quality and corrective actions, if needed. Sonographers must be emotionally stable to perform sonographic examinations on patients under difficult circumstances.

# **Essential Skills and Abilities**

To competently practice sonography, sonographers must possess the following skills and abilities:

- 1. Physical/Motor Skills
  - Stand and walk for extended periods of the time
  - Perform physically strenuous tasks including raising patients in bed, maneuvering patients to and from tables/stretchers and carrying or maneuvering equipment
  - Rise from a seated position without assistance
  - Twist and bend at the waist
  - Extend the hands and arms in any direction
  - Hold, grasp and turn objects with the hands
  - Reach your hands above your head
- 2. Sensory Abilities
  - Correctable near vision to 20 / 40 in at least one eye
  - Correctable far vision to 20 / 40 in at least one eye
  - Depth perception
  - Distinguish colors
  - Hear audible speech (e.g. person-to-person communication) at 10 feet
  - Hear speech when lips are not visible (e.g. wearing a surgical mask)
  - Hear auditory alarms (e.g. patient monitors, fire alarms)
  - Hear speech over a telephone
  - Detect odors such as smoke, alcohol, noxious gasses

- 3. Communication Abilities
  - Read documents in English
  - Write legibly in English
  - Speak fluently in English
  - Understand speech in English
  - Adapt verbal communication to patient/visitor limitations (e.g. hearing loss, pediatrics, diminished mental capacity)
- 4. Emotional and Behavior Skills
  - Willingness to take directions
  - Be self-directed and assertive
  - Provide emotional support to others in distress
  - Adapt to a changing environment
  - Monitor own emotional state
  - Manage frustration appropriately
  - Accept responsibility for own errors or shortcomings
  - Express emotions in a socially acceptable manner
  - Respect interpersonal boundaries
  - Manage interpersonal and organizational conflicts in a respectful and professional manner
- 5. Intellectual Abilities
  - Recall information with reasonable accuracy
  - Recognize cause and effect relationships
  - Anticipate/plan ahead for activities or situations
  - Perform tasks in a logical and efficient sequence
  - Prioritize competing tasks
  - Problem solve when the solution is not self-evident
  - Use visual/spatial processing in evaluating sonographic images
  - Demonstrate attention to detail
  - Evaluate own performance to determine corrective actions when appropriate

Ascension St. Vincent does not discriminate on the basis of disability as determined by the American with Disabilities Act (ADA). Physical/motor skills, sensory abilities, and communication skills are not assessed during the selection phase of the admissions process. Emotional/behavioral skills and intellectual abilities are assessed during the selection phase of the admissions process as they relate to a candidate's academic record and ability to communicate effectively in English during a personal interview. The ASVCHP Disability Accommodations policy will detail the procedure to request disability accommodations.





## Program History

The Diagnostic Medical Sonography Program began in 2018 and enrolled its first class of students in June of 2019. Ashlie Munchel was brought on board in April of 2018 as the Sonography Program Director to begin building the sonography program. The sonography program is a great addition to the college and Ascension St. Vincent as it will help fill the shortage of ultrasound technologists within the medical imaging field.

## **Mission Statement**

Our Mission is to make a positive difference in the lives and health delivery status of our students, the people we serve, and the community. This is accomplished through a commitment of excellence by our faculty and staff, Advisory Board, and the sponsoring institutions in the delivery of quality training and education opportunities in medical imaging sciences. We will display compassion and dignity to all. Our paradigms will be open to all aspects of education that do not violate the Mission or Core Values of our sponsoring and affiliated institutions.

## **Facilities**

All sonography education occurs within the Ascension St. Vincent network. The Sonography Program has a dedicated classroom at Ascension St. Vincent Indianapolis Hospital where all students will have didactic classes. The Ascension St. Vincent Indianapolis Hospital Sonography Scan Lab has two patient carts and two ultrasound machines for practicing. Students will scan each other in a supervised scan lab to gain practice on the material taught in the classroom and seen during clinical rotations.

Clinical education occurs at hospitals throughout Ascension St. Vincent. All Ascension St. Vincent hospitals have a variety of medical imaging equipment that students will use under supervision for performing sonographic procedures on actual patients, practicing sonographic positioning concepts and performing "laboratory" assignments to better understand theoretical concepts and scanning techniques. More information is found in this section under "Clinical Externships."

## **Program Goals and Outcomes**

The Sonography Program is committed to offering the highest quality education in medical imaging available. That commitment is carried out through the educational process and through the performance standards students are expected to meet. To measure the effectiveness of the education process, the Sonography Program has established broad <u>Goals</u> and specific <u>Outcomes</u>, which are the foundation of a comprehensive Assessment Plan that details how these <u>Goals</u> and <u>Outcomes</u> are assessed annually. The Sonography Program Assessment Plan can be found online at http://www.stvincent.org/education/sonography/.

## Goal 1: Students will be clinically competent.

- 1.1. Students will produce sonographic images of diagnostic quality.
- 1.2. Students will produce sonographic images demonstrating the ALARA principle.
- 1.3. Students will produce sonographic images demonstrating appropriate anatomical identification.
- 1.4. Students will be able to analyze sonographic images for quality.

#### Goal 2: Students will demonstrate the ability to critically think.

2.1. Students will be able to analyze sonographic images for quality.

#### Goal 3: Students will communicate effectively.

- 3.1. Students will demonstrate written communication skills.
- 3.2. Students will demonstrate verbal communication skills.

#### Goal 4: Students will model professionalism.

- 4.1. Students will display a professional attitude in daily practice.
- 4.2. Students will demonstrate professional behaviors in daily practice.
- 4.3. Graduates will demonstrate professional behaviors in daily practice.

#### Goal 5: Student will provide quality patient care.

- 5.1. Students will provide quality patient care in daily practice.
- 5.2. Students will recognize and demonstrate understanding of behavioral and communication characteristics of patients across the age continuum

#### Goal 6: The program will prepare students to challenge the ARDMS/ARRT specialty credentialing exam.

- 6.1. An adequate % of program graduates will successfully pass at least one of the ARDMS specialty examinations on the first attempt upon graduation.
- 6.2. Program graduates will demonstrate overall mastery on the ARDMS specialty exams.

#### Goal 7: The program will maintain a positive learning environment.

- 7.1. Students will express satisfaction with clinical education sites.
- 7.2. Students will express satisfaction with academic courses.
- 7.3. Graduating students will express overall satisfaction with the program prior to graduation.
- 7.4. Alumni will express overall satisfaction with the program quality

#### Goal 8: The program will demonstrate a positive effect on the community.

- 8.1. Students will graduate from the program.
- 8.2. Program graduates actively seeking employment will be gainfully employed.
- 8.3. Employers of program graduates will express overall satisfaction with graduate quality.

Goal 9: The program will prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains in abdominal-extended sonography.

Goal 10: The program will prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains in obstetrics and gynecology sonography.

Goal 11: The program will prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains in vascular sonography.

# **Program Outcome Results**

Sonography Principles and Instrumentation Board Exam					
Year	# Attempted	# Passed	Percent		
2020	8	8	100%		
2021 7		7	100%		
		2 Year SPI Average	100%		

Abdomen Board Exam					
Year # Attempted # Passed Percent					
2021	5	5	100%		
		1 Year Abdomen Average	100%		

OBGYN Board Exam						
Year	# Attempted	# Passed	Percent			
2021	4	4	100%			
		1 Year OBGYN Average	100%			

Vascular Board Exam						
Year	# Attempted	# Passed	Percent			
2021	5	5	100%			
		1 Year Vascular Average	100%			

Job Placement					
Graduation Year	# Graduates	# Students Employed	Employment Rate		
2021	8	7	88%		
		1 Year Job Placement Average	88%		

Graduation Rate					
Graduation Year	# Student Entering Program	# Students Completing Program	Graduation Rate		
2021	8	8	100%		
		1 Year Graduation Average	100%		

# **Clinical Externships**

In addition to on-site didactic (classroom) education, enrolled students learn to apply sonographic concepts in clinical settings. All clinical education is conducted through the Ascension St. Vincent system. Below are sonography program clinical education sites.

- Ascension St. Vincent Indianapolis Hospital
- Ascension St. Vincent Women's Hospital
- Ascension St. Vincent Carmel Hospital
- Ascension St. Vincent Fishers Hospital
- Ascension St. Vincent Anderson Regional Hospital
- Ascension St. Vincent Kokomo Hospital
- Ascension St. Vincent Maternal Fetal Medicine (Indianapolis and Carmel)
- Ascension St. Vincent Primary Care Center
- Vein Solutions and Ascension St. Vincent Medical Group Vascular Lab



# **Admissions**

Ascension St. Vincent Sonography Program provides equal opportunity to all applicants. The program is selective in its admissions practices and evaluates applicants based on merit without discrimination on the basis of age, race, religion, creed, color, national origin, marital status, gender, disability, veteran status, sexual orientation, or any other legally protected status. The program selects one class annually based on requirements and preference categories listed herein.

## **Application Procedure**

To be considered for admission into the Sonography Program, an application must be submitted. In addition to the College admission requirements described in Section III, Sonography Program applicants must also attend a mandatory pre-admission conference during the year of application. The application and admission conference dates, locations and times can be found on the sonography program website at <a href="https://medicaleducation.ascension.org/indiana/st-vincent-sonography-program">https://medicaleducation.ascension.org/indiana/st-vincent-sonography-program</a>. All application documents must be sent directly to the Program Director as indicated on the application.

## Admission Requirements

To be accepted in the program, the applicant must meet the following requirements:

- 1. Be 18 years of age by June 1 of the year applying for enrollment.
- 2. Be a citizen of the United States or permanent "green card" legal resident.
- 3. Have a minimum college GPA of 2.50 (4.00 scale) on <u>all</u> college academic work.
- 4. Complete at least <u>3</u> credit hours in <u>Algebra, Statistics or higher mathematics course</u> by <u>June 1</u> of the enrollment year.
- 5. Complete at least <u>3</u> credit hours in <u>general college-level physics and/or radiographic</u> <u>physics</u> by <u>June 1</u> of the enrollment year.
- 6. Complete at least <u>3</u> credit hours in <u>Communication Skills</u> (The communication skills requisite may be met by a variety of courses including, English, speech or composition) by <u>June 1</u> of the enrollment year.
- 7. Complete at least <u>5</u> credit hours in <u>Human Anatomy and Physiology</u> by <u>June 1</u> of the enrollment year.
- 8. Complete at least <u>1</u> credit hours in <u>Medical Terminology</u> by <u>June 1</u> of the enrollment year.
- 9. All general education courses must be 100 level or higher courses.
- 10. The above coursework must be from regionally accredited institutions.
- 11. All of the above courses must be completed with a letter grade of "C" or better.
- 12. Application to the Diagnostic Medical Sonography Program
- 13. Narrative, signed and dated, that addresses the following:
  - Explain why you want to be a general or vascular sonographer
  - Describe what you believe are essential traits of a diagnostic medical sonographer
  - List your long-term career goals
- 14. Attend mandatory pre-admission conference during the year of application

# Preferences

All candidates who meet minimal requirements are encouraged to apply to the program. Because the selection process is competitive, not all applicants who meet minimal admission requirements will be selected into the program. All qualified candidates will be evaluated for consideration based on merit utilizing the program's established screening process. Preference may be given to candidates who, at the time of application, have earned a bachelor's degree in any discipline from a regionally accredited institution or has completed a single two-year allied health education program that is patient-care related.

## **Bankruptcy Appeal**

For a variety of reasons, there are some individuals whose overall college GPA is adversely affected by a period of poor academic performance, such that their overall GPA is not an accurate indication of their true academic abilities. Many of these same students have subsequently demonstrated the ability to achieve academic success. The bankruptcy policy allows individuals to exclude an earlier portion of their academic record while still receiving credit for having passed prerequisite courses so that the GPA considered by the Program Admissions Committee more accurately reflects the student's true academic abilities. The policy does not allow individuals to pick and choose poor classes or semesters, but instead allows an individual to convey, "that was me then, but this is what I am capable of now." If you feel that this policy would benefit you, we encourage you to submit your appeal.

Applicants may request in writing to the program director that college grades prior to a specified date <u>not</u> be factored into the calculation of an overall college GPA and therefore <u>not</u> be considered as part of the selection criteria provided the following criteria are met:

- The applicant must make the request in writing and include the college(s) attended and dates of attendance to be bankrupted.
- The applicant must include a rationale why the original GPA should be bankrupted and what the applicant did to improve his/her academic performance since the bankruptcy date.
- The request must be signed and dated.
- The applicant must have completed and maintained at least a 2.50 / 4.00 cumulative GPA on at least 12 credit hours of 100 level courses following the date of requested bankruptcy.

If approved, <u>all</u> academic grades prior to the bankruptcy date will not be considered toward the calculated GPA. However, all courses passed with a letter grade of "C" or higher regardless of bankruptcy will still be counted toward meeting the program's general education requirements.

The program faculty will review each bankruptcy request and render a decision based on the merits of each request individually. Transcripts of all academic work must still be submitted as indicated earlier.

# Foreign Educated Applicants

Applicants educated in foreign countries are welcomed to apply to the program. However, candidates must have completed all the program's general education requirements through regionally accredited American colleges and universities. No foreign academic work will be considered toward the general education requirements. Foreign transcripts or the equivalent domestic evaluation of foreign transcripts (ECE, for example) are not required.

# Selection Procedure

Applications are initially reviewed for completeness of required documents. Only members of the program faculty will review application files for minimal requirements and scoring. Only applications meeting minimal requirements will be considered for admission. The program reserves the right to automatically reject candidates who have been interviewed and rejected twice.

Of the applicants who attend the Pre-Admission Conference, a pre-determined number of applicants will be invited to attend a personal interview. Interviews will be conducted by members of the program faculty, medical imaging managers and sonographers within Ascension St. Vincent. Interview candidates will be notified via email of their respective interview appointment. Interviews will be conducted using an established format including defined questions and interview score sheet.

Following each candidate's interview, a comprehensive score will be determined by the interview team. This comprehensive score is based in part on the interview itself but will also include characteristics and factors that are predictive of success in the program. Applicants will be rank ordered according to their comprehensive score. Final selection of applicants into the program will be based on the comprehensive score and represents the interview team's assessment of the overall likelihood of applicant success in the program. Applicants with tied comprehensive scores are further rank ordered according to their academic scores.

# **Disclosure of Criminal History**

Students are required to disclose in a timely manner to the Program Director any criminal actions or proceedings, excluding speeding and minor traffic violations, that occur at any time during enrollment in the program. Students who disclose their criminal actions must provide details of the proceedings. If the criminal proceedings are in progress, the student is expected to provide a timeline of the court proceedings and to submit to the program the final verdict and actions. Failure to disclose a criminal action or proceedings will result in rejection of a candidate's application, revocation of conditional acceptance, or dismissal from the program if actively enrolled.

The American Registry of Diagnostic Medical Sonography (ARDMS) or American Registry of Radiologic Technologists (ARRT) may deny eligibility to write the certification exam to individuals who have been convicted of a felony or a misdemeanor excluding speeding and minor traffic violations. Upon disclosure of criminal proceedings, the student may be required to submit to the ARDMS or ARRT a pre-eligibility application at their own expense. The student will be required to forward the decision of the ARDMS/ARRT to the Program Director upon receipt of the decision. The decision of the ARDMS will be considered when determining if the student will remain enrolled in the program. Failure to disclose a criminal action or proceedings will result in rejection of a candidate's application, revocation of conditional acceptance, or dismissal from the program if actively enrolled.

## **Disclosure of Professional License or Certification Suspension or Revocation**

All Sonography Program applicants are required to disclose if they have ever had a professional license or certification suspended or revoked by any certifying agency or governing body. Applicants must provide details of the suspended or revoked professional license or certification as directed in the application. Failure to disclose a suspended or revoked professional license or certification will result in denial of consideration or withdrawal of conditional acceptance. Ascension St. Vincent reserves the right to deny

acceptance or rescind conditional acceptance to any individual history of suspended or revoked professional license or certification based on individual circumstances.

# Satisfactory Academic Progress

Students are required to maintain satisfactory academic progress to remain enrolled in the Sonography Program. This includes meeting the published grading criteria, attendance standards, or professional standards. On occasion, it becomes necessary to delay completion of the program due to completion of program requirements, medical leave, or other situations. A delay in academic progression, however, cannot exceed 150% of the normal program length.

The Diagnostic Medical Sonography Program adheres to the Academic Progress Standards in Section IV and follows the College grading unless otherwise noted in the course syllabus.

Additionally, the Sonography Program follows a mastery-based approach to academic performance expectations. The program requires a minimum score to be achieved (80.0% for most written lecture tests, 75.0% for clinical competency evaluation) before the student can be considered to have "mastered" the material. Failure to achieve this minimum score will result in the student being required to repeat the exam/assessment for a capped maximum score. Failure to achieve the minimum passing score after the third attempt will result in remediation of the material and either probation or dismissal from the program depending on the situation. Further information regarding program academic progress expectations are included the Student Handbook made available to the student on the first day of class or may be obtained by contacting the Sonography Program Director.

## **Graduation Requirements**

Sonographers are highly skilled professionals qualified by education to perform imaging examinations and accompanying responsibilities at the direction of a physician qualified to request radiologic procedures. To that end, for the safety and well-being of patients and the community in general, it is the policy of Sonography Program to assure that all graduates entering to profession of sonography have met the rigorous requirements for graduation, thus enabling their eligibility to sit for the American Registry of Diagnostic Medical Sonography (ARDMS) or American Registry of Radiologic Technologists (ARRT) board examination.

To be eligible for graduation, the following requirements must be met.

#### **Competent Practice**

- 1. Apply knowledge of anatomy, physiology and positioning to competently and accurately demonstrate anatomical structures on a sonographic image.
- 2. Apply knowledge of physics instrumentation to achieve the best diagnostic quality sonographic images possible.
- 3. Evaluate sonographic images for appropriate positioning and overall image quality.
- 4. Apply problem solving and critical thinking skills in the academic and clinical settings.

## <u>Safety</u>

- 5. Apply principles of ultrasound safety to patients, self and others.
- 6. Apply knowledge of physics instrumentation to adhere to the ALARA principle.

7. Apply principles of infection control and standard precautions for the protection of patients, self and others.

#### Patient Care

- 8. Provide basic patient care and comfort to patients across the age continuum.
- 9. Recognize emergency patient conditions and initiate lifesaving first aid and basic life-support procedures.

#### **Professional Practice**

- 10. Recognize when sonographic equipment is not operating properly and report equipment malfunctions to the proper authority.
- 11. Demonstrate understanding of the role quality assurance and continual quality improvement play in medical imaging.
- 12. Demonstrate effective verbal, non-verbal and written medical communication in providing patient care and maintaining professional relationships with other members of the health care team.
- 13. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
- 14. Comply with the profession's Code of Ethics and Practice Standards and perform clinically within the industry's standard of care.
- 15. Develop professionally beyond the program's clinical and academic performance expectations (see Professional Development policy).

#### **Qualifications**

- 16. Pass the Sonography Principles and Instrumentation board examination through the ARDMS.
- 17. Pass at least one specialty board exam (abdomen, OBGYN, and/or vascular technology) through the ARDMS/ARRT.

## **Evidence of Eligibility**

Prior to graduation, each student will meet with the Program Director or designee to evaluate eligibility for graduation against the graduation requirements.

## **Early Graduation**

The program does not allow for early graduation. All students will graduate on or after their scheduled date of graduation.
# Diagnostic Medical Sonography Program Associate of Applied Science Curriculum

		General Educa	ation (Transferred in)					
Course Code	Course Title Credits Cc		Course Code	ourse Code Course Title				
NA	Algebra, Statistics or Higher Math	3	NA	Medical Ter	minology	1		
NA	Gen. Physics or Radiographic Physics	3						
NA	Communication Skills	3						
NA	Human Anatomy and Physiology	5						
	Summer Semester I							
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 111	Intro to DMS		16	24	0	1.5		
DMS 112	Patient Care		24	9	0	1 .5		
DMS 113	Fundamentals of Ultrasound		20	0	0	1		
DMS 119	Clinical Observation		20	0	80	3		
	Total		80	33	80	7.0		
		Fall	Semester II		1			
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 121	General Sonography	l	36	60	0	4.5		
DMS 122	OBGYN Sonography I		28.5	15	0	2.5		
DMS 123	Vascular Technology I		19	57	0	3		
DMS 124	Ultrasound Physics I		47.5	0	0	3		
DMS 129	Clinical Practicum I		0	0	312	6.5		
	Total		131	132	312	19.5		
		Spring	s Semester III			•		
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 131	General Sonography II		36	57	0	4		
DMS 132	OBGYN Sonography II		28.5	12	0	2		
DMS 133	Vascular Technology II		19	54	0	3		
DMS 134	Ultrasound Physics II		45	0	0	3		
DMS 139	Clinical Practicum II		0	0	304	6.5		
	Total	128.5	123	304	18.5			
		Summe	er Semester IV		1	1		
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 219	Clinical Practicum III		0	0	312	6.5		
	Total		0	0	312	6.5		
		Fall	Semester V			I		
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 221	General Sonography	111	19	21	0	1.5		
DMS 222	OBGYN Sonography III		28.5	8	0	2		
DMS 223	Vascular Technology III		20	57	0	3		
DMS 229	Clinical Practicum IV		0	0	464	10		
	Total		67.5	86	464	16.5		
Spring Semester VI								
Course Code	Course Title		Lecture Hours	Lab Hours	Clinical Hours	Credits		
DMS 231	Research on Case Studies		0	57	0	1.5		
DMS 232	Registry Review		21	36	0	2.5		
DMS 239	Clinical Practicum V		0	0	440	9.5		
Total 21 93 440								
General Education Credits Required						15		
Program Credits Required						81.5		
Total Credits Required								

## **DMS Program Course Descriptions**

#### **SEMESTER I: SUMMER**

#### Intro to DMS - DMS 111 (16 lecture hours, 24 lab hours, 1.5 credits)

This course provides the diagnostic medical sonography student with an orientation of the program, introduces the student to the sonographic equipment, sonographic anatomy and sonographic scanning so the student can transition into the clinical site with basic knowledge of a sonographer and their expectations. This course will give the student's knowledge of the protocols being utilized in their clinical settings. The students will have a very basic and limited understanding of normal anatomy, physiology, protocol, and scanning techniques with the more frequent exams seen in general and vascular sonography so the students can transition into their clinical site with a better understanding of sonography. This course contains educational objectives, learning activities and scan labs directed toward aiding the student in obtaining this goal. Parallel: DMS 112, 113, 119. Open only to sonography students.

#### Patient Care - DMS 112 (24 lecture hours, 9 lab hours, 1.5 credits)

This course provides the diagnostic medical sonography students with the basic concepts of patient care including consideration for the physical and psychological needs of the patient. Some topics to be covered include: Safety and transport of a patient, infection control, isolation techniques, aseptic technique, handling acute situations, pharmacology, emergency recognition and response, and vital signs. This is a time for the students to develop their own patient care techniques while developing an understanding of body mechanics, patient assessment techniques, ethical, legal, and professional issues. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Parallel: DMS 111, 113, 119. Open only to sonography students.

#### Fundamentals of Ultrasound - DMS 113 (16 lecture hours, 0 lab hours, 1 credits)

This course is designed to provide the diagnostic medical sonography students an understanding of work-related musculoskeletal injury, incidence of sonographer injuries, and prevention of such injuries by following proper ergonomic guidelines. This course will also provide the student with knowledge of and the importance of professional development and continuing education within the field of Diagnostic Medical Sonography. The student will be able to discuss and define the use of Information Technology within the field of Radiology. This course will also give the student a good understanding of Medical Ethics and Law as it pertains to the Patient's Bill of Rights and the Health Insurance Portability and Accountability Act (HIPAA). Parallel: DMS 111, 112, 119. Open only to sonography students.

#### Clinical Observation - DMS 119 (20 lecture, 80 clinical hours, 3 credits)

This course provides the diagnostic medical sonography student with an introduction to sonographic anatomy, sonographic scanning, and patient care. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Parallel: DMS 111, 112, 113. Open only to sonography students.

#### SEMESTER II: FALL

#### General Sonography I - DMS 121 (38 lecture hours, 60 lab hours, 4.5 credits)

Upon completion of this course, the diagnostic medical sonography student will gain knowledge and understanding of the normal organ systems and vascular structures of the abdomen and superficial organs. The student will gain knowledge to recognize and identify the sonographic appearance of normal anatomic structures, including anatomic variants and normal Doppler patterns of the abdomen and superficial organs. The students will gain knowledge of the invasive procedures that are performed with ultrasound guidance. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119. Parallel: DMS 122, 123, 124, 129. Open only to sonography students.

#### OBGYN Sonography I - DMS 122 (30 lecture hours, 18 lab hours, 2.5 credits)

This course is designed to provide the diagnostic medical sonography student with a thorough understanding of normal and abnormal female pelvic anatomy, pathology associated with the female pelvis, conception, infertility, embryonic development, first trimester normal anatomy and sonographic technique and appearance of the aforementioned topics. This course will also teach pelvic Doppler technique. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119. Parallel: DMS 121, 123, 124, 129. Open only to sonography students.

## Vascular Technology I - DMS 123 (23 lecture hours, 57 lab hours, 3 credits)

This course is designed to provide the diagnostic medical sonography student with the knowledge of the peripheral venous system and peripheral arterial system to include anatomy, physiology and pathology of the aforementioned system. This course is also designed to provide an understanding of miscellaneous arterial and venous anatomic and pathological conditions related to the profession of sonography. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119. Parallel: DMS 121, 122, 124, 129. Open only to sonography students.

#### Ultrasound Physics I - DMS 124 (47.5 lecture hours, 0 lab hours, 3 credits)

This course allows the diagnostic medical sonography student to develop a fundamental knowledge of the physical and vascular principles that are used in the field of diagnostic medical sonography. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119. Parallel: DMS 121, 122, 123, 129. Open only to sonography students.

## Clinical Practicum I - DMS 129 (312 clinical hours, 6.5 credits)

This course has students rotate through various clinical sites. This course provides the diagnostic medical sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 16 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: DMS 111, 112, 113, 119. Parallel: DMS 121, 122, 123, 124. Open only to sonography students.

#### SEMESTER III: SPRING

#### General Sonography II - DMS 131 (36 lecture hours, 54 lab hours, 4 credits)

Upon completion of this course, the diagnostic medical sonography student will gain knowledge and understanding of the normal and abnormal organ systems and vascular structures of the abdomen and superficial organs. The student will gain knowledge to recognize, identify, and appropriately document the abnormal sonographic and Doppler patterns of disease processes, pathology, and pathophysiology of the abdomen and superficial structures. The student will learn how to modify the scanning protocol based on the sonographic findings and the differential diagnosis. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129. Parallel: DMS 132, 133, 134, 139. Open only to sonography students.

## OBGYN Sonography II - DMS 132 (28.5 lecture hours, 12 lab hours, 2 credits)

This course is designed to provide the diagnostic medical sonography student with a thorough understanding of, normal and abnormal 1<sup>st</sup>, 2<sup>nd</sup> and 3rd trimester fetal development, pathologies that can occur during fetal development and prognosis and treatment of such pathologies during pregnancy and after birth. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129. Parallel: DMS 131, 133, 134, 139. Open only to sonography students.

## Vascular Technology II - DMS 133 (19 lecture hours, 57 lab hours, 3 credits)

This course is designed to provide the diagnostic medical sonography student with the knowledge of the abdominal vascular system to include anatomy, physiology and pathology of the aforementioned system. This course is also designed to provide an understanding of miscellaneous arterial and venous anatomic and pathological conditions related to the profession of sonography. This course educates the student on indirect physiological testing of the vascular system as well. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129. Parallel: DMS 131, 132, 134, 139. Open only to sonography students.

## Ultrasound Physics II - DMS 134 (49.5 lecture hours, 0 lab hours, 3 credits)

This course is a continuation of Ultrasound Physics I and allows the diagnostic medical sonography student to develop a fundamental knowledge of the physical and vascular principles that are used in the field of diagnostic medical sonography. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129. Parallel: DMS 131, 132, 133, 139. Open only to sonography students.

## Clinical Practicum II - DMS 139 (304 clinical hours, 6.5 credits)

This course is a continuation of Clinical Practicum I as students continue to rotate through various clinical sites. This course provides the diagnostic medical sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 16 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129. Parallel: DMS 131, 132, 133, 134. Open only to sonography students.

#### SEMESTER IV: SUMMER

## Clinical Practicum III - DMS 219 (312 clinical hours, 6.5 credits)

This course is a continuation of Clinical Practicum II as students continue to rotate through various clinical sites. This course provides the diagnostic medical sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 40 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139. Open only to sonography students.

#### SEMESTER V: FALL

## General Sonography III - DMS 221 (19 lecture hours, 21 lab hours, 1.5 credits)

This course is designed to provide the diagnostic medical sonography students an understanding of normal and abnormal conditions associated with a pediatric patient, including normal and abnormal neurological development of neonatal head and spinal cord. This course will also give the students the knowledge of the ultrasound exams performed less often, such as the peritoneal cavity, the retroperitoneum, MSK, GI Tract, abdominal wall, and Elastography. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219. Parallel: DMS 222, 223, 229. Open only to sonography students.

## OBGYN Sonography III - DMS 222 (28.5 lecture hours, 8 lab hours, 2 credits)

This course is a continuation of OBGYN Sonography II. This course is designed to provide the diagnostic medical sonography student with a thorough understanding of pathologies that can occur during fetal development and prognosis and treatment of such pathologies during pregnancy and after birth as well as medical ethics associated with pathological processes. High risk fetal development will also be taught in this course. The students will gain knowledge of the invasive procedures that are performed with ultrasound guidance. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219. Parallel: DMS 221, 223, 229. Open only to sonography students.

## Vascular Technology III - DMS 223 (23 lecture hours, 57 lab hours, 3 credits)

This course is designed to provide the diagnostic medical sonography student with the knowledge of the extracranial cerebrovascular and intracranial cerebrovascular systems to include anatomy, physiology and pathology of the aforementioned system. This course is also designed to provide knowledge of the vasculature with organ transplants. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219. Parallel: DMS 221, 222, 229. Open only to sonography students.

## Clinical Practicum IV - DMS 229 (464 clinical hours, 10 credits)

This course is a continuation of Clinical Practicum III as students continue to rotate through various clinical sites. This course provides the diagnostic medical sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 24 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219. Parallel: DMS 221, 222, 223. Open only to sonography students.

## SEMESTER VI: SPRING

## Research on Case Studies - DMS 231 (0 lecture hours, 57 lab hours, 1.5 credits)

This course allows the diagnostic medical sonography student to develop professional awareness of the knowledge that can be gained, by doing follow-up work and research on interesting cases. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219, 221, 222, 223, 229. Parallel: DMS 232, 239. Open only to sonography students.

## Registry Review - DMS 232 (21 lecture hours, 36 lab hours, 2.5 credits)

This course will review all subjects covered throughout the course of the program. The goal is to prepare diagnostic medical sonography students for taking the ARDMS registry examinations upon completion of the program. The course will also teach the students how to write a resume and how to excel in an interview. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219, 221, 222, 223, 229. Parallel: DMS 231, 239. Open only to sonography students.

## Clinical Practicum V - DMS 239 (440 clinical hours, 9.5 credits)

This course is a continuation of Clinical Practicum IV as students continue to rotate through various clinical sites. This course provides the diagnostic medical sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 24 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: DMS 111, 112, 113, 119, 121, 122, 123, 124, 129, 131, 132, 133, 134, 139, 219, 221, 222, 223, 229. Parallel: DMS 231, 232. Open only to sonography students.

## Prior Learning Credit

The Diagnostic Medical Sonography Program does not offer Prior Learning Credit.

## **Terminal Credential**

Upon completion of the program, graduates will earn the Associates of Applied Science degree from the Ascension St. Vincent College of Health Professions. After completing the program, graduates must take and pass the national certifying exam given by the American Registry of Diagnostic Medical Sonography (ARDMS) or the American Registry of Radiologic Technologists (ARRT) to gain the appropriate credentials needed to practice sonography. (see "Program Overview" herein).

## **Program Faculty**

# Program Director

Ashlie Munchel, BS RT(R), RDMS, RVT Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-2484 Email: <u>Ashlie.Munchel@ascension.org</u>

Ashlie Munchel is the Diagnostic Medical Sonography Program Director for the Ascension St. Vincent College of Health Professions. She attended IUPUI, where she has graduated with an Associate of Science degree in Radiography and a Bachelor of Science degree in Medical Imaging Technology. She is certified by the ARRT in radiography and by the ARDMS in abdominal sonography and vascular technology. Currently, she is



pursuing her Master of Science degree in Adult Education through Indiana University. She began her radiology career as a radiographer at Ascension St. Vincent Carmel Hospital in 2006 and became a sonographer in 2012. Over the last six years she has worked within IU Health and Franciscan Health as a sonographer. In 2017, she began teaching at IUPUI in the Medical Imaging Technology Program as an Adjunct Lecturer. She is excited to bring her professional experience to Ascension St. Vincent and build the sonography program within Ascension St. Vincent College of Health Professions. She has a passion for teaching and sonography and she is excited to share this passion with the sonography students.

# **General Clinical Coordinator/OB Concentration Coordinator**

Rebecca Edwards, AS, RDMS (AB)(OB/Gyn)(BR) Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-5319 Email: Rebecca.Edwards1@ascension.org

Rebecca Edwards is the Diagnostic Medical Sonography Clinical Coordinator for the Ascension St. Vincent College of Health Professions. She attended Butler University, where she graduated with an Associate of Science degree in the Allied Health Ultrasound Technology Program. She is certified by the ARDMS in abdominal sonography, obstetrical &



gynecological sonography, and breast sonography. Currently, she would like to pursue her ARDMS vascular certification. She began her career at Methodist Hospital in 1985. She has worked in the Methodist Hospital/IU Health system in both the inpatient and outpatient Radiology Departments. She has also worked PRN for Advanced Fertility Group and Riverview Health. At Methodist Hospital, Rebecca worked for several years with students who were attending the Methodist Hospital Ultrasound Add-A-Comp training program. It was here that she developed her love of teaching. Rebecca has a passion for the field of sonography and feels it is time to share her knowledge and passion with the next generation of sonographers.

## Vascular Clinical Coordinator

Sarah Maloy, MS, RT(R)(S)(CT), RVT, RDMS Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 Email: <u>Sarah.Maloy@ascension.org</u>

Sarah Maloy is the Vascular Clinical Coordinator for the Diagnostic Medical Sonography Program through Ascension St. Vincent College of Health Professions. She attended Ascension St. Vincent Health/Ascension St. Joseph Hospital Radiography program where she completed her radiography certification. She went on to receive her Bachelor of Science in Medical Imaging focusing on Sonography at Indiana University Kokomo followed by receiving her Master of Science degree in Management through Indiana Wesleyan University. She is board certified through the



American Registry of Radiologic Technologists in radiography, computed tomography and general ultrasound. She also received her vascular ultrasound certification through the American Registry of Diagnostic Medical Sonographers. She has worked at Logansport Memorial Hospital for over fifteen years and over nine years cumulatively at Ascension St. Vincent Kokomo in medical imaging. She developed her love of teaching working with medical imaging and sonography students at both locations. She loves what she does and wants to share her knowledge and passion to future students wanting to develop a career in medical imaging.

## **Instructional Faculty**

Brock Monroe, AS, ACS, RCS, RVS Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-2484 Email: <u>Robert.Monroe@ascension.org</u>

Brock Monroe is the Clinical Coordinator/Co-Manager of the Cardiac Sonography Program for the Ascension St. Vincent College of Health Professions. He attended Indiana University Wesleyan where he graduated with an Associate of Science degree in Business. He is registered in adult echocardiography (RCS), vascular ultrasound (RVS), advanced cardiac



sonography (ACS) and cardiovascular technology (CCT) through Cardiovascular Credentialing International. Currently, he would like to pursue certification in pediatric echocardiography. He began his career in medical sonography at Premier Healthcare (now Indiana University Health) in 2002 performing echocardiograms before training in vascular in 2004. He became the first sonographer at Premier Healthcare to be registered in both cardiac and vascular modalities. In 2014, he furthered his career at Community Health Network as an echo technologist before becoming the quality coordinator of all the echocardiography labs in Community's Indianapolis network. He has a passion for mentoring and teaching and is looking forward to giving back to a new generation of sonographers.

# Section X

# **Cardiac Sonography Program**

## **Program Overview**

Ascension St. Vincent Cardiac Sonography Program is an eighteen month (76 instructional weeks), fulltime residential education program covering the art and science of cardiac sonography (or cardiac ultrasound technology). Cardiac Sonography (echocardiography) is one of several fields of medicine involving diagnostic imaging examinations that are interpreted by a cardiologist. These fields collectively are referred to as medical imaging. Sonographers (or Ultrasound Technologists) are educated in anatomy, patient positioning, examination techniques, equipment protocols, ultrasound safety, and basic patient care. Sonographers work in a variety of areas of Medical Imaging including cardiac sonography, general sonography, obstetrics and gynecology sonography, vascular sonography and pediatric sonography. Sonographers with advanced degrees may also work in hospital management, education, or sales / marketing. Sonographers work in a variety of settings, including hospitals, clinics, physician offices, and mobile units. To learn more about sonography and related fields in medical imaging, visit http://www.ardms.org/Discover-ARDMS/Students/Pages/Resources-for-Students.aspx

Individuals interested in the program must submit an application to be considered for acceptance into the program. If selected, classes begin in June, with graduation occurring 18 months later in December. Since the program has limited student capacity, selection into the program is competitive. Not every applicant who applies to the program will be selected. To learn more about the selection process, see "Admissions" in this section.

The Cardiac Sonography Program offers a residential curriculum that consists of both intensive classroom education and hands-on clinical training. Enrolled students are engaged in clinical or classroom activities on-site five days per week. All classroom education and clinical training is conducted within the Ascension St. Vincent system.

The Cardiac Sonography Program will be pursuing accreditation once the first class starts in June of 2021.

To be able to be credentialed as a sonographer through the **American Registry of Diagnostic Medical** 



**Sonography (ARDMS)**, the student must pick from one of the following prerequisites as written on the ARDMS website, ARDMS General Prerequisites. The student must pass the ARDMS Sonography Principles and Instrumentation (SPI) exam and the specialty echocardiography exam (RDCS) to be credentialed as a cardiac sonographer through the ARDMS\*.

**<u>Pathway 1</u>** (Prerequisite 1): Completion of a single two-year allied health education program that is patient- care related.

• Note: If you are using your diagnostic medical sonography program for the educational requirement, you still have to document an additional 12 months of full-time clinical ultrasound/vascular experience earned outside the two-year program.

Pathway 2 (Prerequisite 2): Graduate from an accredited sonography program

**Pathway 3** (Prerequisite 3A): Currently hold a bachelor's degree (any major) or foreign degree equivalent to a bachelor's degree in the U.S. or Canada.

<u>Pathway 4</u> (Prerequisite 5): Must hold one of the following active credentials: Sonography, Vascular Sonography or Breast Sonography through American Registry of Radiologic Technologists (ARRT).

\*CCI (Cardiovascular Credentialing International does offer an option to sit for boards if pathways above cannot be met. Please visit our website for more information. <u>https://www.stvincent.org/Medical-Education/Echocardiography</u>



## Job Overview

Cardiac Sonographers, or Cardiac ultrasound technologists, work under the direction of a cardiologist or other qualified physician to perform medical imaging procedures on patients for diagnosis. Sonographers work in a variety of settings including hospitals, walk-in clinics and physician offices. In hospital settings, sonographers perform medical imaging procedures in the medical imaging department, emergency department (ER), surgery, and bedside in patient rooms and critical care units.

During the performance of sonographic procedures, sonographers must communicate with and provide care to patients of all ages and in all physical conditions. Sonographers manipulate sonographic and patient care equipment to accurately demonstrate anatomical structures on medical images and to provide quality care. Sonographers work frequently with computer systems to enter patient information and produce digital sonographic images.



Sonographers must be able to take direction from physicians and management and yet operate independently within the scope of practice and state and federal regulations. Sonographers use critical thinking in adapting sonographic examinations to unique circumstances and in assessing medical images for appropriate image quality and corrective actions, if needed. Sonographers must be

emotionally stable to perform sonographic examinations on patients under difficult circumstances.

# **Essential Skills and Abilities**

To competently practice sonography, sonographers must possess the following skills and abilities:

- 1. Physical/Motor Skills
  - Stand and walk for extended periods of the time
  - Perform physically strenuous tasks including raising patients in bed, maneuvering patients to and from tables/stretchers and carrying or maneuvering equipment
  - Rise from a seated position without assistance
  - Twist and bend at the waist
  - Extend the hands and arms in any direction
  - Hold, grasp and turn objects with the hands
  - Reach your hands above your head
- 2. Sensory Abilities
  - Correctable near vision to 20 / 40 in at least one eye

- Correctable far vision to 20 / 40 in at least one eye
- Depth perception
- Distinguish colors
- Hear audible speech (e.g. person-to-person communication) at 10 feet
- Hear speech when lips are not visible (e.g. wearing a surgical mask)
- Hear auditory alarms (e.g. patient monitors, fire alarms)
- Hear speech over a telephone
- Detect odors such as smoke, alcohol, noxious gasses
- 3. Communication Abilities
  - Read documents in English
  - Write legibly in English
  - Speak fluently in English
  - Understand speech in English
  - Adapt verbal communication to patient/visitor limitations (e.g. hearing loss, pediatrics, diminished mental capacity)
- 4. Emotional and Behavior Skills
  - Willingness to take directions
  - Be self-directed and assertive
  - Provide emotional support to others in distress
  - Adapt to a changing environment
  - Monitor own emotional state
  - Manage frustration appropriately
  - Accept responsibility for own errors or shortcomings
  - Express emotions in a socially acceptable manner
  - Respect interpersonal boundaries
  - Manage interpersonal and organizational conflicts in a respectful and professional manner
- 5. Intellectual Abilities
  - Recall information with reasonable accuracy
  - Recognize cause and effect relationships
  - Anticipate/plan ahead for activities or situations
  - Perform tasks in a logical and efficient sequence
  - Prioritize competing tasks
  - Problem solve when the solution is not self-evident
  - Use visual/spatial processing in evaluating sonographic images
  - Demonstrate attention to detail
  - Evaluate own performance to determine corrective actions when appropriate

Ascension St. Vincent does not discriminate on the basis of disability as determined by the American with Disabilities Act (ADA). Physical/motor skills, sensory abilities, and communication skills are not assessed during the selection phase of the admissions process. Emotional/behavioral skills and intellectual abilities are assessed during the selection phase of the admissions process as they relate to a candidate's academic record and ability to communicate effectively in English during a personal interview.



## **Program History**

The cardiac sonography concentration enrolled the first student cohort in June of 2021. However, the cardiac sonography concentration was years in the planning. Brock Monroe, cardiac sonography comanager, joined Ascension St. Vincent as the co-manager and principal instructor in 2020.

## **Mission Statement**

Our Mission is to make a positive difference in the lives and health delivery status of our students, the people we serve, and the community. This is accomplished through a commitment of excellence by our faculty and staff, Advisory Board, and the sponsoring institutions in the delivery of quality training and education opportunities in medical imaging sciences. We will display compassion and dignity to all. Our paradigms will be open to all aspects of education that do not violate the Mission or Core Values of our sponsoring and affiliated institutions.

# **Facilities**

All sonography education occurs within the Ascension St. Vincent network. The Sonography Program has a dedicated classroom at Ascension St. Vincent Indianapolis Hospital where all students will have didactic classes. The Ascension St. Vincent Indianapolis Hospital sonography scan lab has two patient carts and two ultrasound machines for practicing. Students will scan each other in a supervised scan lab to gain practice on the material taught in the classroom and seen during clinical rotations.

Clinical education occurs at hospitals throughout Ascension St. Vincent. All Ascension St. Vincent hospitals have a variety of medical imaging equipment that students will use under supervision for performing sonographic procedures on actual patients, practicing sonographic positioning concepts and performing "laboratory" assignments to better understand theoretical concepts and scanning techniques. More information is found in this section under "Clinical Externships." More information about Ascension St. Vincent hospitals and medical imaging services provided can be found at <u>www.stvincent.org</u>.

# **Program Goals and Outcomes**

The Cardiac Sonography Program is committed to offering the highest quality education in medical imaging available. That commitment is carried out through the educational process and through the performance standards students are expected to meet. To measure the effectiveness of the education process, the Sonography Program has established broad Goals and specific Outcomes, which are the foundation of a comprehensive Assessment Plan that details how these Goals and Outcomes are assessed annually. The Sonography Program Assessment Plan can be found online at http://www.stvincent.org/education/sonography/.

# Goal 1: Students will be clinically competent.

- 1.1. Students will produce sonographic images of diagnostic quality.
- 1.2. Students will produce sonographic images demonstrating the ALARA principle.

1.3. Students will produce sonographic images demonstrating appropriate anatomical identification.

1.4. Students will be able to analyze sonographic images for quality.

## Goal 2: Students will demonstrate the ability to critically think.

2.1. Students will be able to analyze sonographic images for quality.

## Goal 3: Students will communicate effectively.

- 3.1. Students will demonstrate written communication skills.
- 3.2. Students will demonstrate verbal communication skills.

## Goal 4: Students will model professionalism.

- 4.1. Students will display a professional attitude in daily practice.
- 4.2. Students will demonstrate professional behaviors in daily practice.
- 4.3. Graduates will demonstrate professional behaviors in daily practice.

## Goal 5: Student will provide quality patient care.

- 5.1. Students will provide quality patient care in daily practice.
- 5.2. Students will recognize and demonstrate understanding of behavioral and communication characteristics of patients across the age continuum

# Goal 6: The program will prepare students to challenge the ARDMS/CCI specialty credentialing exam.

- 6.1. An adequate % of program graduates will successfully pass the ARDMS/CCI adult echo specialty examination on the first attempt upon graduation.
- 6.2. Program graduates will demonstrate *overall* mastery on the ARDMS/CCI adult echo specialty exam.

# Goal 7: The program will maintain a positive learning environment.

- 7.1. Students will express satisfaction with clinical education sites.
- 7.2. Students will express satisfaction with academic courses.
- 7.3. Graduating students will express overall satisfaction with the program prior to graduation.
- 7.4. Alumni will express overall satisfaction with the program quality

# **Goal 8:** The program will demonstrate a positive effect on the community.

- 8.1. Students will graduate from the program.
- 8.2. Program graduates actively seeking employment will be gainfully employed.
- 8.3. Employers of program graduates will express overall satisfaction with graduate quality.

# Goal 9: The program will prepare competent entry-level cardiac sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains.

# Program Outcome Results

There are currently no program outcome results available. The first cohort enrolled in June of 2021 and will complete the program in December 2022.

# **Clinical Externships**

In addition to on-site didactic (classroom) education, enrolled students learn to apply sonographic concepts in clinical settings. All clinical education is conducted through the Ascension St. Vincent system.

The two clinical education sites in the Cardiac Sonography Program are listed below. Each clinical site will provide experience in outpatient and inpatient rotations allowing students to rotate through four different clinical rotations.

- Ascension St. Vincent Hospital, 2001 West 86<sup>th</sup> Street, Indianapolis, IN (Inpatient rotation)
- Ascension St. Vincent, 8333 Naab Road, Indianapolis, IN (Outpatient rotation)
- Ascension St. Vincent Heart Center, 10580 North Meridian Street, Indianapolis, IN (Inpatient rotation)
- Ascension St. Vincent Heart Center Medical Office Building, Carmel, IN (Outpatient rotation)
- Ascension St. Vincent Hospital Anderson, 2015 Jackson Street Anderson, IN
- Ascension St. Vincent Hospital Kokomo, 1907 W. Sycamore Street, Kokomo, IN
- Ascension St. Vincent Hospital Fishers, 13861 Olio Road, Fishers, IN 46037



## **Admissions**

Ascension St. Vincent Cardiac Sonography Program provides equal opportunity to all applicants. The program is selective in its admissions practices and evaluates applicants based on merit without discrimination on the basis of age, race, religion, creed, color, national origin, marital status, gender, disability, veteran status, sexual orientation, or any other legally protected status. The program selects one class annually based on requirements and preference categories listed herein.

## Application Procedure

To be considered for admission into the Cardiac Sonography Program, an application must be submitted. In addition to the College admission requirements described in Section III, Sonography Program applicants must also attend a mandatory pre-admission conference during the year of application. The application and admission conference dates, locations and times can be found on the sonography program website at <u>https://medicaleducation.ascension.org/indiana/st-vincent-cardiac-sonographyprogram</u>.

## Admission Requirements

To be accepted in the program, the applicant must meet the following requirements:

- 1. Be 18 years of age by June 1 of the year applying for enrollment.
- 2. Be a citizen of the United States or permanent "green card" legal resident.
- 3. Have a minimum college GPA of 2.50 (4.00 scale) on <u>all</u> college academic work.
- Complete at least <u>3</u> credit hours in <u>Algebra, Statistics or higher mathematics course</u> by <u>June 1</u> of the enrollment year.
- 5. Complete at least <u>3</u> credit hours in <u>general college-level physics and/or radiographic</u> <u>physics</u> by <u>June 1</u> of the enrollment year.
- Complete at least <u>3</u> credit hours in <u>Communication Skills</u> (The communication skills requisite may be met by a variety of courses including, English, speech or composition) by <u>June 1</u> of the enrollment year.
- 7. Complete at least <u>5</u> credit hours in <u>Human Anatomy and Physiology</u> by <u>June 1</u> of the enrollment year.
- 8. Complete at least <u>1</u> credit hour in <u>Medical Terminology</u> by June <u>1</u> of the enrollment year.
- 9. All general education courses must be 100 level or higher courses.
- 10. The above coursework must be from regionally accredited institutions.
- 11. All of the above courses must be completed with a letter grade of "C" or better.
- 12. Application to the Cardiac Sonography Program
- 13. Narrative, signed and dated, that addresses the following:
  - Explain why you want to be a cardiac sonographer
  - Describe what you believe are essential traits of a cardiac sonographer
  - List your long-term career goals
- 14. Attend mandatory pre-admission conference during the year of application

# Preferences

All candidates who meet minimal requirements are encouraged to apply to the program. Because the selection process is competitive, not all applicants who meet minimal admission requirements will be selected into the program. All qualified candidates will be evaluated for consideration based on merit utilizing the program's established screening process. Preference will be given to candidates who, at the time of application, have earned a bachelor's degree in any discipline from a regionally accredited institution.

## **Bankruptcy Appeal**

For a variety of reasons, there are some individuals whose overall college GPA is adversely affected by a period of poor academic performance, such that their overall GPA is not an accurate indication of their true academic abilities. Many of these same students have subsequently demonstrated the ability to achieve academic success. The bankruptcy policy allows individuals to exclude an earlier portion of their academic record while still receiving credit for having passed prerequisite courses so that the GPA considered by the program faculty more accurately reflects the student's true academic abilities. The policy does not allow individuals to pick and choose poor classes or semesters, but instead allows an individual to convey, "that was me then, but this is what I am capable of now." If you feel that this policy would benefit you, we encourage you to submit your appeal.

Applicants may request in writing to the program director that college grades prior to a specified date <u>not</u> be factored into the calculation of an overall college GPA and therefore <u>not</u> be considered as part of the selection criteria provided the following criteria are met:

- The applicant must make the request in writing and include the college(s) attended and dates of attendance to be bankrupted.
- The applicant must include a rationale why the original GPA should be bankrupted and what the applicant did to improve his/her academic performance since the bankruptcy date.
- The request must be signed and dated.
- The applicant must have completed and maintained at least a 2.50 / 4.00 cumulative GPA on at least 12 credit hours of 100 level courses following the date of requested bankruptcy.

If approved, <u>all</u> academic grades prior to the bankruptcy date will not be considered toward the calculated GPA. However, all courses passed with a letter grade of "C" or higher regardless of bankruptcy will still be counted toward meeting the program's general education requirements.

The program faculty will review each bankruptcy request and render a decision based on the merits of each request individually. Transcripts of all academic work must still be submitted as indicated earlier.

## **Foreign Educated Applicants**

Applicants educated in foreign countries are welcomed to apply to the program. However, candidates must have completed all the program's general education requirements through regionally accredited American colleges and universities. No foreign academic work will be considered toward the general education requirements. Foreign transcripts or the equivalent domestic evaluation of foreign transcripts (ECE, for example) are not required.

## Selection Procedure

Applications are initially reviewed for completeness of required documents. Only members of the program faculty will review application files for minimal requirements and scoring. Only applications meeting minimal requirements will be considered for admission. Applications are scored using an established and approved score sheet. The program reserves the right to reject candidates who have been interviewed and rejected twice (not including alternate status).

Of the applicants who attend the Pre-Admission Conference, a pre-determined number of applicants will be invited to attend a personal interview. Interviews will be conducted by program faculty, medical imaging managers and sonographers within Ascension St. Vincent. Interview candidates will be notified via email of their respective interview appointment.

Following each candidate's interview, a comprehensive score will be determined by the interview team. This comprehensive score is based in part on the interview itself but will also include characteristics and factors that are predictive of success in the program. Applicants will be rank ordered according to their comprehensive score. Final selection of applicants into the program will be based on the comprehensive score and represents the interview team's assessment of the overall likelihood of applicant success in the program.

## **Disclosure of Criminal History**

Students are required to disclose in a timely manner to the Program Director any criminal actions or proceedings, excluding speeding and minor traffic violations, that occur at any time during enrollment in the program. Students who disclose their criminal actions must provide details of the proceedings. If the criminal proceedings are in progress, the student is expected to provide a timeline of the court proceedings and to submit to the program the final verdict and actions. Failure to disclose a criminal action or proceedings will result in rejection of a candidate's application, revocation of conditional acceptance, or dismissal from the program if actively enrolled.

The American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI) may deny eligibility to write the certification exam to individuals who have been convicted of a felony or a misdemeanor excluding speeding and minor traffic violations. Upon disclosure of criminal proceedings, the student may be required to submit to the ARDMS or CCI a pre-eligibility application at their own expense. The student will be required to forward the decision of the ARDMS/CCI to the Program Director upon receipt of the decision. The decision of the ARDMS/CCI will be considered when determining if the student will remain enrolled in the program. Denial of pre-eligibility by the ARDMS/CCI will result in immediate termination of the student.

# **Disclosure of Professional License or Certification Suspension or Revocation**

Cardiac sonography program applicants are required to disclose if they have ever had a professional license or certification suspended or revoked by any certifying agency or governing body. Applicants must provide details of the suspended or revoked professional license or certification as directed in the application. Failure to disclose a suspended or revoked professional license or certification will result in denial of consideration or withdrawal of conditional acceptance. Ascension St. Vincent reserves the right to deny acceptance or rescind conditional acceptance to any individual history of suspended or revoked professional license.

# Satisfactory Academic Progress

Students are required to maintain satisfactory academic progress to remain enrolled in the Cardiac Sonography Program. This includes meeting the published grading criteria, attendance standards, or professional standards. On occasion, it becomes necessary to delay completion of the program due to completion of program requirements, medical leave, or other situations. A delay in academic progression, however, cannot exceed 150% of the normal program length.

The Cardiac Sonography Program adheres to the Academic Progress Standards in Section IV and follows the College grading unless otherwise noted in the course syllabus.

Additionally, the Cardiac Sonography Program follows a mastery-based approach to academic performance expectations. The program requires a minimum score to be achieved (80.0% for most written lecture tests, 75.0% for clinical competency evaluation) before the student can be considered to have "mastered" the material. Failure to achieve this minimum score will result in the student being required to repeat the exam/assessment for a capped maximum score. Failure to achieve the minimum passing score after the third attempt will result in remediation of the material and either probation or dismissal from the program depending on the situation. Further information regarding program academic progress expectations are included the Student Handbook made available to the student on the first day of class or may be obtained by contacting the Cardiac Sonography Program Director.

## **Graduation Requirements**

Sonographers are highly skilled professionals qualified by education to perform imaging examinations and accompanying responsibilities at the direction of a physician qualified to request radiologic procedures. To that end, for the safety and well-being of patients and the community in general, it is the policy of Cardiac Sonography Program to assure that all graduates entering to profession of sonography have met the rigorous requirements for graduation, thus enabling their eligibility to sit for the American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI) board examination.

To be eligible for graduation, the following requirements must be met.

# Competent Practice

- 1. Apply knowledge of anatomy, physiology and positioning to competently and accurately demonstrate anatomical structures on a sonographic image.
- 2. Apply knowledge of physics instrumentation to achieve the best diagnostic quality sonographic images possible.
- 3. Evaluate sonographic images for appropriate positioning and overall image quality.
- 4. Apply problem solving and critical thinking skills in the academic and clinical settings.

# <u>Safety</u>

- 5. Apply principles of ultrasound safety to patients, self and others.
- 6. Apply knowledge of physics instrumentation to adhere to the ALARA principle.
- 7. Apply principles of infection control and standard precautions for the protection of patients, self and others.

# Patient Care

- 8. Provide basic patient care and comfort to patients across the age continuum.
- 9. Recognize emergency patient conditions and initiate lifesaving first-aid and basic life-support procedures.

# Professional Practice

- 10. Recognize when sonographic equipment is not operating properly and report equipment malfunctions to the proper authority.
- 11. Demonstrate understanding of the role quality assurance and continual quality improvement play in medical imaging.
- 12. Demonstrate effective verbal, non-verbal and written medical communication in providing patient care and maintaining professional relationships with other members of the health care team.
- 13. Exercise independent judgment and discretion in the technical performance of medical imaging procedures.
- 14. Comply with the profession's Code of Ethics and Practice Standards and perform clinically within the industry's standard of care.
- 15. Develop professionally beyond the program's clinical and academic performance expectations (see Professional Development policy).

# **Qualifications**

- 16. Pass the Sonography Principles and Instrumentation board examination through the ARDMS.
- 17. Demonstrate ARDMS/CCI board examination readiness in the specialty exam (Echocardiography).

# **Evidence of Eligibility**

Prior to graduation, each student will meet with the Program Director or designee to evaluate eligibility for graduation against the graduation requirements.

# **Early Graduation**

The program does not allow for early graduation. All students will graduate on or after their scheduled date of graduation.

# Cardiac Sonography Program Curriculum

General Education (Transferred in)								
Course Code	Course Title	Credits	Course Code	Course Title	Credits			
NA	Algebra, Statistics or Higher Math	3	NA	Medical Terminology	1			
NA	Gen. Physics or Radiographic Physics	3						
NA	Communication Skills	3						
NA	Human Anatomy and Physiology	5						

Summer Semester I							
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits		
ECH 111	Introduction to Cardiac Sonography	16	16	0	1.5		
DMS 112	Patient Care	24	9	0	1.5		
DMS 113	Fundamentals of Ultrasound	16	0	0	1		
ECH 119	Clinical Observation	20	0	64	2.5		
	Total	76	25	64	6.5		
Fall Semester II							
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits		
ECH 121	Cardiac Sonography I	57	57	0	5.5		
DMS 124	Ultrasound Physics I	47.5	0	0	3		
ECH 129	Clinical Practicum I	0	0	312	6.5		
Total 104.5 57 312							
Spring Semester III							
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits		
ECH 131	Cardiac Sonography II	74	74	0	7		
DMS 134	Ultrasound Physics II	45	0	0	3		
ECH 139	Clinical Practicum II	0	0	304	6.5		
	Total 119 74 304						
	Summer Se	mester IV					
Course Code	Course Title	Lecture Hours	Lab Hours	<b>Clinical Hours</b>	Credits		
ECH 219	Clinical Practicum III	0	0	304	6.5		
	Total 0 0 304						
	Fall Seme	ester V					
Course Code	Course Title	Lecture Hours	Lab Hours	Clinical Hours	Credits		
ECH 221	Research on Case Studies	0	57	0	1.5		
ECH 222	Registry Review	40	20	0	3		
DMS 229	Clinical Practicum IV	0	0	464	10		
Total 40 77 464					13.5		
Program Total 339.5 233 1448					58		
General Education Credits Required					15		
Total Credits Required					73		

# Prior Learning Credit

The Cardiac Sonography Program does not offer Prior Learning Credit.

## **Course Descriptions**

#### **SEMESTER I: SUMMER**

#### Introduction to Cardiac Sonography - ECH 111 (16 lecture hours, 16 lab hours, 1.5 credit hours)

This course provides the cardiac sonography student with the knowledge and understanding of ultrasound terminology involved in all aspects of echocardiography. This course provides the student with a basic understanding of the cardiovascular system and cardiac anatomy. This course provides the student with the basic knowledge and understanding of the cardiac vessels, valves and cardiac blood flow. This course provides the student with a basic understanding of cardiovascular physiology and its underlying components. This course provides the student with an introduction to the complete transthoracic echocardiogram. This course contains educational objectives, learning activities and scan labs directed toward aiding the student in obtaining this goal. Parallel: <u>DMS 112, DMS 113, ECH 119</u>. Open only to Cardiac Sonography students.

#### Patient Care - DMS 112 (24 lecture hours, 9 lab hours, 1.5 credits)

This course provides the cardiac sonography student with the basic concepts of patient care including consideration for the physical and psychological needs of the patient. Some topics to be covered include: Safety and transport of a patient, infection control, isolation techniques, aseptic technique, handling acute situations, pharmacology, emergency recognition and response, and vital signs. This is a time for the students to develop their own patient care techniques while developing an understanding of body mechanics, patient assessment techniques, ethical, legal, and professional issues. This course contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Parallel: <u>ECH 111, DMS 113, ECH 119</u>. Open only to sonography students.

#### Fundamentals of Ultrasound - DMS 113 (16 lecture hours, 0 lab hours, 1 credit)

This course is designed to provide the cardiac sonography student with an understanding of work-related musculoskeletal injury, incidence of sonographer injuries, and prevention of such injuries by following proper ergonomic guidelines. This course will also provide the student with knowledge of and the importance of professional development and continuing education within the field of Cardiac Sonography. The student will be able to discuss and define the use of Information Technology within the field of Radiology. This course will also give the student a good understanding of Medical Ethics and Law as it pertains to the Patient's Bill of Rights and the Health Insurance Portability and Accountability Act (HIPAA). Parallel: <u>ECH 111, DMS 112, ECH 119</u>. Open only to sonography students.

## Clinical Observation - DMS 119 (20 lecture, 64 clinical hours, 2.5 credits)

This course provides the cardiac sonography student with an introduction to sonographic anatomy, sonographic scanning, and patient care. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Parallel: <u>ECH 111, DMS 112, DMS 113</u>. Open only to Cardiac Sonography students.

#### SEMESTER II FALL

## Cardiac Sonography I- ECH 121 (57 lecture hours, 57 lab hours, 5.5 credits)

This course provides the cardiac sonography student with the knowledge and understanding of the comprehensive transthoracic echocardiogram including all modalities, measurements and pertinent equations. This course provides the student with a review of normal cardiac blood flow and an introduction and understanding of abnormal cardiac blood flow, assessment of cardiac systolic and diastolic function and associated cardiac pathology. This course provides the student the knowledge and understanding of the cardiac cycle including Wiggers diagram. This course provides the knowledge and understanding of valvular heart disease and a review of valvular anatomy and function. This course contains educational objectives, learning activities and scan labs directed toward aiding the student in obtaining this goal. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119.</u> Parallel: <u>DMS 124, DMS 129</u>. Open only to Cardiac Sonography students.

## Ultrasound Physics I - DMS 124 (47.5 lecture hours, 0 lab hours, 3 credits)

This course allows the cardiac sonography student to develop a fundamental knowledge of the physical and vascular principles that are used in the field of cardiac sonography. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119</u>. Parallel: <u>ECH 121, ECH 129</u>. Open only to sonography students.

## Clinical Practicum I - ECH 129 (312 clinical hours, 6.5 credits)

This course has students rotate through various clinical sites. This course provides the cardiac sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer.

Students will be assigned approximately 16 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: ECH 111, DMS 112, DMS 113, ECH 119. Parallel: ECH 121, ECH 124. Open only to Cardiac Sonography students.

#### SEMESTER III; SPRING

## Cardiac Sonography II- ECH 131 (74 lecture hours, 74 lab hours, 6.5 credits)

This course provides the cardiac sonography student with a comprehensive knowledge and understanding of valvular heart disease, pertinent advanced measurements and equations. The course provides the student with knowledge and understanding of the most commonly seen adult congenital and pediatric heart disease including pertinent echocardiographic assessments. This course provides knowledge and understanding of cardiac abnormalities including background and echocardiographic assessments. This course provides knowledge and understanding of the use of echocardiography in stress testing, three-dimensional assessment, speckle tracking, cardio-oncology, cardiac transplant and others. This course provides knowledge and their relationship to echocardiographic findings. This course provides a basic knowledge of cardiovascular pharmacology. This course contains educational objectives, learning activities and scan labs directed toward aiding the student in obtaining this goal. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129</u>. Parallel: <u>DMS 134, ECH 139</u>. Open only to Cardiac Sonography students.

## Ultrasound Physics II - DMS 134 (45 lecture hours, 0 lab hours, 3 credits)

This course is a continuation of Ultrasound Physics I and allows the cardiac sonography student to develop a fundamental knowledge of the physical and vascular principles that are used in the field of cardiac sonography. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: <u>ECH 111,</u> <u>DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129</u>. Parallel: <u>ECH 131, ECH 139</u>. Open only to sonography students.

## Clinical Practicum II - ECH 139 (304 clinical hours, 6.5 credits)

This course is a continuation of Clinical Practicum I as students continue to rotate through various clinical sites. This course provides the cardiac sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 16 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129</u>. Parallel: <u>ECH 131, DMS 134</u>. Open only to Cardiac Sonography students.

## SEMESTER IV: SUMMER

## Clinical Practicum III - ECH 219 (304 clinical hours, 6.5 credits)

This course is a continuation of Clinical Practicum II as the student will continue to rotate through various clinical sites. This course provides the cardiac sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 40 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129, ECH 131, DMS 134, ECH 139</u>. Open only to Cardiac Sonography students.

## SEMESTER V: FALL

## Research on Case Studies - ECH 221 (0 lecture hours, 57 lab hours, 1.5 credits)

This course allows the cardiac sonography student to develop professional awareness of the knowledge that can be gained, by doing follow-up work and research on interesting cases. This course unit contains educational objectives and learning activities directed toward aiding the student in obtaining this goal. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 129, ECH 121, DMS 124, ECH 129, ECH 131, DMS 134, ECH 139, ECH 219</u>. Parallel: <u>ECH 222, ECH 229</u>. Open only to Cardiac Sonography students.

## Registry Review - ECH 222 (40 lecture hours, 20 lab hours, 3 credits)

This course will review all subjects covered throughout the course of the program. The goal is to prepare the cardiac sonography student for taking the ARDMS and/or CCI registry examinations upon completion of the program. The course will also teach the students how to write a resume and how to excel in an interview. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129, ECH 131, DMS 134, ECH 139, ECH 219</u>. Parallel: <u>ECH 221, ECH 229</u>. Open only to Cardiac Sonography students.

## Clinical Practicum IV – ECH 229 (464 clinical hours, 10 credits)

This course is a continuation of Clinical Practicum III as students continue to rotate through various clinical sites. This course provides the cardiac sonography student with the clinical opportunity to develop their scanning techniques and patient care skills with the guidance of a staff sonographer. Students will be assigned approximately 24 clinical hours per week. Students will perform competency exams as required by the syllabus. Prerequisites: <u>ECH 111, DMS 112, DMS 113, ECH 119, ECH 121, DMS 124, ECH 129, ECH 131, DMS 134, ECH 139, ECH 219.</u> Parallel: <u>ECH 221, ECH 222</u>. Open only to Cardiac Sonography students.

## **Terminal Credential**

The Cardiac Sonography Program will award graduates with an Associates in Applied Science degree in Cardiac Sonography upon completion of the program. After completing the program, graduates must take and pass the national certifying exam given by the American Registry of Diagnostic Medical Sonography (ARDMS) or Cardiovascular Credentialing International (CCI) to gain the appropriate credentials needed to practice sonography. (see "Program Overview" herein).

## Program Faculty

## Cardiac Sonography Co-Manager and Clinical Coordinator

Brock Monroe, AS, ACS, RCS, RVS Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-2484 Email: Robert.Monroe@ascension.org

Brock Monroe is the Clinical Coordinator/Co-Manager of the Cardiac Sonography Program for the Ascension St. Vincent College of Health Professions. He attended Indiana University Wesleyan where he graduated with an Associate of Science degree in Business. He is registered in adult echocardiography (RCS), vascular ultrasound (RVS), advanced cardiac sonography (ACS) and cardiovascular technology (CCT) through



Cardiovascular Credentialing International. Currently, he would like to pursue certification in pediatric echocardiography. He began his career in medical sonography at Premier Healthcare (now Indiana University Health) in 2002 performing echocardiograms before training in vascular in 2004. He became the first sonographer at Premier Healthcare to be registered in both cardiac and vascular modalities. In 2014, he furthered his career at Community Health Network as an echo technologist before becoming the quality coordinator of all the echocardiography labs in Community's Indianapolis network. He has a passion for mentoring and teaching and is looking forward to giving back to a new generation of sonographers.

# Diagnostic Medical Sonography Program Director/Cardiac Sonography Co-Manager

Ashlie Munchel, BS RT(R), RDMS, RVT Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-2484 Email: Ashlie.Munchel@ascension.org

Ashlie Munchel is the Diagnostic Medical Sonography Program Director for the Ascension St. Vincent College of Health Professions. She attended IUPUI, where she has graduated with an Associate of Science degree in Radiography and a Bachelor of Science degree in Medical Imaging Technology. She is certified by the ARRT in radiography and by the ARDMS in abdominal



sonography and vascular technology. Currently, she is pursuing her Master of Science degree in Adult Education through Indiana University. She began her radiology career as a radiographer at Ascension St. Vincent Carmel Hospital in 2006 and became a sonographer in 2012. Over the last six years she has worked within IU Health and Franciscan Health as a sonographer. In 2017, she began teaching at IUPUI in the Medical Imaging Technology Program as an Adjunct Lecturer. She is excited to bring her professional experience to Ascension St. Vincent and build the sonography program within Ascension St. Vincent College of Health Professions. She has a passion for teaching and sonography and she is excited to share this passion with our first class of sonography students.

# **General Clinical Coordinator/OB Concentration Coordinator**

Rebecca Edwards, AS, RDMS (AB)(OB/Gyn)(BR) Ascension St. Vincent Indianapolis Hospital 2001 W. 86th Street Indianapolis, IN 46260 (317) 338-5319 Email: <u>Rebecca.Edwards1@ascension.org</u>

Rebecca Edwards is the Diagnostic Medical Sonography Clinical Coordinator for the Ascension St. Vincent College of Health Professions. She attended Butler University, where she graduated with an Associate of Science degree in the Allied Health Ultrasound Technology Program. She is certified by the ARDMS in abdominal sonography, obstetrical &



gynecological sonography, and breast sonography. Currently, she would like to pursue her ARDMS vascular certification. She began her career at Methodist Hospital in 1985. She has worked in the Methodist Hospital/IU Health system in both the inpatient and outpatient Radiology Departments. She has also worked PRN for Advanced Fertility Group and Riverview Health. At Methodist Hospital, Rebecca worked for several years with students who were attending the Methodist Hospital Ultrasound Add-A-Comp training program. It was here that she developed her love of teaching. Rebecca has a passion for the field of sonography and feels it is time to share her knowledge and passion with the next generation of sonographers.