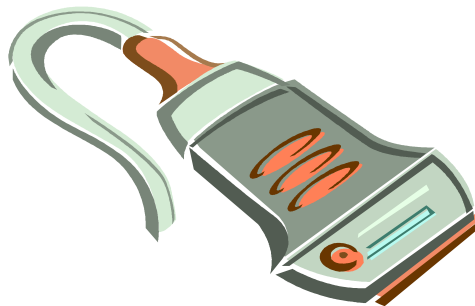


COLLEGE OF DUPAGE
**DIAGNOSTIC MEDICAL IMAGING
VASCULAR SONOGRAPHY
Certificate Program**

***Vascular Certificate applicants must be current
ARDMS or CCI credentialed Sonographers***

NOTE: This DMIS Program is undergoing program revision. Admission and/or graduation requirements are subject to change. Please monitor the program website for program updates, curriculum modifications, and/or changes in the admission packet.



Class of Spring 2022
Application Due Date: 10/14/21

Note: Please see specific program registration or admission packets for detailed information on when to begin completing health requirements, drug tests, CPR, criminal background checks and proof of insurance submission. Timing varies depending upon either entrance to or participation in the clinical component of a given program. Funds paid to Edward Corporate Health or to a personal health care provider/source, CastleBranch.com, insurance companies, and funds used towards CPR completion are not eligible for any sort of refund from College of DuPage if the required course(s) are not successfully completed and/or the applicant is not accepted into the program.

Students are not accepted into this program until they receive official acceptance letters from the College of DuPage Nursing & Health Sciences Division.

Program Information Disclaimer

The information in this packet is not to be regarded as an irrevocable contract between the student and the program. The program reserves the right to change, at any time, without notice: graduation requirements, fees, other charges, curriculum, course structure and content, and other such matters as may be within its control, notwithstanding any information set forth in this program information packet in accordance with College of DuPage policies and procedures.

Students are not accepted into this program until they receive and respond to an official acceptance letter from the College of DuPage Nursing & Health Sciences Division.

Program Admission Preference

Preference in admission is given to residents of District 502 who meet the stated minimum acceptance criteria for the program. Priority for admission is a) In-district applicants; b) Out-of-district applicants working full-time in-district (proof of in-district employment will be required each semester); and c) Out-of-district applicants including those students with a joint or chargeback agreement (if applicable) and International students.

Program Description/Introduction

Diagnostic Medical Sonography (Ultrasound) is a clinical discipline involving the use of equipment that produces sound waves that create images of human anatomy for medical interpretation and diagnosis by a Radiologist.

The Diagnostic Medical Imaging Vascular Certificate Program is designed to offer education in Vascular Sonography to Sonographers already working in the field that are ARDMS or CCI registered in Abdomen/Superficial Structures, Obstetrics/Gynecology and/or Echocardiography that graduated from an accredited sonography program.

It is a 6-month (two-semester) certificate program. Classes and clinicals are conducted on weekdays, weeknights, and/or weekends. Admission requirements are outlined in this packet. To be considered for Spring 2022 admission **all application materials must be received by the application deadline.**

Mission Statement

The primary goal of the Diagnostic Medical Imaging Vascular Sonography Certificate Program is to provide vascular sonography education to registered and practicing general (abdomen/superficial structure, obstetrics/gynecology), or echocardiography sonographers. The certificate includes didactic and clinical experience in vascular sonography. The graduate will demonstrate competency to meet certification requirements for the SPI Physics Instrumentation, and Vascular Technology boards, deliver compassionate patient care, and function as an integral member of the healthcare team with competence and confidence. Program policies and procedures have been designed to meet or exceed those established by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

Accreditation

The Diagnostic Medical Imaging Sonography Programs at College of DuPage are accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). The Standards can be found on the CAAHEP and JRC-DMS websites.

Commission on Accreditation of Allied Health Education Programs
25400 US Highway 19 North
Suite 158
Clearwater, Florida 33763
727-210-2350

Program Goals

1. “To prepare competent entry-level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.”
2. Educate competent and compassionate sonographers capable of functioning as an entry level Vascular Sonographer within 6 months
3. Provide a complete, up-to-date competency-based curriculum
4. Prepare the student to think and act independently
5. Prepare the student for entry into the ever-changing sonography work environment
6. Prepare the student to achieve a satisfactory result on the American Registry of Diagnostic Medical Sonography (ARDMS) for SPI Physics Instrumentation
7. Prepare the student to achieve a satisfactory result on the American Registry of Diagnostic Medical Sonography (ARDMS) for Vascular Technology
8. Provide comprehensive student education to aid in student retention, course and program completion

Eligibility Requirements

Sonographers that have graduated from an accredited sonography program with registration by ARDMS or CCI in Abdomen & Superficial Structures, Obstetrics & Gynecology, and/or Echocardiography are eligible to apply for admission into the College of DuPage Diagnostic Medical Imaging Vascular Sonography certificate program.

All applicants will need to provide documentation of successful completion of accreditation required coursework through official college transcripts, and current ARDMS/CCI registration.

***For those that do not meet certificate program eligibility requirements.** The didactic courses offered can be taken by anyone interested in learning about and/or improving their vascular sonography skills.

NOTE: Without clinical experience & certificate completion, students will not qualify to take the vascular technology board exam, nor will they receive a certificate from COD.

Please go to www.ardms.org for more information about vascular technology exam prerequisites.

Academic Success in the Vascular Sonography Certificate Program

All students enrolled in the Vascular Sonography certificate program must maintain a minimum of “C” or better in all courses in order to continue in the program. Receiving a “D” in any course will terminate the student’s continuation in the program. Student can reapply the following year to be considered for admission. Students requesting readmission are evaluated based upon the application guidelines for the cycle they are applying. An “F” in any vascular sonography course will negate the possibility of readmission to the vascular sonography program at College of DuPage in the future.

Prior to completion of the certificate program, the student becomes eligible to take the American Registry of Diagnostic Medical Sonographers examinations titled SPI Physics Instrumentation, and Vascular Technology. Upon successful completion of all didactic and clinical requirements the student is awarded a certificate of completion from College of DuPage.

*Reminder: Students may take the didactic portions of the certificate (classes only, no clinicals) BUT will not receive a certificate nor be eligible to sit for the Vascular Technology board exam.

Statement of Health

Prior to starting clinicals, all students in the Vascular Sonography Certificate program will need to complete health requirements, a drug screen, background check, and complete the medical document manager requirement. You will be informed by the Program Coordinator when you will need to complete your health requirements. Please do not complete these requirements until you are instructed to do so. The Health Requirements [packet is available at Health Requirement Packet and the Diagnostic Medical Imaging Sonography webpages](#). Some clinical affiliates require further testing, which is the responsibility of the student.

Students with chronic medical conditions and physical limitations are required to submit documentation of current health status relating to their specific condition. The document should include the physician's assessment as to the student's ability to meet the program objectives and standard skills in sonography, and the current medications the student is required to take for health maintenance.

Statement on Medical Care and Health Insurance

Students are responsible for their own medical care and health insurance while in the program. Students must possess health care insurance in order to train at the clinical affiliate. The student is responsible for any costs that may be incurred related to personal injuries he/she may acquire while performing activities to/from or at the clinical affiliate and/or college. The affiliating clinical facility and/or College of DuPage cannot be held liable for such injuries. Please visit the [Student Health Insurance](#) website for additional details. Students are required to provide evidence of current health insurance coverage. Please follow specific guidelines as instructed for submitting proof of insurance.

Statement on Medical Malpractice Insurance

Malpractice insurance is required and is included in the clinical education tuition costs. That is, the cost of the insurance is included with the tuition costs for DMIS 2212. Students must be officially registered and listed on the instructor's class roster to be covered by the malpractice insurance.

Statement on Drug Testing/Criminal Background Check

A drug test and Criminal Background Check are required prior to starting a clinical rotation in the Vascular Sonography Certificate program. Several clinical affiliates also require finger printing. The costs of these requirements are the responsibility of the student. You will be informed by the Program Coordinator when you will need to complete these requirements. **Please do not complete them until instructed to do so.**

Criminal Background Check Information

All health care workers and student health care workers are required to undergo a criminal background check in order to work in a clinical setting. A student with a positive background check containing disqualifying conditions as defined by Illinois State Law ([225ILCS46/25](#)) and 77 Ill Adm. Code 955 Section [955.160](#) will not be allowed to enter the clinical portion of this program, thus preventing the student from obtaining mandated certification and/or licensure.

NOTE: You may have been convicted and not sent to jail. People are often fined or given probation or conditional discharge rather than jail time, but these are still considered convictions. If you are unsure as to whether an arrest resulted in a conviction, contact the county in which you were arrested and speak to a representative in the Circuit Clerk's office, State's Attorney's office or your attorney.

Transportation

Students are required to provide their own reliable transportation to the college and clinical sites. Public transportation is often not an option due to clinical site hours and/or locations. Clinical placements are assigned by the Clinical Coordinator to meet the needs of all students and the program. Students cannot select clinical sites. Any parking fees and/or tolls are the responsibility of the student. ***In extremely rare cases clinical sites can be up to 80 miles from College of DuPage.**

Standard Skills in Sonography

To participate in the clinical education portion of the Sonography program, the applicant must possess additional non-academic skills. These technical standards are consistent with the duties of an entry-level sonographer in a professional position. The applicant must have the ability to:

- Lift and carry 30 pounds of weight
- Lift and transfer patients to and from wheelchairs, stretchers, beds, and imaging tables
- Move, adjust, and manipulate equipment to perform imaging studies
- Position patients for exams
- Respond appropriately to sounds such as the patient's voice and movements in a normal conversational volume
- Review and evaluate recorded real-time images to determine the quality of the image, as well as demonstrate visual accuracy in differentiating among subtle shades of grays used in Diagnostic Medical Sonography
- Respond appropriately to equipment signals such as sound and light
- Manipulate the necessary hospital equipment for patient care and patient imaging, such as dials, switches, push buttons, and keyboards
- Stand and perform exams for a prolonged period without breaks in a typical shift of eight to twelve hours
- Fluent communication in the English language to function effectively in the program and at clinical sites
- Position a transducer device in a back and forth manner while maintaining balance
- Communicate orally and in writing with patients, physicians, and other personnel; clearly and effectively
- Be able to follow verbal and written directions

Statement on Clinical Education

The purpose of clinical education is to provide the student with necessary patient experiences where refinement of the use of theoretical principles learned in the didactic portion of the program can take place. Students may be required to rotate through multiple clinical education centers. Students will not replace members of the affiliated clinical staff; they will have the status of students. Typically, students are not paid for clinical hours.

Please be advised that the Vascular Sonography Certificate Program follows a rigorous curriculum requiring serious student memorization, practical application of theory, coursework, and transportation to/from class and clinicals. Taking personal time off (i.e. vacations) outside scheduled breaks is not permitted and will affect program continuation.

Non-Discrimination Statement

The College prohibits discrimination in its admissions, employment, and educational programs or activities on the basis of race, color, sex, religion, creed, national origin, age, ancestry, marital status,

sexual orientation, gender identity and expression, arrest record, military status or unfavorable military discharge, citizenship status, and physical or mental disability. The College will protect an individual's right to express their viewpoint or opinion, so long as it does not violate State or Federal law and is not detrimental to the College.

This Policy against discrimination applies throughout all College environments, whether on campus, at work assignments off campus, at College-sponsored social functions, or otherwise.

Procedures to facilitate the College's prohibition of discrimination will be promulgated consistent with the Policy. (Board Policy 20-5).

Student Email Policy

College of DuPage will send all official communications to you through your official COD email (dupage.edu). You will no longer be able to use a preferred email account. You do have the option to forward these communications to a personal email account if you wish.

Check your COD email weekly for possible important information including but not limited to:

- Official COD communications
- **Possible DMIS Application Material Inquiries**
- **Possible DMIS Applicant Interview Appointment Invitation**
- **Accept/Decline/Alternate letters of decision and/or related information**
- Financial aid communications
- Petition to graduate
- Transfer credit evaluation
- Prerequisite proof Sensitive
- FERPA-related communications
- Transcript order
- Important messages from instructors

For more information on the student email policy go to:

https://cod.edu/student_life/resources/information_technology/email/email-policy.aspx

Citizenship/Visa Status

If you are not a U.S. citizen or a permanent resident of the U.S., and/or if you have any questions or concerns regarding your eligibility to participate in health sciences programs, please contact the **International Student Office**, SSC 2225, (630) 942-3328, e-mail: intlstdt@cod.edu.

Qualified applicants will be considered out-of-district in the admissions ranking process if they are **not** a:

- U.S. citizen
- Permanent resident

Application Materials Checklist

NOTE: Admission Committees for Health Science programs have the right to deny admission to any applicant that they feel is unable to fulfill the essential functions as described in this packet.

**It is the applicant's responsibility to ensure that all application requirements have been completed and received by the designated office, by the application deadline.*

***Please email the DMIS Program Coordinator Melissa McKirdie with any questions regarding application to this program – mckirdiem@cod.edu**

To be considered for admission into the Vascular Sonography Certificate program:

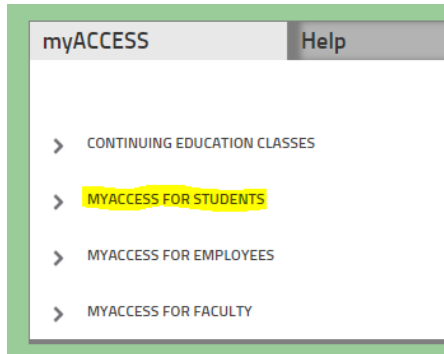
- _____ 1. Attend a highly recommended **Vascular Sonography [Advising Session](#)**. Please click on the PDF link below as it contains upcoming dates/times that we will be doing via ZOOM. You do not register to attend or you can view our [Advising Session PowerPoint](#).
- _____ 2. If you have not been admitted to College of DuPage, please complete the **non-refundable \$20 [College of DuPage General Admissions Application](#)** online. **This application is for general admissions to College of DuPage only; it is not an application to the Health Sciences Limited Enrollment Vascular Sonography program.**
- _____ 3. To ensure that all of your eligible credits are evaluated towards the admission requirements, turn in **ALL** official Transcripts from institutions that you have attended. Immediately:
 - a. Submit your official transcript(s) to **College of DuPage, [Office of Student Records](#)**. *If College of DuPage is the only institution you have attended, you do not need to request official transcripts.*
 - b. Verify receipt of your transcript(s). Log into myACCESS account, click on 'myACCESS for Students', select '**My Profile**'. The receipt status of your transcript will be listed under '**Transcript Institutions**'.

NOTE: If you have an international transcript from high school or college, it must first be evaluated. Please visit the following website

https://www.cod.edu/registration/records/trans_eval_listing.aspx for details.

- _____ 4. **Schedule an appointment** with a **Health Program Advisor** by calling 630-942-2259. The Health Program Advisor will develop an Academic Plan to ensure you have completed all prerequisites in order to apply. *Please be sure to discuss other application requirements during this appointment*

- _____ 5. Complete the **non-refundable** \$50 [Health Career Selective Enrollment Program Application](#) online by logging into the student portal at <https://inside.cod.edu>
- Click on myACCESS for Students



- Click on the Health Careers Applications link



- Select Health Careers Application



- Select **Diagnostic Medical Imaging Vascular Sonography Certificate** when asked “What selective enrollment program are you applying to?”

Once the application is submitted, you may not change the term or program. If you do not have a credit card, you can purchase a prepaid credit card from your local retailer

- _____ 6. Complete the [College of DuPage Residency Verification form](#) and provide proof of residency to the **Office of Student Registration Services** by e-mailing registration@cod.edu by the program application deadline date.

Note:

- **If this residency requirement has not been submitted to Registration by the program application deadline date, you will not be considered for admission.**

- **Separate Residency Verification Forms must be submitted for each program application.**

_____ 7. Submit a copy via e-mail to hsadmissions@cod.edu of current ARDMS/CCI card in one or more of the following categories below.

- Abdominal & Superficial Structures
- Obstetrics & Gynecology
- Echocardiography

_____ 8. Provide documentation of experience working with patients in a healthcare setting (as a clinical student or employee). Letter provided must be on company letterhead, created by a supervisor at the facility, stating that a minimum of 40 hours were completed, within the last 3 years. Please e-mail to hsadmissions@cod.edu.

“All application documents delivered to the College of DuPage pertaining to a health sciences admissions file become the property of the College of DuPage and will not be returned to the applicant. This includes but is not limited to transcripts, letters of recommendation, clinical evaluation forms or outside test reports.”

**Applicants interested in re-applying will need to start over and resubmit all application items during the new application period. COD does not save application materials.*

Application supplemental materials must be turned in after you have submitted the Health Sciences application.

*All applicants will receive a letter of decision (accept/decline/alternate) via COD email and/or mail – by mid-November.

* If you are accepted into the program, prior to the start of classes/clinicals you must:

- ◆ Provide confirmation that all health requirements are completed and uploaded into the document manager
- ◆ Be registered for all required courses

COURSE SEQUENCE

DIAGNOSTIC MEDICAL IMAGING VASCULAR SONOGRAPHY CERTIFICATE PROGRAM

Course Number	Course Description	Credit Hours
<u>Spring Semester</u>		
*DMIS 2200	Vascular Hemodynamics & Physics	2 hours
DMIS 2201	Abdominal & Peripheral Arterial 1	3 hours
DMIS 2221	Abdominal & Per Art – Hands-on Lab	1 hour
DMIS 2204	Abdominal & Peripheral Venous	2 hours
DMIS 2224	Abdominal & Per Venous – Hands-on Lab	1 hour
DMIS 2212	Clinical Education 1	3 hours
DMIS 2203	Cerebrovascular	2 hours
DMIS 2223	Cerebrovascular – Hands-on Lab	1 hour
<u>Summer Semester</u>		
DMIS 2213	Clinical Education 2	2 hours

	<u>Total</u>	15-17 hours

DMIS 2200 or equivalent required if SPI Physics has not been previously passed

Tuition

For current tuition rates visit our [Tuition & Aid webpage](#).

DIAGNOSTIC MEDICAL VASCULAR SONOGRAPHY CURRICULUM

Vascular Hemodynamics and Physics (DMIS 2200)

A review of the circulatory system blood as fluid, and how blood circulates. A description of the various forms of energy and how they affect blood movement will be covered. The principles of blood movement, conduits and circulation will be examined along with laboratory demonstration of these principles. The Doppler effect and the Doppler will be explained and applied. Various Doppler Instruments used to assess blood flow in vascular ultrasound will be reviewed and utilized in class and lab. Prerequisite: Admission to Diagnostic Medical Imaging Sonography program is required. (1 lecture hour, 2 lab hours)

This course or equivalent must be taken if SPI Physics has not been previously passed.

Abdominal and Peripheral Arterial 1 (DMIS 2201)

A review and evaluation of blood vessels, their purpose and composition, along with detailed physiology of the arterial blood flow system. Arterial anatomy of the abdomen, pelvic and upper extremities, as well as the lower extremities are reviewed. Diseases of the arterial system, along with their effects are addressed, with indications for ultrasound arterial examinations. Direct and indirect ultrasound testing will be discussed. This course will also review other laboratory modalities that test the abdominal and peripheral arterial system, the tests that are performed, and test findings. Treatments for various diseases of abdominal and peripheral arterial problems are addressed. Arterial ultrasound testing as a part of ongoing, post-intervention patient management is emphasized.

Abdominal and Peripheral Arterial Hands-on Scanning Lab – 1 (DMIS 2221)

An overview of abdominal and peripheral arterial ultrasound testing using hands-on training in the classroom with the Vascular ultrasound equipment. Application of principles taught in DMIS 2201. Various arterial testing and scanning techniques are demonstrated and performed on fellow students under the guidance of the instructor. Proper techniques in these testing modalities are reviewed, along with proper identification of the arterial system.

Abdominal and Peripheral Venous (DMIS 2204)

Overview of the purpose and composition of blood vessels and the physiology of the venous blood flow system. Venous anatomy of the abdomen, pelvis, upper extremities, as well as the lower extremities, are addressed. Diseases of the venous system, their effects and indications for ultrasound venous examinations are included. An overview of abdominal and peripheral venous ultrasound testing, their findings and other laboratory modalities. Treatments for various diseases of abdominal and peripheral venous systems are reviewed

Abdominal and Peripheral Venous Hands-on Scanning Lab (DMIS 2224)

Continuation of DMIS 2204 that provides an understanding of abdominal and peripheral venous ultrasound testing by offering hands-on training in the classroom with the Vascular ultrasound equipment. Various venous testing and scanning techniques are demonstrated. Under the guidance of the instructor, students practice these techniques on fellow students. Proper techniques in these testing modalities are reviewed, along with proper identification of the venous system.

Clinical Education - Vascular Imaging 1 (DMIS 2212)

Supervised clinical training in a health care institution or clinic in the vascular imaging skills taught in the classroom. Students observe, assist and perform various patient imaging procedures. The focus of this course is clinical skills, professionalism, and correct hospital procedures and policies.

Cerebrovascular Ultrasound (DMIS 2203)

Overview of the purpose and composition of blood vessels and the physiology of the cerebrovascular system. Cerebrovascular anatomy is reviewed. Diseases of the cerebrovascular system are addressed with the indications for Ultrasound cerebrovascular examinations. Includes a review and demonstration of cerebrovascular Ultrasound testing and findings, and other laboratory modalities. Treatments for various diseases of the cerebrovascular system are addressed. Cerebrovascular testing as a part of ongoing, post-intervention patient management is included.

Cerebrovascular Ultrasound Hands-on Scanning Lab (DMIS 2223)

Continuation of DMIS 2203 that provides a further understanding of cerebrovascular Ultrasound testing by offering hands-on training in the classroom with Vascular Ultrasound equipment. Various cerebrovascular testing techniques and scanning are demonstrated to the students. Under the guidance of the instructor, students practice these techniques on fellow students. Proper techniques in these testing modalities are reviewed, along with proper identification of the cerebrovascular system.

Clinical Education - Vascular Imaging 2 (DMIS 2213)

Supervised clinical training in a health care institution or clinic in the vascular imaging skills taught in the classroom. Students observe, assist and perform various patient imaging procedures. The focus of this course is clinical skills, professionalism and correct hospital procedures and policies. This course builds upon those skills learned in the classroom and DMIS 2212.