College of DuPage

Diagnostic Medical Imaging Sonography (DMIS) Programs Advising Session

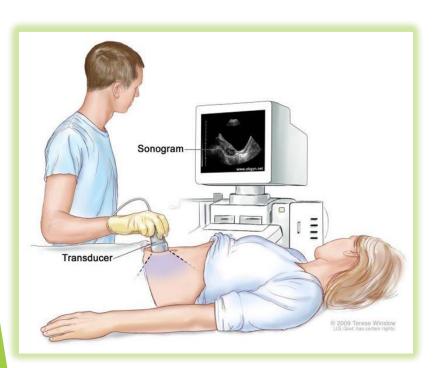






What is Ultrasound/Sonography?

- Clinical discipline.
- Use of equipment that produces sound waves which are converted into images of human anatomy.
- Medical interpretation and diagnosis by a Radiologist.
- Sonography programs at COD prepare students for entry-level positions in Sonography.





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What Do Sonographers Scan?

- O Liver
- O Gallbladder
- O Pancreas
- O Spleen
- O Kidneys
- O Uterus/Ovaries
- O Testicles
- O Thyroid
- O Obstetrics
- O Breast
- O Arteries/Veins
- O Pediatric Hips/Spine
- O Neonate Heads
- O Assist with Biopsies/Aspirations

Sonography Lab at COD

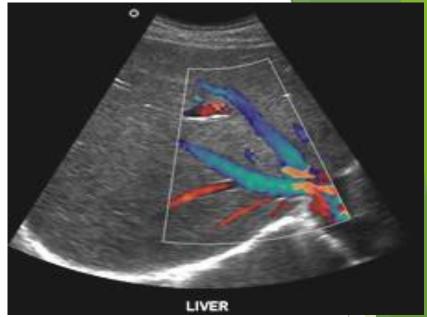


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KIDNEYS/LIVER

Scanning Approach/View





Color Doppler of Hepatic Veins

Images of a Kidney

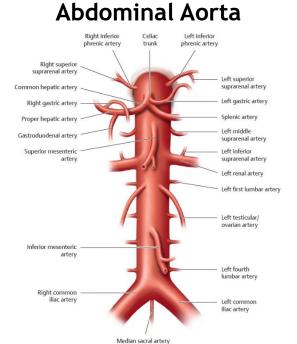




Liver Masses (Dark Areas)



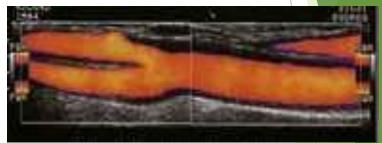
Vascular Sonography



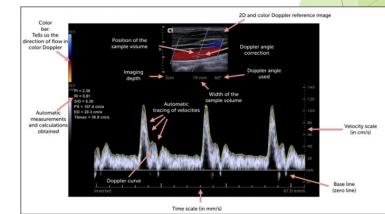
Femoral Vein & Artery



Carotid Artery

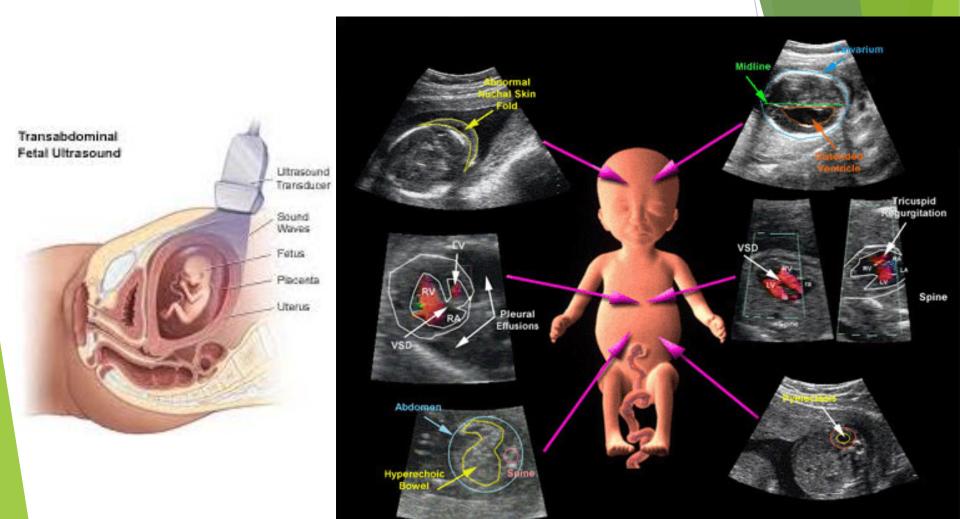


Pulsed Wave Doppler





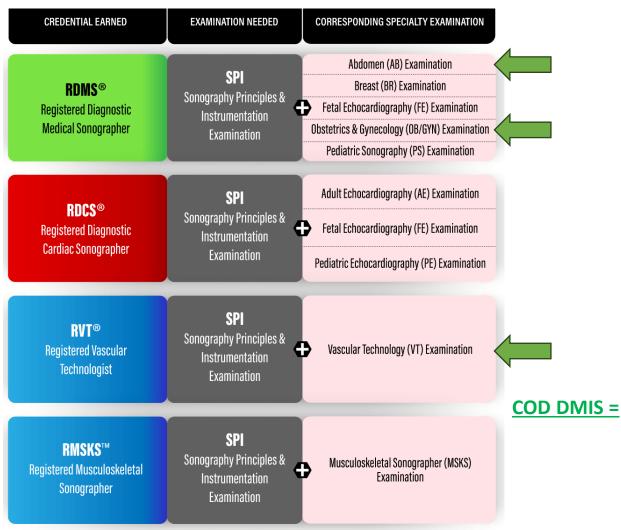
OBSTETRICS





Earning Your Sonographer Credentials (*Because the certificate(s) or degree alone is not enough!)

American Registry of Diagnostic Medical Sonographers (ARDMS)



* Breast = Trained but not eligible for exam

Programs & Application Requirements

CERTIFICATES

General (Advanced Certificate) 18 months

*Training in Abdomen & Obstetrics/Gynecology Sonography <u>*Must already be a currently licensed healthcare professional</u> with a completed associates degree in either Radiology, Nursing, Physical Therapy, etc. *PLUS – Possible Prerequisite Coursework

Vascular (Vascular Technology Certificate) 6 months

*Training in Vascular Sonography *<u>Must already be a currently registered Sonographe</u>r in either Obstetrics/Gynecology (RDMS), Abdomen/Superficial Structures (RDMS), or Echocardiography (RDCS) *PLUS – Possible Prerequisite Coursework

DMIS AAS DEGREE (Vast Majority of Applicants)

2 years not including prerequisites

*Training in Abdomen & Obstetrics/Gynecology & Vascular Sonography *Must be a HS/GED graduate, and complete specific general education prerequisites PLUS, courses specific to sonography that can only be taken at COD

*See admission packets for more information: Link: <u>Sonography Program | College of DuPage (cod.edu)</u>

So...

COD Advanced Certificate makes you eligible for:

SPI, Abdomen & Obstetrics/Gynecology Exams = Jimmy Page, RDMS

COD Vascular Certificate makes you eligible for:

SPI & Vascular Technology Exams = Taylor Swift, RVT

*These days employers want you to know it all! (so, you would 100% want to take both certificates to become RDMS, RVT !!)

COD AAS Degree makes you eligible for:

SPI, Abdomen, Obstetrics/Gynecology, & Vascular Technology Exams = Patrick Kane, RDMS & RVT

*Breast (Trained but not eligible for the exam.)

AAS Degree Prerequisites Completion required by end of Spring semester preceding Fall program start.

COURSE # COURSE TITLE

GRADE REQUIRED

ENGLISH 1101	English Composition I	"C" or higher	
SPEECH 1100 or 1120	Fund. Speech Communication	"B" or higher	
(or equivalent)	Small-Group Communication		
ANAT 1552 or 1572*	Human Anatomy & Physiology II or Human A & P with Cadaver II	'B' or higher	
*Prerequisite: A&P 1551 or 1.	571 with a grade of 'B' or higher		
HUMANITIES	Any Humanities Course	'C' or higher	
PSYCH 1100 (or equivalent)	General Psychology	'C' or higher	
HLTHS 1110*	Biomedical Terminology	'B' or higher	
*MATH 1120	Mathematical Foundations for DMIS	'B' or higher	
OR Algebra/Statistics/or higher AN	ND Gen. Physics or Radiographic Physics	'B' or higher	
*D.00.1110			
*DMIS 1110	Basic Patient Care Skills for Sonographers	'B' or higher	
*DMIS 1105	Intro to Pathophysiology for Sonographers	'B' or higher	
*These are only offered at COD. They are not offered Summer semester.			
NOTE: The DMIS Program is undergoing revisions.			

Please monitor the program admission packet for updates and/or modifications.

Program Schedules

CERTIFICATES

Advanced General Sonography Certificate Program

*It is an 18-month certificate program.
*The program is full-time on campus and at hospitals.
1st semester = (2) 12-hour days & evenings on campus
2nd-4th semesters = (2) 8-12-hour days & evenings on campus AND
(3) 8.5 hour shifts per week at a hospital/clinic

Vascular Sonography Certificate Program

*It is a 6-month certificate program.
*The program is mostly full-time on campus and at hospitals.
1st semester = (2) 8-12-hour days & evenings on campus AND (3) 8.5 hour shifts per week at a hospital/clinic
2nd semester = (3) 8.5 hour shifts a week at a hospital/clinic

DEGREE

Sonography Degree Program

*It is a 2-year degree program (not including prerequisites).
*The program is full-time on campus and at hospitals.
1st semester = (2) 12-hour days & evenings on campus
2nd -5th semesters = (2) 8-12-hour days & evenings on campus AND
(3) 8.5 hour shifts per week at a hospital/clinic
6th semester = (3) 8.5 hour shifts a week at a hospital/clinic

Clinical shifts will be days, nights and/or weekends, the hospital/clinic sets the schedule

Where, How, When would I work Depends on.....

Type of Facility:

Hospital, Free-Standing ER, Quick Care Clinic, Imaging Center, Obstetrics Office, Medical Clinic.

Type of Position:

Full Time, Part Time, Registry

Facility Hours:

Days, Nights, Overnight, Call, Weekends, Holidays

Pay:

Depends on type of position – FT/PT/Registry, & Location. Starting pay is typically \$30-40. an hour in the Chicagoland area. U.S. Department of Labor, Occupational Outlook Handbook reports median as \$29.33 per hour (\$61k a year)

https://www.bls.gov/ooh/healthcare/diagnostic-medical-sonographers.htm



Program Costs

Item	Estimated Cost
Non-Refundable College of DuPage Application	\$20.00
Non-Refundable Health Career Application Fee	\$50.00
HESI-A2 Admission Exam	\$60.00
 In-District Tuition (77 credits) (variable tuition applies to Sonography classes) 58 credits of DMIS courses x \$274/credit = \$15,892.00 27 credits of General Education courses x \$152/credit = \$4,104.00 	\$19,996.00
Uniform (approximate cost for 2 uniforms and 1 jacket)	\$130.00
Books (approximate cost to purchase new)	\$1,200.00
Course/Lab Fees (2 year malpractice insurance included)	\$1,922.00
Criminal Background Check (see Health Requirement Packet for details (PDF))	\$72.99
Mandatory Drug Testing (\$33.99 per year) (see Health Requirement Packet for details (PDF))	\$67.98
Medical Document Manager (see Health Requirement Packet for details (PDF))	\$19.49
Health Requirements (see Health Requirement Packet for details (PDF))	Varies
Estimated Total	\$23,538.46 + Health Requirements

STANDARD SKILLS IN SONOGRAPHY

- ► To participate in the clinical education portion of the DMIS programs, the applicant must possess skills relevant to a sonography department. These technical standards are consistent with the duties of an entry-level sonographer. The student must have the ability to:
- Lift and carry thirty 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, at 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 subtle shades of grays used in sonographic imaging.
- Respond appropriately to equipment signals such as sound and light.
- Speak and write English fluently.
- Manipulate necessary hospital equipment for patient care and patient imaging such as dials, switches, push buttons, and keyboards.
- Stand and perform ultrasound exams for a prolonged period without scheduled breaks in a typical shift of 8-12 hours.
- Manipulate a transducer with the right hand in a back-and-forth manner while maintaining balance as well as operating the machine controls with the left hand.
- Communicate orally and in writing with the patient, doctors, and other personnel clearly and effectively.
- Must be able to follow verbal and written directions.
- Other Skills Include:
- Ability to view computer/ultrasound machine screens for extended periods.
- Ability to deal with extremely ill patients.
- Ability to make independent decisions using good judgment skills (as appropriate for level of education).
- Ability to practice high quality patient care.
- Ability to function with minimal assistance (as appropriate for level of education).
- Exposure to hazardous chemicals, such as for probe and machine cleaning.
- Recognition of needs and behaviors of a variety of age groups and abilities of patients treated.

Important Information to Review

See links below:

Health Requirements Packet (cod.edu)

Health Requirement Information (essential functions/technical standards for acceptance, drug testing, criminal background check, immunizations, etc.)

Policies and Procedures | College of DuPage (cod.edu)

Policy for Professional Conduct

Statement on Transportation

Prohibition of Discrimination and Harassment

Student Diversity

Student Email

Statement on Medical Care and Health Insurance

Statement on Medical Malpractice Insurance

Citizenship/Visa Status

How do I become part of this amazing field?

Qualify to apply to the program (by completing prerequisite classes and other application requirements)

*Have a Plan B (We have more applicants than seats available)

Apply to the program

(Acceptance into the programs is Merit Score based)

Complete certificate or degree requirements & sit for exams (for RDMS and/or RVT)

Start your career!

On average 75% of our students are hired

prior to graduation!





To Do List

WHAT DO I DO NEXT??

Application Materials Checklist Admissions Packet

New to COD?

Already a COD student?



Questions? Please email: Melissa McKirdie MS,RDMS,RVT <u>mckirdiem@cod.edu</u>

THANK YOU FOR YOUR TIME AND ATTENTION

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