

DEL MAR COLLEGE

CARDIAC SONOGRAPHY PROGRAM APPLICATION

The Cardiac Sonographer (Ultrasound Technologist) is a skilled person qualified by academic and clinical education to provide patient services using diagnostic ultrasound under the supervision of a qualified medical doctor, whose responsibility is the use and interpretation of ultrasound procedures. The sonographer scans the patient and provides the physician with adequate information to make the best possible diagnosis.

CAREER OPPORTUNITIES

Students completing the Cardiac Sonography Program may choose a wide variety of careers as sonographers in hospitals, clinics, and doctors' offices. In addition, opportunities may be found as technical and sales representatives or research personnel.

ACCREDITATION

This program is accredited by the Joint Review Committee on Education for Diagnostic Medical Sonography, the Committee on Accreditation of Allied Health Education Programs (CAAHEP), the Texas Education Agency, and the Veterans Administration.

GRADUATE CERTIFICATION

Upon completion of the program in Cardiac Sonography, the student will be awarded an Associate of Applied Science (AAS) degree in Cardiac Sonography. Graduates of the eighteen-month program are qualified to take the national examination for registration by the American Registry of Diagnostic Medical Sonographers (ARDMS).

FACULTY

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Cardiac Sonography Clinical Coordinator
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ADMISSION REQUIREMENTS FOR DEL MAR COLLEGE

- Application for Admission
- Official high school transcript or GED test scores
- Official college transcripts
- Proof of Texas residency
- Test Scores from TSI

Note: These documents are admission requirements for Del Mar College

Del Mar College is an open admissions college; however, acceptance into the Cardiac Sonography Program is by selection. Positions in the Cardiac Sonography Program are limited.

FINANCIAL AID

Refer to the Del Mar College Catalog for information on financial aid.

ADVANCED PLACEMENT OPTIONS

Students admitted to the Cardiac Sonography Program will not be given advanced placement options in any of the program courses.

INFORMATION SHEET

The following information will assist you in applying for the Cardiac Sonography Program. Please follow the instructions.

IT IS YOUR RESPONSIBILITY TO PROVIDE THE PROGRAM WITH THE PROPER PAPERWORK AT THE PROPER TIME!

- You must be eligible and applied for admission to Del Mar College.
- You must supply the Registrar's Office with *official* copies of college transcripts.
- You must supply the Cardiac Sonography Program office with *official* copies of college transcripts.
- You must have completed a Cardiac Sonography Program application/data sheet.
- You must have a minimum GPA of 2.5.
- If applicable, supply copies of degrees, certificates, or registries in the health field.
- You must complete all prerequisites.
- All prerequisite courses must be completed by the end of the Del Mar College Fall semester.
- You must have completed a CNA (*Certified Nurse Aid*) certificate program and obtain state certification or show proof of one of the following exemptions:
CNA certification is NOT required if you have completed one or more of the following direct patient care programs: EMT- Basic, Licensed Vocational Nurse (LVN), Nuclear Medicine Technologist, Occupational Therapy Assistant (OTA), Paramedic, Physical Therapy Assistant (PTA), Radiologic Technologist (RT-R), Registered Nurse (RN), Respiratory Therapist, and Surgical Technologist.
- Active status CNA certification is NOT required.
- You should schedule an advising appointment with Cardiac Sonography program faculty within the first semester of your prerequisites, for information call (361) 698-2832.
- You will be selected on an individual basis by an Admissions Committee.

- The deadline for accepting applications is December 1st of each year.
- You will receive written notification upon acceptance to the Cardiac Sonography Program by April 1st.
- Students are required to provide their own transportation to clinical sites and navy-blue scrubs.
- Students are expected to travel to out of area clinical sites all of which are within a 150-mile radius of the College.

Upon conditional admittance into the Cardiac Sonography Program, the student must pass a Criminal Background Check and Drug Screen as mandated by our accrediting agency and clinical affiliates. A physical exam with shot record and current CPR card must be submitted prior to the first day of class.

****ONLY COMPLETED FILES WILL BE CONSIDERED FOR SELECTION****

PREREQUISITES

Students are selected by the Admissions Committee based on a point system. Points are given for prerequisite grades, overall GPA, and Lab volunteer hours.

Prerequisite Courses:

ENGL 1301 Composition 1

Creative Arts or Language, Philosophy, and Culture Core Elective

BIOL 2401 Human Anatomy and Physiology I

BIOL 2402 Human Anatomy and Physiology II

MATH Core Elective

SPCH Core Elective

Social and Behavioral Sciences Core Elective

*PHYS 1305 or SCIT 1318

* Please contact the program director if you have questions regarding the required physics prerequisite.

ALL APPLICANTS MUST HAVE COMPLETED A CNA (CERTIFIED NURSE AID) CERTIFICATE PROGRAM AND OBTAIN STATE CERTIFICATION OR SHOW PROOF OF EXEMPTION

You should schedule an advising appointment with Cardiac Sonography faculty within the first semester of your prerequisites, for information call (361) 698-2832 or (361) 698-2858.

Certified Nurse Aid Requirement

The Del Mar College Cardiac Sonography Program requires completion of a (CNA) Certified Nurse Aid certification program and obtain state certification or show proof of one of the following exemptions:

CNA certification is NOT required if you have completed one or more of the following direct patient care programs: EMT- Basic, Licensed Vocational Nurse (LVN), Nuclear Medicine Technologist, Occupational Therapy Assistant (OTA), Paramedic, Physical Therapy Assistant (PTA), Radiologic Technologist (RT-R), Registered Nurse (RN), Respiratory Therapist, and Surgical Technologist. Active status CNA certification is NOT required.

Course Descriptions:

NURA 1001 Certified Nurse Aide (CNA)

Classroom and Laboratory preparation for entry level nursing assistants to achieve a level of knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team. Concurrent enrollment in NURA 1060 is required.

NURA 1060 Certified Nurse Aide (CNA) - Clinical

A continuation of NURA 1001 that includes a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts for entry level nursing assistants. Direct supervision is provided by the clinical instructor and clinical training is conducted at a local long-term care facility. Course cost includes the Texas Department of Aging and Disability Services registry examination fee. Concurrent enrollment in NURA 1001 is required. Prerequisites: NURA 1001 and required immunizations.

Contact Information:

Del Mar College Center for Economic Development
Continuing Education Department
Noncredit Health Care Programs
3209 S. Staples (across from Ray High School)
(361) 698-1328

Information concerning the Certified Nurse Aid Program can be found on the [CNA website \(www.delmar.edu/cna\)](http://www.delmar.edu/cna).

POINT LEGEND

Del Mar College Lab Volunteer:

½ point per hour, 10 points maximum

Kept on file and valid for five years

(Diagnostic Medical Sonography Lab)

(Cardiac Sonography Lab)

Overall GPA Points:

2.5 – 3.0 = 1 point

3.0 – 3.5 = 2 points

3.5 + = 3 points

Prerequisite Course Points:

A = 10 points

B = 6 points

C = 4 points

Prospective volunteers call: 361-698-2808 to leave a message

PROGRAM CURRICULUM

A grade of 75 or better must be maintained throughout the program in all courses.

First Semester (Summer)

DMSO 1101 Techniques of Medical Sonography

DMSO 1110 Introduction to Sonography

DMSO 1302 Basic Ultrasound Physics

Second Semester (Fall)

DSAE 1303 Introduction to Cardiac Sonography Techniques

DSAE 1260 Clinical Education I

DSAE 1415 Principles of Adult Cardiac Sonography

DMSO 1342 Intermediate Ultrasound Physics

Third Semester (Spring)

DSAE 2404 Cardiac Sonography Pathophysiology I

DSAE 1264 Practicum I

DSVT 1300 Principles of Vascular Technology

Fourth Semester (Summer)

DSAE 2261 Clinical II

DSAE 2437 Cardiac Sonography Pathophysiology II

DSVT 2200 Vascular Technology Applications

Fifth Semester (Fall)

DSAE 2355 Advanced Cardiac Sonography and Review

DSAE 2268 Practicum II

Total Credit Hours: 39

Total Prerequisite Hours: 26

65 Total Semester Hours for Associate Degree in Applied Science (Cardiac Sonography)

CLINICAL REQUIREMENTS

Throughout the eighteen (18) months in the Cardiac Sonography Program at Del Mar College, the student will attend Clinical Affiliates in order to:

1. Acquire expertise and proficiency in a wide variety of diagnostic ultrasound procedures by applying classroom theory to the actual practice of technical skills on specified levels of competency.
2. Develop and practice professional work habits and appropriate interpersonal relationships with patients and other members of the health care team.
3. Clinical Proficiencies will be assigned each semester according to curriculum sequence taught.

Students will be scheduled and rotated through various Clinical Affiliation sites within a 150-mile radius of the college. Demonstration of core clinical proficiencies must be established to be eligible for the American Registry of Diagnostic Medical Sonography testing. These requirements are in addition to graduation from an accredited program by the Joint Review Committee of Diagnostic Medical Sonography.

TECHNICAL STANDARDS

Physical Requirements:

- Must possess emotional and physical health sufficient to meet the demands of the position.
- Must have strength sufficient to: lift some patients, move heavy equipment on wheels (up to approximately 500 lbs), and to move patients in wheelchairs and stretchers.
- Must have ability to maintain prolonged arm positions necessary for scanning.

Essential Functions:

- Will perform clinical assessment and diagnostic sonography examinations.
- Will use cognitive sonographic skills to identify, record, and adapt procedures as appropriate to anatomical, pathological, diagnostic information and images.
- Will use independent judgment during the sonographic exam to accurately differentiate between normal and pathologic findings.
- Will analyze sonograms, synthesize sonographic information and medical history, and communicate findings to the appropriate physician.
- Will coordinate the work schedule with Departmental Director and/or scheduling desk to assure workload coverage.
- Will assume responsibility for the safety, mental and physical comfort of patients while they are in the sonographer's care.
- Will assist with the daily operations of the sonographic laboratory.
- Will maintain a daily log of patients seen/completes exam billing forms.
- Will maintain ultrasound equipment and work area and maintain adequate supplies.
- Will participate in the maintenance of laboratory accreditation.
- Will establish and maintain ethical working relationships and good rapport with all interrelating hospitals, referral or commercial agencies.
- Will perform other work-related duties as assigned.

Examples of Duties & Responsibilities:

- Will perform all requested sonographic examinations as ordered
- Will prepare preliminary reports and contacts referring physicians when required, according to established procedures
- Will coordinate with other staff to assure appropriate patient care is provided.
- Will address problems of patient care as they arise and make decisions to appropriately resolve the problems
- Will organize daily work schedule and performs related clerical duties as required.
- Will assume responsibility for the safety and wellbeing of all patients in the sonographic area/department.
- Will report equipment failures to the appropriate supervisor or staff member.
- Will provide in-service education team on requirements of sonographic procedures as requested by other members of the health care team.
- Will perform other related duties as assigned.

Demonstration of Skills and Abilities:

- Have the ability to effectively operate sonographic equipment.
- Have the ability to evaluate sonograms in order to acquire appropriate diagnostic information.
- Have the ability to integrate diagnostic sonograms, laboratory results, patient history and medical records, and adapt sonographic examination as necessary.
- Have the ability to use independent judgment to acquire the optimum diagnostic sonographic information in each examination performed.
- Have the ability to evaluate, synthesize, and communicate diagnostic information to the attending physician.
- Have the ability to communicate effectively with the patient and the health care team, recognizing the special nature of sonographic examinations and patient's needs.
- Have the ability to establish and maintain effective working relationships with the public and health care team.
- Have the ability to follow established departmental procedures.
- Have the ability to work efficiently and cope with emergency situations.

Information is based on the Society of Diagnostic Medical Sonography (SDMS) requirements for employment.

ESTIMATED EDUCATIONAL EXPENSES

The following fees are only approximate amounts. Fees are TBA throughout the semester as needed.

Cardiac Sonography Textbooks \$850 (approximately)

Drug Testing \$50

Background Check \$75

Physical with Doctor (check with your Doctor)

Tuberculosis Skin Test (check with your Doctor)

Hepatitis B Vaccine Series (check with your Doctor)

Uniform & Shoes (3 sets) \$150

Uniform Patches (3) \$15

SDMS student membership \$45

ARDMS Sonographic Principles & Instrumentation Registry Exam (SPI) \$250

ARDMS Specialty Registry Exam \$275

Graduation Cap & Gown \$50

EDUCATIONAL EXPENSE LIST

In-District/Out-of-District

If you are a recognized resident of the Del Mar College District, the following list reflects the approximate education cost associated with the Cardiac Sonography Program.

Del Mar College Semester Hour Cost 2024-2025			
Semester Hours	In-District	Out-of-District	Out of State/Foreign
3	\$418	\$568	\$679
6	\$751	\$1051	\$1273
9	\$1084	\$1534	\$1867
12	\$1417	\$2017	\$2461
15	\$1750	\$2500	\$3055

Semester Hours	Semester
5	Summer
12	Fall
9	Spring
8	Summer
5	Fall

The information above provides approximate cost estimates for a degree in Cardiac Sonography and does not include lab fees or other associated course fees. Tuition and fees are subject to change. Refer to the program expense sheet for an estimated total cost.

Residency requirements can be found in the Del Mar College Catalog. For more information about residency, contact the Del Mar College Business Office at (361) 698-1263.

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(December 1st deadline to apply)

Date: _____ Student ID: _____

Last Name: _____ First Name: _____ Middle: _____

Address: _____ City, State, Zip: _____

Email: _____

Home Number: _____ Cell Phone: _____

In Case of Emergency, please notify:

Name: _____ Home Phone: _____ Cell Phone: _____

Address: _____ City, State, Zip: _____

Are you currently enrolled this semester? If so, list courses:

****Applicants accepted into the Cardiac Sonography Program will be required to provide drug testing and a background check.**

The provisions and information set forth in this statement are intended to be informational and not contractual in nature and are subject to modification without notice, by the Administration or the Board of Regents. For additional explanation see the Disclaimer in the College Catalog.

Del Mar College does not discriminate on the basis of race, color, sex, age, national origin, religion, handicap, or any other constitutionally or statutorily impermissible reason. This shall include persons with disabilities.

Official Transcripts must accompany this application

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Courses	Grade	Course	Institution	Semstr/Yr
ENGL 1301	_____	<u>ENGL 1301</u>	_____	_____
BIOL 2401	_____	<u>BIOL 2401</u>	_____	_____
BIOL 2402	_____	<u>BIOL 2402</u>	_____	_____
SPCH Core Elective	_____	_____	_____	_____
MATH Core Elective	_____	_____	_____	_____
Social and Behavioral Sciences Core Elective	_____	_____	_____	_____
Creative Arts or Language, Philosophy and Culture Core Elective	_____	_____	_____	_____
*PHYS 1305 or SCIT 1318	_____	_____	_____	_____
Composite GPA	_____			
Volunteer hours	_____			
CNA Certification # or exemption: _____				

I, _____, have read and understand the criteria for admissions and the application process for the Del Mar College Cardiac Sonography Program. In addition, I am aware of the requirements that must be met for "Full" acceptance into the Del Mar College Cardiac Sonography Program.

Signature: _____ Date: _____

Mailing Address
Del Mar College (Windward Campus)
Department of Dental & Imaging Technology
Cardiac Sonography Program
101 Baldwin Blvd.
Corpus Christi, TX 78404

Physical Address
Del Mar College (Windward Campus)
Department of Dental & Imaging Technology
Cardiac Sonography Program
4101 Old Brownsville Rd. HS2-130
Corpus Christi, TX 78405
(361) 698-2858 voice
(361) 698-2811 fax

* Please contact the program director if you have questions regarding the required physics prerequisite.