

# DIAGNOSTIC MEDICAL SONOGRAPHY

## Associate in Science Degree (CIP# 1351091004)

### Limited-Access

This program is designed to prepare the student for employment as a diagnostic medical sonographer. The sonographer should be skilled by academic and clinical training to perform ultrasound examinations under the supervision of a qualified physician.

Diagnostic Medical Sonography is a dynamic medical imaging profession. It is presently being used to evaluate many soft tissue organs in the body. Some of these organs are the liver, gallbladder, kidneys, and pancreas. One of the most fascinating uses of diagnostic ultrasound is the examination and evaluation of the unborn child. With the most recent technical advances in ultrasound, the sonographer is now able to evaluate flow dynamics of many blood vessels of the fetus, pediatric and adult patient.

Properly-trained sonographers are in demand in hospitals, clinics, doctors' offices, marketing, applications, and mobile services.

The General DMS Program sponsored by Valencia College is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org) (<https://www.caahep.org/>)) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

Graduates are eligible to take the national certifying examinations administered by the American Registry of Diagnostic Medical Sonographers.

Sonography is a limited-access program. Admission to Valencia does not imply acceptance to the Diagnostic Medical Sonography Program; students must apply and be accepted to the program. General admission procedures for this program are found in the Admissions section of this catalog. The Division of Allied Health provides information about specific program admission criteria.

Estimated program expenses are given in the Financial section of this catalog.

Admission requirements that must be satisfied prior to submitting an application to the A.S. degree Program in Diagnostic Medical Sonography are:

- Review the general admission requirements for Health Sciences programs in the Admissions section of this catalog.
- Submit a completed Valencia Application for Admission; satisfy the requirements for degree-Seeking Status and be in Active Student Status.
- Satisfy the college entry testing requirement and satisfactorily complete all mandatory courses in reading, Professions of Caring (HSC 1004) for students pending acceptance to a health sciences program, or New Student Experience (SLS 1122), mathematics, English, and English for Academic Purposes in which you are placed.
- Complete the Diagnostic Medical Sonography Program Prerequisite for Admission courses with a minimum grades of C.

- Have a minimum overall college GPA of 2.5 (including transfer work). NOTE: Transfer students with completed coursework at Valencia College also need to have a minimum institutional/Valencia GPA of 2.0 at the time of applying (in addition to the minimum overall college GPA of 2.5).
- Satisfy the designated entrance test requirements for Health Sciences programs.
- Submit the completed Valencia Diagnostic Medical Sonography program application with the application fee by the deadline.

The program curriculum includes all courses that are required for the Diagnostic Medical Sonography A.S. degree. A minimum grade of C must be achieved in all courses identified in the program curriculum, including the course required for admission. The courses in the curriculum are progressive in nature, with one course building on the preceding course. Because of this progressive relationship, all courses in a term must be completed with a grade of C or better in order to continue to the next term. If a student achieves less than a C or withdraws from any course that is required for the Diagnostic Medical Sonography A.S. degree, the student will not be allowed to progress in the program.

Students are strongly encouraged to consult their campus based Allied Health Program Advisor for assistance in determining the best education plan for their career goals.

### Alternative Ways to Earn Credit toward this Degree

If you have earned your credential as a Registered Diagnostic Medical Sonographer (RDMS), you may be eligible to receive credit toward this A.S. degree. For more information, visit: <https://valenciacollege.edu/academics/programs/as-degree/credit-industry-certification-agreements.php>

### Start Right

Degree-seeking students enrolling at Valencia for the first time will have a limited range of courses from which to choose for their first 18 college-level credits. Within the first 18 college credit hours, you will be required to take ENC1101 (3 credits), and if applicable, Professions of Caring (HSC 1004) for students pending acceptance to a health sciences program, or New Student Experience (SLS 1122), and a mathematics course appropriate to your selected meta-major (3 credits). The remaining courses will be chosen from the General Education Core Courses in humanities (3 credits), science (3 credits), or social science (3 credits), and/or the introductory courses within the A.S. degree programs. For specific courses see the *Foundation Courses* on the "Program Requirements" tab.

For course sequencing recommendations, see your campus based Allied Health Program Advisor or access the Course Planning Guide on the Health Sciences webpage <https://valenciacollege.edu/academics/programs/health-sciences/diagnostic-medical-sonography/>. (<https://valenciacollege.edu/academics/programs/health-sciences/diagnostic-medical-sonography/>)

### Potential Careers

- Diagnostic Medical Sonographer

### Salary & Earnings Information

For career information related to this program, please visit O\*Net OnLine (<https://www.onetonline.org/>).

## Contacts

### Future Students

To learn more about this program, contact Enrollment Services at [enrollment@valenciacollege.edu](mailto:enrollment@valenciacollege.edu) or 407-582-1507 or visit [valenciacollege.edu/diagnostic-medical-sonography/](http://valenciacollege.edu/diagnostic-medical-sonography/) (<https://net1.valenciacollege.edu/future-students/degree-options/associates/diagnostic-medical-sonography/>).

### Current Students

Active Valencia students who are *pending program acceptance* may meet with the pending Allied Health Program Advisor in the campus Student Services department. For Information Sessions, Admission Guides, Program Applications, and the most updated information, visit the website at: <https://valenciacollege.edu/academics/programs/health-sciences/index.php> (<https://valenciacollege.edu/academics/programs/health-sciences/>). *Accepted, in-program* students will meet with their assigned Career Program Advisor after confirming acceptance.

## Program Outcomes

- Be prepared as competent entry level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domain.
- Perform effective communication skills within the healthcare environment.
- Provide a safe environment in the healthcare setting.
- Practice professional behaviors in a healthcare setting.
- Execute safe clinical decision making in medical imaging.

### Prerequisite for Admission

		Credit Hours
BSC 2093C	HUMAN ANATOMY AND PHYSIOLOGY I <sup>++~</sup>	4
BSC 2094C	HUMAN ANATOMY AND PHYSIOLOGY II <sup>++~</sup>	4
PHY 1007C	PHYSICS WITH MEDICAL APPLICATIONS <sup>*</sup>	4
MAC 1105	COLLEGE ALGEBRA <sup>++~</sup>	3
ENC 1101	FRESHMAN COMPOSITION I <sup>++~</sup>	3
PSY 2012	GENERAL PSYCHOLOGY <sup>+~</sup>	3
Humanities	See Gen. Ed. Core or Institutional Requirement ( <a href="http://catalog.valenciacollege.edu/degrees/associateinscience/asgeneraleducationrequirements/">http://catalog.valenciacollege.edu/degrees/associateinscience/asgeneraleducationrequirements/</a> ) <sup>++~</sup>	3
<b>Credit Hours</b>		<b>24</b>

### Year I

#### Fall Term

SON 1002C	METHODS OF PATIENT CARE <sup>*</sup>	2
HSC 1531	MEDICAL TERMINOLOGY <sup>+</sup>	3
SON 1003L	SONOGRAPHY PRACTICE LAB <sup>*</sup>	1
SON 1000	INTRODUCTION TO MEDICAL SONOGRAPHY <sup>++</sup>	3
SON 1000L	SONOGRAPHY INSTRUCTIONAL LAB I <sup>++</sup>	1
<b>Credit Hours</b>		<b>10</b>

#### Spring Term

SON 1804L	CLINICAL SONOGRAPHY I <sup>++</sup>	2
SON 1001	ABDOMINAL SONOGRAPHY I <sup>**+</sup>	3

SON 1001L	SONOGRAPHY INSTRUCTIONAL LAB II <sup>**+</sup>	1
RTE 2762	SECTIONAL ANATOMY <sup>++</sup>	3
<b>Credit Hours</b>		<b>9</b>
<b>Summer Term</b>		
SON 1614	SONOGRAPHIC PHYSICS I <sup>++</sup>	3
SON 1814L	CLINICAL SONOGRAPHY II <sup>**</sup>	2
SON 1112	ABDOMINAL SONOGRAPHY II <sup>++</sup>	3
SON 1112L	SONOGRAPHY INSTRUCTIONAL LAB III <sup>++</sup>	1
<b>Credit Hours</b>		<b>9</b>
<b>Year II</b>		
<b>Fall Term</b>		
SON 2121	OB/GYN SONOGRAPHY I <sup>++</sup>	3
SON 2824L	CLINICAL SONOGRAPHY III <sup>++</sup>	3
SON 2618	SONOGRAPHIC PHYSICS II <sup>++</sup>	3
SON 2150	NEUROSONOLOGY AND SUPERFICIAL STRUCTURES <sup>++</sup>	3
<b>Credit Hours</b>		<b>12</b>
<b>Spring Term</b>		
SON 2122	OB/GYN SONOGRAPHY II <sup>++</sup>	3
SON 2834L	CLINICAL SONOGRAPHY IV <sup>++</sup>	3
SON 2619	SONOGRAPHIC PHYSICS III <sup>++</sup>	2
<b>Credit Hours</b>		<b>8</b>
<b>Summer Term</b>		
SON 2061	SEMINAR IN SONOGRAPHY <sup>++</sup>	3
SON 2882L	MEDICAL SONOGRAPHY CLINICAL PRACTICUM <sup>++</sup>	2
<b>Credit Hours</b>		<b>5</b>
<b>Total Credit Hours</b>		<b>77</b>

+ This course must be completed with a grade of C or better.

\* This course has a prerequisite; check description in Valencia catalog.

~ This is a general education course.

### Notes:

All accepted applicants are required to submit applications through Valencia for a criminal background check, fingerprinting, and drug testing. Applicants for Valencia's Health Sciences Programs must be free of offenses that would disqualify them from a student clinical experience in a healthcare setting and must have their civil rights intact. This policy is in response to requirements by clinical agencies and state/federal regulations.

Specialized program courses are offered on the West Campus and may not be offered every session.

Upon earning the A.S. degree in Diagnostic Medical Sonography, eligible applicants can continue at Valencia to complete the Bachelor's degree in Radiologic and Imaging Sciences (<http://catalog.valenciacollege.edu/degrees/bachelorofscience/astobsradiologicimagingciences/>) or a bachelor-level Advanced Technical Certificate (ATC) in Echocardiography (<http://catalog.valenciacollege.edu/degrees/advancedtechnicalcertificates/echocardiography/>), Vascular Sonography, (<http://catalog.valenciacollege.edu/degrees/advancedtechnicalcertificates/vascularsonography/>) or Magnetic Resonance Imaging (MRI). (<http://catalog.valenciacollege.edu/degrees/>)

advanced technical certificates/magnetic resonance imaging/) Additional education at the bachelor's level and professional experience can enhance your skills and create more career opportunities.

Students who wish to continue their education should consult with their Program Advisor to determine the best education plan for their career goals.