

Diagnostic Medical Sonography

Associate in Science

DIVISION OF HEALTH SCIENCES

Fall Semester Start

Sonographers work in hospitals in specialized labs or general imaging units, physicians' offices such as OB/GYN clinics, or outpatient care centers. They are employed in medical and diagnostic labs and some work with imaging equipment companies that design, manufacture, and sell ultrasound equipment.

This program is designed to meet the educational needs of students pursuing a career in diagnostic medical sonography. This is a full-time program designed to be completed over six semesters (including two summers) and is designed for entry level employment in the profession.

The theoretical and clinical components of diagnostic medical sonography courses must be taken concurrently and sequentially, as outlined in the Sonography curriculum sheet.

Our program offers a robust curriculum that includes preparation for both ARRT (American Registry of Radiologic Technologists) and ARDMS (American Registry for Diagnostic Medical Sonography) certification exams.

Upon completion, the Associate in Science in Diagnostic Medical Sonography is awarded.

ADMISSIONS REQUIREMENTS

Applicants seeking admission to the Associate Degree Diagnostic Medical Sonography program are required to attend a recent information session. The times and dates for these sessions can be found at Information Session.

The first cohort of students applying to the program must have an Associate in Science degree in an Allied Health discipline or a Bachelor of Science degree.

Students seeking admission to the Associate Degree Diagnostic Medical Sonography program will be individually evaluated based on Grade Point Average (GPA) and performance on the Assessment Technologies Institute Test of Essential Academic Skills (ATI TEAS) exam.

To be considered for admission, students must have all the following:

- High school diploma or equivalent, or associate degree or higher
- An overall college GPA of 2.5 or higher
- Students must achieve passing scores on the ATI TEAS. Passing scores are defined as a minimum composite score of 63%.
- Students may repeat the TEAS test twice within 12 months of taking it. Results are valid for three years.

Applicants must also meet the following additional criteria for acceptance into the diagnostic medical sonography program:

- Completion of a three-credit (3) College Algebra or Statistics course. At MassBay College, Algebra (MA 102) or Introduction to Statistics (MA 105) with a grade of C or higher.¹
- Completion of BI 215 Anatomy and Physiology I and BI 217 Anatomy and Physiology II * within a five-year time frame with a grade of C+ or higher at the time student records are reviewed for matriculation into the diagnostic medical sonography program (Note: students may repeat each science course only once to achieve a C+ within the required 5-year period). Challenge examinations are available for BI 215 Anatomy and Physiology I and BI 217 Anatomy and Physiology II if the applicant has completed the coursework, including the associated labs, with a grade of C+ or higher beyond the five-year limit.
- Completion of a 3-credit (3) Medical Terminology (MassBay HL 103) with a grade of C or higher.

PREFERENTIAL ELIGIBILITY

Preferential eligibility for admissions to this program includes applicants who:

- Have completed other general education courses required in the AS Diagnostic Medical Sonography program.

Once students have been admitted to the program, the following pre-program requirements must be completed:

Required Pre-Entry Documentation:

- After being admitted into a Health Sciences program, students will receive instructions on uploading required health documentation to an online platform. Students must submit all documents by the published deadline to be eligible to start Health Sciences classes.
- Medical clearance and proof of immunizations as outlined in the Division of Health Sciences handbook and admission paperwork.
- Documentation from a healthcare provider stating that you have a positive Hepatitis B Antibody titer or have completed the Hepatitis B vaccine series and are a "non-responder" to the vaccine. You must allow a minimum of 6 months to complete this process.
- Proof of CPR certification. The Basic Life Support (BLS) Provider Card (from the American Heart Association) meets this requirement. (Copies of both sides and a valid signature or e-card are required).
- The student must complete the CORI /SORI (Criminal/Sex Offender Record Information) to authorize a search of conviction and pending criminal case information under Standard Required Level 1 by DCJIS (Department of Criminal Justice Information Services). The CORI/SORI completion process is part of the New Student Orientation. If there is a finding of criminal convictions or "open cases," the student will be ineligible to participate in the clinical component of

the program. A National County Criminal Background check will be conducted as part of the students' completion of the clinical requirements. More information is available in the Division of Health Sciences pages on the MassBay website.

PROGRAM FOOTNOTES

All Diagnostic Medical Sonography (DS) courses must be completed with a grade of C+ (77%) or higher.

Quantitative skills is a MassBay graduation competency for associate degree programs. Prior to graduation, students must demonstrate this competency by completing a 100-level math course (not MAC); or placing into a 200-level mathematics course.

This program qualifies as an Alternative Transfer Agreement (MassTransfer) with select public institutions in Massachusetts. For more information, visit www.mass.edu/masstransfer.

Diagnostic Medical Sonography Program Prerequisites

Prerequisites		
COURSE	COURSE TITLE	CREDITS
BI 215 *	Anatomy and Physiology I w/ Lab*	4
BI 217	Anatomy and Physiology II w/ Lab*	4
HL 103	Medical Terminology	3
MA 102 or 105	College Algebra or Introduction to Statistics	3
Prerequisites Total		14

* BI 101 or BI 110 (4 credits) prerequisite

Associate degree: Diagnostic Medical Sonography Program Curriculum

COURSE	COURSE TITLE	CREDITS
<i>First Year</i> <i>Semester I (Fall)</i>		
DS 100	Introduction to Sonography	1
HL 117	Soft Skills for Medical Professionals	3
DS 101	Sonography Patient Care	1
DS 102	Abdominal Sonography I w/Lab	3
PY 101	College Physics I w/Lab	4
EN 101	English Composition I	3
		credits: 15

<i>First Year</i> <i>Semester II (Spring)</i>		
DS 110	Abdominal Sonography II w/Lab	3
DS 111	Sonographic Physics and Instrumentation I	3
DS 112	Superficial Structures w/Lab	2
DS 113	Gynecological and First Trimester Obstetrics w/Lab	3
HL 124	Medical Ethics	3
		credits: 14
<i>First Year</i> <i>Semester III (Summer)</i>		
DS 120	Clinical Introduction	1
DS 121	Sonographic Physics and Instrumentation II	2
DS 122	Obstetrical Sonography I w/Lab	3
		credits: 6
<i>Second Year</i> <i>Semester IV (Fall)</i>		
DS 200	Obstetrical Sonography II w/Lab	3
DS 201	Introduction to Vascular Technology w/lab	3
DS 202	Clinical Education I	3
CT 100	Critical Thinking ³	3
		credits: 12
<i>Second Year</i> <i>Semester V (Spring)</i>		
DS 210	Sonography Subspecialties	2
DS 211	Sonographic Analysis	2
DS 212	Advanced Physics and Instrumentation	1
DS 213	Clinical Education II	4
EN 102	English Composition II	3
PS 101 or SO 101 or SO 120	Social Science Elective ²	3
		credits: 15
<i>Second Year</i> <i>Semester VI (Summer)</i>		
DS 220	Sonography Seminar	1
DS 221	Sonography Capstone	1
DS 222	Clinical Education III	4
		credits: 6
Total Program Credits		68

¹ Based on college placement testing, additional coursework may be required. Students are urged to meet with their academic advisor for proper course sequencing.

² PS 101 Introduction to Psychology, SO 101 Introduction to Sociology, or SO 120 Disabilities: Diagnosis and Interventions.

³ CT 100 Critical Thinking fulfills the humanities elective and the MassBay graduation competency.