

Health Sciences

Bachelor of Science in Comprehensive Medical Imaging with Emphasis in Diagnostic Medical Sonography (DMS)

Program Description

Students seeking the Bachelor of Science in Comprehensive Medical Imaging with an emphasis in Diagnostic Medical Sonography (DMS) program at GBC must complete a prerequisite associate degree or higher from a regionally accredited institution and all DMS program prerequisite courses to apply.

Students successfully completing the BS in CMI with emphasis in DMS are eligible to apply for ARDMS examinations under Prerequisite 3B or Prerequisite 2.

Prerequisite Requirements

- Hold an associate degree or higher awarded by a regionally accredited college. The prerequisite degree curriculum must include, at a minimum:
 - MATH 126, 126E or higher
 - General college level physics and/or radiographic physics (RAD 118 or PHYS 100)
 - Communications skills (ENG 102 or COM 113)
 - Human Anatomy and Physiology (BIOL 223 & 224)
 - Patient care (NURS 130 or EMS 118)
 - Medical terminology (RAD 112, EMS 204 or NUR 140)
- Attend an interview.

Licensure

Upon successful completion of the BS in CMI with emphasis in DMS, students will be eligible to apply for the examination for licensure by the American Registry for Diagnostic Medical Sonography (ARDMS) in general sonography.

Program required courses:

*In addition to prerequisites, students are encouraged to complete the courses marked with an asterisk prior to applying to the program.

Program Requirements		Credits
General Education:		
ENG	101	Composition I 3
ENG	102	Composition II 3
COM	113	Fundamentals of Speech Communication 3
MATH	126 or 126E	Precalculus I or higher..... 3-6
BIOL	190	Introduction to Cell and Molecular Biology.....4
PHYS	100	Introductory Physics, or
RAD	118	Radiology Physics and Circuitry 3
HMS	200	Ethics in Human Services..... 3

PSC	101	Introduction to American Politics..... 3
Humanities		(lower division)..... 3
Fine Arts		(lower division)..... 3
INT	359	Integrative Math Seminar, or
HSC	300	Statistics for Health Sciences 3
BIOL	223	Human Anatomy and Physiology.....4
BIOL	224	Human Anatomy and Physiology II.....4
NURS	140	Medical Terminology, or.....3
RAD	112	Patient Care and Medical Terminology...2
NURS	130	Nursing Assistant.....6
		or other Certified Nursing Course
ELECTIVES	 14-15

Total General Education Credits: 65-68 credits

Due to the technical nature of this program, the general education technology requirement is embedded into this program.

*NURS	337	Pathophysiology.....3
CMI	350	Ultrasound Physics and Instrumentation.....4
CMI	351	Abdominal Ultrasound.....3
CMI	352	Gynecologic Ultrasound.....3
CMI	353	Obstetric Ultrasound.....3
CMI	354	Vascular Ultrasound.....1
CMI	366	Abdominal Ultrasound II.....2
*CMI	376	Sectional Anatomy in Medical Imaging..3
CMI	378	Small Parts Ultrasound.....1
CMI	400	Introduction to Clinical Imaging Experience.....2
CMI	486	Diagnostic Medical Imaging Clinical Experience I.....9
CMI	487	Diagnostic Medical Imaging Clinical Experience II.....7
CMI	488	Diagnostic Medical Imaging Clinical Experience III.....10
CMI	491	Sonography Review Topics1
CMI	492	Comprehensive Medical Imaging Capstone.....3

Total Program Specific Requirements: 55 credits

Total BS Program Credits: 120

SUGGESTED COURSE SEQUENCE

**Bachelor of Science
Comprehensive Medical Imaging with
Emphasis in
Diagnostic Medical Sonography (DMS)
(Plan for completing all program
requirements at GBC)**

FALL—1st Semester		Credits
ENG 101		3
MATH 126, 126E or Higher		3
BIOL 190		4
NURS 140		3
FINE ARTS*		3
TOTAL		16

SPRING—2nd Semester		Credits
PSC 101		3
ENG 102		3
BIOL 223		4
HMS 200		3
ELECTIVE**		3
TOTAL		16

FALL—3rd Semester		Credits
NURS 130		6
BIOL 224		4
MATH 127 or STAT 152		3
ELECTIVE**		3
TOTAL		16

SPRING—4th Semester		Credits
PHYS 100		3
COM 113		3
ELECTIVE**		3
ELECTIVE**		2
HUMANITIES*		3
TOTAL		14

Award Associates of Science Degree

FALL—5th Semester		Credits
CMI 350		4
CMI 351		3
CMI 353		3
CMI 354		1
CMI 376		3
NURS 337		3
TOTAL		17

WINTER—6th Semester		Credits
CMI 400		2
TOTAL		2

SPRING—7th Semester		Credits
CMI 352		3
CMI 486		9
CMI 366		2
CMI 378		1
ELECTIVE**		2
TOTAL		17

SUMMER—8th Semester		Credits
CMI 487		7
INT 359 or HSC 300		3
TOTAL		10

FALL—9th Semester		Credits
CMI 488		10
CMI 491		1
CMI 492		3
TOTAL		14

Minimum Credits: 122

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****Choose with an advisor**

SUGGESTED COURSE SEQUENCE

**Bachelor of Science
Comprehensive Medical Imaging with
Emphasis in
Diagnostic Medical Sonography (DMS)
(Plan for students transferring in with regionally
accredited associate degree or higher and all
prerequisite courses)**

Prerequisite Degree	Credits
Minimum of 60 Credits	60

FALL—1st Semester	Credits
CMI 350	4
CMI 351	3
CMI 353	3
CMI 354	1
CMI 376	3
NURS 337	3
TOTAL	17

WINTER—2nd Semester	Credits
CMI 400	2
TOTAL	2

SPRING—3rd Semester	Credits
CMI 352	3
CMI 366	2
CMI 378	1
CMI 486	9
INT 359 or HSC 300	3
TOTAL	18

SUMMER—4th Semester	Credits
CMI 487	7
ELECTIVE**	2
TOTAL	9

SPRING—5th Semester	Credits
CMI 488	10
CMI 491	1
CMI 492	3
TOTAL	14

Minimum Credits: 120

***Select from page 82**

****Choose with an advisor**