

Radiologic Science Major: Diagnostic Medical Sonography with Echocardiography/ Vascular Emphasis - BS

Major requirements

(College of Science and Health)

Admission

Admission to the program is on a competitive basis. The number of students admitted to the major is dependent on the number of clinical internship sites and their student capacity. The clinical internship sites are affiliated professional and accredited schools of Diagnostic Medical Sonography. Applications are available on each clinical internship/school of diagnostic medical sonography website (linked below) or on UWL's Diagnostic Medical Sonography Program (<https://www.uwlax.edu/academics/department/health-professions/academic-programs/diagnostic-medical-sonography/>) website.

1. Students are advised to apply for admission to the professional program early in the late fall prior to desired admission, after having taken or registered for all general education and pre-professional requirements.
2. Applicants are required to have a minimum cumulative grade point average of 3.0 on a 4.0 scale and a grade of "C" or higher in all general education and pre-professional courses. Applicants are required to have a minimum pre-professional grade point average of 3.0 on a 4.0 scale.
3. Students must have a recent set of immunizations prior to admission to comply with clinical internship policy.
4. Applicants are considered without regard to sex, race, color, creed, religion, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status, or parental status.
5. Students for whom English is a second language must earn a minimum score of 600 (paper-based), 250 (computer-based), or 100 (internet-based) on the Test of English as a Foreign Language (TOEFL) or a score of 6.5 on the International English Language Testing System (IELTS) exam within two years prior to application to the program.
6. Students will need to have their current CNA with 100 hours of documented patient care experience.
7. Students must have current CPR certification in adult, child and infant through the AHA with the Basic Life Support CPR.
8. Students must have completed eight hours of job shadowing in ultrasound. See program website for specific requirements of job shadowing.
9. Applications must be submitted in full by mid-December deadline to the school of diagnostic medical sonography.

Selection process

The university sponsors the number of students which are accepted to affiliated, professional schools of diagnostic medical sonography which serve as the clinical internship sites. The size of the program is limited by these internships. Students must make formal application

to the various diagnostic medical sonography programs during the fall semester of their second year. Refer to the sample degree plan tab.

The clinical internship/schools of diagnostic medical sonography maintains a selection committee. The committee evaluates each application on the basis of the applicant's past academic performance (a minimum cumulative GPA of 3.0 is required for admission into the professional program), their references, their past work experience, and the results of a formal interview. Based on these factors, the applicants are ranked and accepted for entry into the professional program.

Acceptance is effective at the beginning of the third year and conditional upon successful completion of courses in progress at the time of notification of acceptance. Selection is also conditional upon students' compliance with state laws for caregivers including submission to a criminal background check.

Diagnostic Medical Sonography Program affiliated clinical internship sites:

- University of Wisconsin Hospital, Madison, WI (<https://careers.uwhealth.org/diagnostic-sonography-ultrasound-school/>)
- Mayo Clinic School of Health Sciences Sonography Program, Rochester, MN (<https://college.mayo.edu/academics/health-sciences-education/sonography-program-florida-and-minnesota/>)¹

¹ General vascular students who are admitted to Mayo Clinic School of Health Sciences (MCSHS) to complete the required two year-long program at the MCSHS enroll at MCSHS rather than at UW-La Crosse. The courses taken during the two year-long program at MCSHS meet UW-La Crosse DMS-General/Vascular Program requirements. The student must request an official transcript be sent to UW-La Crosse from MCSHS. Upon successful completion of the program and all other graduation requirements, the students are awarded the Bachelor of Science degree from UW-La Crosse. The Mayo School of Health Sciences (MCSHS) grants a certificate of completion in diagnostic medical sonography.

Curriculum

102 total credits, including internship

Retention of good standing in the program requires students maintain a grade of "C" or higher in all required courses, as well as a semester and cumulative grade point average of 3.0 on a 4.0 scale.

Code	Title	Credits
Pre-professional requirements		
BIO 105	General Biology ²	4
BIO 312	Human Anatomy and Physiology I	4
BIO 313	Human Anatomy and Physiology II	4
CHM 103	General Chemistry I	5
HP 250	Medical Terminology for Health Professions	1
HP 310	Pathophysiology	4
MTH 150	College Algebra ^{2,3}	4
or MTH 151	Precalculus	
or MTH 175	Applied Calculus	
or MTH 207	Calculus I	
PSY 100	General Psychology ²	3
PHY 134	Physics for Nuclear and Radiological Sciences	4
Total Credits		33

Code	Title	Credits
Clinical internship requirements ⁴		
Year 3 Fall		
DMS 301	Introduction to Diagnostic Medical Ultrasound	3
DMS 302	Vascular Sonography I	3
DMS 310	General/Vascular Clinical Education I	3
DMS 326	Abdominal Sonography I	3
DMS 330	OB/GYN Sonography I	3
Year 3 Spring		
DMS 303	Vascular Sonography II	3
DMS 304	Sonographic Principles and Instrumentation	3
DMS 311	General/Vascular Clinical Education II	3
DMS 327	Abdominal Sonography II	3
DMS 331	OB/GYN Sonography II	3
Year 3 Summer		
DMS 312	General/Vascular Clinical Education III	3
DMS 332	OB/GYN Sonography III	3
DMS 428	Abdominal Sonography III	3
Year 4 Fall		
DMS 401	Vascular Sonography III	3
DMS 410	General/Vascular Clinical Education IV	3
DMS 420	Specialized Sonography	3
DMS 421	Seminar in OB/GYN: Introduction to Fetal Echocardiography	3
DMS 422	Introduction to Neurosonography	3
Year 4 Spring		
DMS 402	Seminar in Professional Development	3
DMS 403	Seminar in Management, Research, and Education	3
DMS 404	Seminar in Advanced Medical Imaging: Vascular	3
DMS 411	General/Vascular Clinical Education V	3
DMS 423	Introduction to Musculoskeletal Sonography	3
Total Credits		69

² This course will also fulfill general education requirements.

³ Students whose math placement exam places them in MTH 151 or higher are not required to take MTH 150, but are required to meet minimum requirements of the General Education: Mathematical/Logical Systems and Modern Languages Category. STAT 145 is encouraged.

⁴ Students in this major are exempt from the General Education Program's writing emphasis requirements and will instead be expected to meet the writing requirements from the accredited off-campus curriculum.

Degree requirements

All students must complete the general education, college core (waived for radiologic science majors), major/minor, and university degree requirements in order to qualify for a degree. The easiest way to track all of these requirements is to refer to the Advisement Report (AR) found in the Student Information System (WINGS) Student Center. All enrolled students have access to the AR.

- General education (<http://catalog.uwlax.edu/undergraduate/generaleducation/>)
- Baccalaureate degree requirements (p. 2)

Baccalaureate degree requirements

Candidates for the Bachelor of Arts or the Bachelor of Science degrees must accomplish the following:

1. Fulfill the general education requirements.
2. Complete at least one ethnic studies (diversity) course.
3. Complete the courses prescribed by the Undergraduate Curriculum Committee for the degree desired in the respective school or college.
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA.^{1,2}
5. At least 40 credits must be earned in 300/400 level courses. Transfer courses earned or transferred at the 300/400 level apply to this requirement.
6. Complete major and minor requirements with at least a 2.00 GPA^{1,2} in each major and minor (and concentration or emphasis, if selected).
7. A minimum of 30 semester credits in residence at UWL is required for graduation. (See undergraduate resident requirement (<http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/#undergraduate-residence-requirement>.)
8. Submit an application for graduation via the "Apply for Graduation" link in the WINGS Student Center as soon as the student has registered for his or her final semester or summer term in residence. December and winter intersession graduates should apply by May 1. May and summer graduates should apply by December 1.

¹ Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be required to earn credits in excess of the 120 needed for graduation in any curriculum in order to replace credits earned in courses in which the content has changed substantially in recent years. Each case will be judged on its own merit.

² The grade point average recorded at the time the degree is awarded will not be affected by future enrollment.

No degree will be awarded unless all requirements are fulfilled and recorded within 30 days after the official ending date of each term.

Sample degree plan

Below is a sample degree plan that can be used as a guide to identify courses required to fulfill the major and other requirements needed for degree completion. A student's actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Also, this sample plan assumes readiness for each course and/or major plan, and some courses may not be offered every term. Review the course descriptions or the class timetable (<http://www.uwlax.edu/records/regISTRATION/>) for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UWL in the fall term. Students should use the Advisement Report (AR) in WINGS (<https://wings.uwlax.edu>) and work closely with their faculty advisor(s) and college dean's office to ensure declaration and completion of all requirements in a timely manner.

General Education Program

The general education curriculum (Gen Ed) is the common educational experience for all undergraduates at UWL. Sample degree plans include Gen Ed placeholders to ensure completion of the general education requirements. Courses may be rearranged to fit the needs or recommendations of the student's program of study. Gen Ed courses

may be taken during winter term (January between the semesters) and summer to reduce the course load during regular terms (fall and spring). Students should consult with their advisor and/or the college academic services director in their college/school for assistance with course and schedule planning. Refer to the general education requirements (<http://catalog.uwlax.edu/undergraduate/generaleducation/>) for more specific details.

At least 40 credits of the 120 credits required must be earned at the 300/400-level.

Note: New students and transfer students with less than 12 credits earned are required to take FYS 100 First-Year Seminar (3 cr.) during one of their first two semesters at UWL.

This sample degree plan does not establish a contractual agreement. It identifies the minimum requirements a student must successfully complete, to qualify for a degree, in a format intended to assist the student in planning their academic career. Actual degree plans may differ.

This major is exempt from the CSH College Core requirement.

Year 1			
Fall	Credits	Spring	Credits
FYS 100 (Gen Ed First-Year Seminar)	3	CHM 103 (Gen Ed Natural Lab Science) ¹	5
BIO 105 (Gen Ed Natural Lab Science) ¹	4	CST 110 (Gen Ed Literacy-Oral)	3
MTH 150 (Gen Ed Math/Logical Systems) ^{1,2}	4	Gen Ed World History	3
ENG 110 or 112 (Gen Ed Literacy-Written)	3	Gen Ed Math/Lang/Logical Systems	4
14		15	

Year 2			
Fall	Credits	Spring	Credits Summer Credits
BIO 312	4	BIO 313	4 HP 310 ³ 4
PSY 100 (Gen Ed Self and Society) ¹	3	HP 250	1
Gen Ed Health & Well-Being	3	PHY 134	4
Gen Ed Global Studies	3	Gen Ed Humanistic Studies	3
Gen Ed Arts	2-3	Gen Ed Minority Studies	3
Apply to UW Health DMS program by mid-December deadline		Gen Ed Arts	2-3
15		17 4	

Year 3			
Fall	Credits	Spring	Credits Summer Credits
DMS 301	3	DMS 303	3 DMS 315 3
DMS 302	3	DMS 304	3 DMS 320 3
DMS 313	3	DMS 314	3 DMS 321 3
DMS 316	3	DMS 318	3
DMS 317	3	DMS 319	3
15		15 9	

Year 4		
Fall	Credits	Spring Credits
DMS 401	3	DMS 402 3
DMS 413	3	DMS 403 3
DMS 430	3	DMS 414 3
DMS 431	3	DMS 433 3
DMS 432	3	DMS 404 3
15		15

Total Credits: 134

- ¹ This course will also fulfill general education requirements.
- ² Students whose math placement exam places them in MTH 151 or higher are not required to take MTH 150, but are required to take STAT 145 and meet minimum requirements of the General Education: Mathematical/Logical Systems and Modern Languages Category.
- ³ This course should be taken off-campus during the summer.