

Diagnostic Medical Sonographers use high frequency sound waves to produce images and data that assist health care professionals diagnose various disease and disease processes. Sonographers are taught to work independently and to operate highly technical ultrasound equipment to acquire sonographic images. Physicians depend on the sonographer's assistance with interpretation of the images to evaluate many body parts and structures, especially of the abdomen and pelvis.

Students enter the professional sequence of the program in the fall semester and spend the first three semesters on the Big Rapids campus. Studies during this period include general education and technical courses. Laboratory periods provide an opportunity to apply the theory and principles learned in the lecture sessions. During the final three semesters students work with patients in an off campus clinical center. These sites are located throughout the state in hospitals affiliated with the University to provide clinical experience and continued academic instruction.

Graduates of the program are eligible to write the American Registry of Diagnostic Medical Sonographers (ARDMS) Sonography Principles and Instrumentation Examination as well as the Abdomen, and Obstetrics and Gynecology specialty exams. The FSU Sonography Program is accredited by the Commission on Accreditation of Health Professions Educational Programs (CAAHEP).

### Course Requirements

Alpena Community College			
Course	FSU Equiv.	Course Title	Cr. Hrs.
SPE 121	COMM 105	Speech Communication	3
ENG 111	ENGL 150	English 1	3
or ENG 121			
ENG 112	ENGL 250	English 2	3
or ENG 122			
BIO 110	BIOL 109	Essential of Anatomy & Physiology	4
or BIO 200		Anatomy & Physiology for Allied Hlth	6
PHY 121	PHYS 211	General College Physics 1	4
MTH 113	MATH 115	Intermediate Algebra	4
PSY 101	PSYC 150	General Psychology	4
BIS 160	MRIS 103	Medical Terminology	2
	(sub for COHP 100)*		
<b>Total Alpena Community College Credits</b>			<b>27-29</b>

It is important to review the **Application to the Professional Sequence – Course Qualifiers** chart that follows. For more information, see [www.ferris.edu/chp](http://www.ferris.edu/chp), from the **All Degrees drop-down** heading in the red bar, choose **Diagnostic Medical Sonography AAS** program, click on the information links in the side column.

#### FSU General Education Requirements can be found at:

<http://www.ferris.edu/HTMLS/academics/gened/index.htm>.

Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding classes that meet the MTA.

Students are encouraged to work with their Ferris advisor for selection of any electives, to ensure transferability and to minimize credits taken.

Ferris State University		
Course	Course Title	Cr. Hrs.
COHP 101	The US Health Care Systems	3
COHP 102	Safety Issues in Health Care	1
PHIL 220	Ethics in Health Care	3
or PHIL 230	or Biomedical Ethics	
SONO 100	Introduction to DMS	1
SONO 102	Intro to Sonographic Imaging	1
SONO 104	Intro to Ultrasound Physics	3
SONO 105	Sonography Physics Prin Lab	2
SONO 111	Pathophys of Abdominal Organs	3
SONO 112	Abdominal Imaging Lab	3
SONO 115	Sono Cross Sectional Anatomy	1
SONO 117	Intro to Sonographic Interpret	2
SONO 121	Introduction to OB/GYN Imaging	3
SONO 122	OB/GYN Imaging Lab	2
SONO 131	Hemo and Doppler Prin of Sono	1
SONO 132	Hemodynamics – Doppler Lab	3
SONO 280	Clinical Internship 1	8
SONO 281	Small Parts and Invasive Proc	4
SONO 282	Clinical Internship 2	8
SONO 283	Obstetrical – Gynecology Imag 2	4
SONO 284	Clinical Internship 3	8
SONO 285	Sonographic Interpretation 2	4
SONO 287	Management in DMS	1
<b>Total Ferris Credits</b>		<b>70</b>

**Credits Required for Degree** **84**

Program Offered at:  
**Main Campus, Big Rapids**  
 College of Health Professions  
 (231) 591-2270  
[www.ferris.edu/chp](http://www.ferris.edu/chp)  
 CHP@ferris.edu

[www.ferris.edu/transfer](http://www.ferris.edu/transfer)

### General Admission Criteria

An overall minimum 2.5 cumulative grade point average is required for admission into the College of Health Professions. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application. Financial aid is available and may include concurrent enrollment at both institutions.

Applications may be submitted for the professional sequence once you have completed the course qualifiers listed below. This chart indicates the minimum requirements needed to qualify for the professional sequence. Applications to begin the professional sequence are accepted January 15 – January 30.

Application to the Professional Sequence – Course Qualifiers	Minimum Credits	Minimum Grade Required
Math Competency – MATH 115 or MATH 117 <ul style="list-style-type: none"> <li>• ACT math sub score of 24 or higher</li> <li>• No more than 2 attempts (including withdraws)</li> </ul>	3-4	ACT Score or B-
BIOL 109 Anatomy & Physiology <ul style="list-style-type: none"> <li>• No more than 2 attempts (including withdraws)</li> </ul>	4	B-
PHYS 130 Concepts in Physics	4	B-
ENGL 150 English 1	3	C
COHP 100 Medical Vocabulary	1	C

### Advising Notes

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of general education or elective course work may reduce the chance of completing a course that will not apply toward the selected degree. Once admitted, students must continue to meet with an advisor as they work toward graduation.

### Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation.

### Online Learning

Select courses delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Ferris Main Campus or at an off-campus location). The “Online Readiness Tutorial” is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in Blackboard skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

### Reverse Transfer Agreement

The Community College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the community college and Ferris.

### Michigan Transfer Agreement (MTA)

Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand-alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

### Disclaimer

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to the effective and/or revised date on the bottom of the guide.