



60 Livingston Blvd., Gaylord, MI 49735

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**CARDIAC SONOGRAPHY ULTRASOUND  
ASSOCIATE IN APPLIED SCIENCE  
COURSE OUTLINE**

(See minimum grade requirement for each class in chart below)

**Prerequisite/General Education Courses**

Course Number	Course Title	Credits	Minimum Grade Required
ALH-10101	Medical Terminology	2	C
BIO-10700	Essentials of Anatomy & Physiology	4	B
or BIO 23500 & 23600	Anatomy & Physiology I & II	4/4	C
MTH-12000	Intermediate Algebra	4	C
CIS-10500	Introduction to Computers	3	C
ENG-10000	Writing Lab, if required	1	S
ENG-10303	English Composition I w/ Computers	3	C
Professional CPR (see advisor prior to taking)	ALH-20203	.5	S
PSY-10100	Introduction to Psychology	3	C
POL-10100	Introduction to American Government	3	C
ENG-10403	English Composition II w/ Computers	3	C
SPE 10500 or 11400	Speech Elective	3	C
(see catalog)	Humanities Elective	3	C

**Program Courses – Program admission required.**

(Courses must be taken in sequence and include summer semester.)

Semester One Course Number	Course Title	Credits	Minimum Grade Required
SON-10000	Intro to Sonography Patient Care	2	C+
SON-10500	Cardiac Anatomy & Physiology	3	C+
SON-11000	Ultrasound Physics	3	C+
SON-11600	Cardiac Principles I	3	C+
SON-11700	Cardiac Principles Lab I	4	C+
Semester Two Course Number	Course Title	Credits	Minimum Grade Required
SON-12500	Echo I	3	C+
SON-13100	Cardiac Principles II	3	C+
SON-13200	Cardiac Principles Lab II	4	C+
SON-13500	Clinical Practice I	2	S
Semester Three Course Number	Course Title	Credits	Minimum Grade Required
SON-15000	Echo II	3	C+
SON-15600	Cardiac Principles III	3	C+
SON-15700	Cardiac Principles Lab III	4	C+
SON-16000	Clinical Practice II	2	S
Semester Four Course Number	Course Title	Credits	Minimum Grade Required
SON-22000	Externship - MAY BE LOCATED OUT OF STATE	15.5	S