CENTRAL CAROLINA COMMUNITY COLLEGE

Health Sciences

Program Planning Guide

Medical Sonography Associate in Applied Science Degree (A45440)

Program Length: 5 Semesters
Program Sites: Lee Main Campus seated only

The Medical Sonography program teaches students how to use high-frequency sound waves (ultrasound) to create images of the inside of the body. Medical sonographers use this technology to help doctors see organs, tissues, and blood flow so they can diagnose and monitor medical conditions. Students in the program learn about anatomy, how the body's systems work together, and how to capture clear, accurate images. Coursework covers topics such as physics, abdominal and vascular imaging, and obstetric/gynecologic sonography. Students also gain hands-on experience operating ultrasound equipment, understanding normal and abnormal findings, tracking fetal growth, and providing professional, compassionate care to patients.

Graduates are eligible to take examinations in ultrasound physics and instrumentation, as well as specialty examinations administered by the American Registry for Diagnostic Medical Sonography (ARDMS), and find employment in clinics, physicians' offices, mobile services, hospitals, and educational institutions.

Limited Enrollment Program:

This is a Limited-Enrollment program, which means the program has a set number of seats available for each entering class. The number of seats is based on factors such as classroom space, available clinical placements, accreditation requirements, and faculty resources. Students interested in this program will work with an Education Navigator to develop an academic plan and register for the courses needed to meet the minimum admission requirements. Once all minimum requirements are completed, a program application can be submitted. Qualified applicants are admitted in the order completed applications are received, as seats become available. For more information, visit the Limited-Enrollment Programs webpage.

Minimum Admission Requirements:

- ☐ Complete 25/26 credit hours of Pre-MS general education courses (see page 2).
- ☐ Complete BIO 163 and PHY 110/110A with a B or better.
- ☐ Complete all other general education courses with a C or better.
- ☐ Have a minimum 2.5 GPA based on 25/26 credit hours of MS general education courses.

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Pre-MS General Education Requirements & Suggested Course Schedule:

Course Schedule		Class	Lab	Clinical	Credits	Notes:
1st Semester (fall)						
ACA 122	Transfer & Career Success	0	2	0	1	Seated or online
ENG 111	Writing & Inquiry	3	0	0	3	Seated or online
PHY 110	Conceptual Physics	3	0	0	3	Seated or online
PHY 110A	Conceptual Physics Lab	0	2	0	1	Seated or online
PSY/SOC	PSY 150 or SOC 210	3	0	0	3	Seated or online
	Total Semester Hours	**9**	**4**	**0**	**11**	
2nd Semester (spring)						
BIO 163	Basic Anatomy & Physiology	4	2	0	5	Seated
Elective	Communications Elective	3	0	0	3	Seated or online
Elective	Mathematics Elective	2/3	2	0	3/4	Seated or online
PHI 240	Introduction to Ethics	3	0	0	3	Seated or online
	Total Semester Hours	**12/13**	**4**	**0**	**14/15**	

A minimum grade of B must be earned in all science classes (BIO 163 and PHY 110/110A). A minimum grade of C must be earned in all other classes for the medical sonography program.

Communication/English Elective Options: Pick one: COM 110, **COM 120***, COM 231, ENG 111, ENG 112, ENG 114

Mathematics Elective Options: Pick one: MAT 143, MAT 152, or MAT 171. Students can also take PHY 151 and MAT 171 in place of PHY 110/11A and MAT 143 or in place of PHY 110/110A and MAT 152

Approved Biology Substitutions: Can substitute BIO 165/166 or BIO 168/169 for BIO 163

*Recommended for MS students

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Upon acceptance into the Medical Sonography program, students will take the following courses:

Course Schedule		Class	Lab	Clinical	Credits	Notes:
1st Semester (fall)						
SON 110	Introduction to Sonography	1	3	3	3	Seated
SON 111	Sonogram Physics	3	3	0	4	Seated
SON 130	Abdominal Sonography I	2	3	0	3	Seated
	Total Semester Hours	**6**	**9**	**3**	**10**	
2nd Semester (spring)						
SON 120	SON Clinical Education I	0	0	15	5	In-person clinical rotation
SON 131	Abdominal Sonography II	1	3	0	2	Seated
SON 140	Gynecologic Sonography	2	0	0	2	Seated
SON 241	Obstetrical Sonography I	2	0	0	2	Seated
	Total Semester Hours	**5**	**3**	**15**	**11**	
3rd Semester (summer)						
SON 121	SON Clinical Education II	0	0	15	5	In-person clinical rotation
	Total Semester Hours	**0**	**0**	**15**	**5**	
4th Semester (fall)						
SON 220	SON Clinical Education III	0	0	24	8	In-person clinical rotation
SON 242	Obstetrical Sonography II	2	0	0	2	Seated
SON 250	Vascular Sonography	1	3	0	2	Seated
	Total Semester Hours	**3**	**3**	**24**	**12**	

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5th Semester (spring)						
SON 221	SON Clinical Education IV	0	0	24	8	In-person clinical rotation
SON 225	Case Studies	0	3	0	1	Seated
SON 289	Sonographic Topics	2	0	0	2	Seated
	Total Semester Hours	**2**	**3**	**24**	**11**	
Total General Education Semester Hours Credit: 25/26						
Total Program Semester Hours Credit: 49						
Total Semester Hours Credit Required to Graduate: 74/75						