



Vascular Sonography – Associate in Applied Science (VSON.AAS)

A highly-skilled allied health professional, a vascular sonographer performs arterial and venous diagnostic procedures using high-frequency sound waves. A vascular sonographer operates a variety of complex diagnostic and monitoring equipment and numerous ancillary devices.

The vascular sonographer performs carotid duplex scanning, lower and upper extremity Doppler examinations, venous duplex scans, abdominal vascular exams, evaluates test results, monitors physiological states of the patient, conducts patient education, and maintains accurate records and protocols during and after procedures. A thorough understanding of hemodynamics and pathophysiology is required.

The vascular sonography program is an online program accredited by the Commission for Accreditation of Allied Health Education Programs (CAAHEP) in the United States. It is a program leading to an Associate in Applied Science degree. The program is outcome-based, and the curriculum consists of integrated educational and clinical coursework with a maximum of 1,000 supervised clinical hours with an approved clinical education affiliate. The mastery and performance proficiency level are assessed in the final clinical semester. Learners will be eligible for early completion during the last clinical semester.

The program is designed to prepare the student for employment in vascular sonography. Vascular positions are located within hospitals, medical clinics, and other diagnostic imaging health institutions. Upon successful completion, students are eligible to apply for certification exams through the American Registry for Diagnostic Medical Sonography and, if successful, use the credentials RVT (Registered Vascular Technologist).

There are special admission requirements to the sonography programs, and it is the student's responsibility to understand and adhere to them. Entry into a program is competitive and based on a "point system." Point values are based on grades earned in

prerequisite coursework and the interview process.

Applications are processed according to the following:

- The Allied Health Office must receive applications by January 31.
- Vascular Technology Admission Committee conducts consultations for clinical site placements.
- Students are notified by mail of application consultation results.
- Accepted students begin the summer semester.

General education prerequisites and related requirement courses must be completed before admission to the program.

Minimum credits: 74

Minimum cumulative GPA: 2.0

Minimum grade in all courses: 2.0

Minimum grade in BIO 132 or BIO 253/254, and MOA 120: 2.5

Minimum Jackson College credits: 15

GENERAL EDUCATION REQUIREMENTS (21 CREDITS)

GEO 1: Write clearly, concisely and intelligibly (3 credits)

Choose one of the following:

ENG 131 Writing Experience I

ENG 132 Writing Experience II

GEO 2: Recognize the importance of equity and inclusion in a diverse society (3 credits)

Take the following:

COM 250 Intercultural Communication

GEO 3: Demonstrate computational skills and mathematical reasoning (4 credits)

Take the following:

MAT 130 Quantitative Reasoning (or higher)



**GEO 4: Demonstrate scientific reasoning
(4-8 credits)**

Choose one of the following:

BIO	132	Human Biology OR
BIO	253	Human Anatomy and Physiology I AND
BIO	254	Human Anatomy and Physiology II

DMS	206	Sonographic Instrumentation
DMS	207	Cerebrovascular Procedures
DMS	208	Advanced Imaging
DMS	209	Vascular Technology Review Capstone
DMS	265	Vascular Clinical II
DMS	266	Vascular Clinical III

**GEO 5: Understand human behavior and social systems, and the principles which govern them
(4 credits)**

Choose one of the following:

PSY	140	Introduction to Psychology
SOC	231	Principles of Sociology

GEO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

HUM	131	Cultural Connections
ENG	249	African-American Literature

**VASCULAR SONOGRAPHY RELATED
REQUIREMENTS (15 CREDITS)**

Take the following:

DMS	104	Intro to Sonographic Instrumentation
HOC	130	Introduction to Health Occupations
MOA	120	Medical Terminology
PHY	145	Introduction to Basic Physics

**VASCULAR SONOGRAPHY CORE
REQUIREMENTS (43 CREDITS)**

Take the following:

DMS	102	Vascular Anatomy, Physiology and Pathophysiology
DMS	103	Intro to Sonographic Reasoning and Research
DMS	160	Introduction to Vascular Technology and Professional Lab Practice
DMS	161	Vascular Clinical I
DMS	202	Basic Cardiovascular Principles, Hemodynamics and Doppler Waveforms
DMS	203	Venous Duplex Testing
DMS	205	Arterial Duplex and Physiological Testing