

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

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

The vascular sonographer performs carotid duplex scanning, lower and upper extremity Doppler examinations, venous duplex scans, and abdominal vascular exams, evaluates test results, monitors the 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 a hybrid 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 (competency-based) and the curriculum consists of integrated educational and clinical course work with a maximum of 1,000 supervised clinical hours with an approved clinical education affiliate. The level of mastery and performance proficiency is assessed in the final clinical semester. Learners will be eligible for early completion during the final clinical semester.

The program is designed to prepare the student for employment in vascular sonography. Vascular positions are in 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 the requirements 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:

- Applications must be received by the Allied Health Office by January 31.
- The 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: 67

Minimum cumulative GPA: 2.0

Minimum grade in all courses: 2.0

Minimum grade in BIO 132, 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)

Take the following:

ENG 131 Writing Experience I or

ENG 132 Writing Experience II

GEO 2: Recognize the importance of effective communication in a dynamic and changing society (3 credits)

Choose one of the following:

COM 231 Communication Fundamentals

COM 240 Interpersonal Communication

COM 250 Intercultural Communication

HIS 211 Minority Groups in America

HUM 131 Cultural Connections

PHL 243 Great World Religions

PLS 262 International Relations

PSY 152 Social Psychology (or SOC 152 Social Psychology)

SOC 246 Marriage & Family

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:

**If not selecting BIO 132, take both BIO 253 and BIO 254 to satisfy requirements.*

BIO 132 Human Biology

BIO 253 Human Anatomy & Physiology I AND

BIO 254 Human Anatomy & Physiology II

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

Take the following:

PSY 130 General Psychology or

SOC 231 Principles of Sociology

GEO 6: Identify artistic, linguistic, and theoretical perspectives across the human experience (3 credits)**

Choose one of the following:

ART	111	Art History: Prehistoric to 1400
ART	112	Art History: Renaissance to Present
ENG	210	Film in Literature
ENG	246	Short Story & Novel
ENG	247	Poetry & Drama
ENG	249	African-American Literature
ENG	252	Shakespeare
ENG	254	Children's Literature
ENG	255	American Literature – 19th Century
ENG	256	American Literature – 20th Century
ENG	261	Creative Writing
HUM	131	Cultural Connections
MUS	130	Music of Non-Western Cultures
MUS	131	Understanding Music
MUS	132	History of American Popular Music
PHL	231	Introduction to Philosophy
THR	116	Introduction to Theatre

VASCULAR SONOGRAPHY RELATED REQUIREMENTS (11 CREDITS)

Take the following:

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

VASCULAR SONOGRAPHY CORE REQUIREMENTS (36 CREDITS)

Take the following:

DMS	159	Vascular Anatomy, Physiology and Doppler Imaging
DMS	103	Introduction to Sonographic Reasoning and Research
DMS	160	Introduction to Vascular Technology and Professional Lab Practice
DMS	171	Vascular Ultrasound Clinical I
DMS	203	Venous Duplex Testing
DMS	205	Arterial Duplex and Physiological Testing
DMS	206	Sonographic Instrumentation
DMS	207	Cerebrovascular Procedures
DMS	208	Advanced Imaging
DMS	209	Vascular Technology Review Capstone
DMS	271	Vascular Ultrasound Clinical II
DMS	272	Vascular Ultrasound Clinical III