AHUS - ALLIED HEALTH: ULTRASOUND

AHUS 100 Introduction to Sonography. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): Admission to the sonography program.
Corequisite(s): AHUS 102, AHUS 110.
3cr. Introduces the student to the profession of diagnostic medical sonography, the role of the sonographer as part of the health care team, and the technical aspects of sonography. Emphasis on sonographic terminology, medical ethics and law, patient care, basic physical principles of ultrasound, and professional issues relating to registry, accreditation, professional organizations, and history of the profession. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 101 DMS Principles & Instruments. 3 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 100, AHUS 102, AHUS 104A, AHUS 111.
Corequisite(s): AHUS 103, AHUS 104, AHUS 110.
3cr. Provides in-depth instruction into sonographic principles and instrumentation. Topics covered include physics of a sound wave, Doppler physics, instrumentation, equipment operation, transducers, imaging artifacts, biological effects of ultrasound, and quality assurance. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 102 Abdominal Sonography. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): Admission to the sonography program.
Corequisite(s): AHUS 100, AHUS 110.
3cr. Provides students with an in-depth study of cross-sectional anatomy, gross anatomy, and physiology of the abdomen. Emphasis is on normal and abnormal sonographic patterns of the intra-abdominal organs, peritoneal spaces and retroperitoneal structures, related clinical signs and symptoms, patient history and clinical exam, and associated laboratory findings. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 103 OB/Gyn Sonography I. 3 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 100, AHUS 102.
Corequisite(s): AHUS 101, AHUS 104, AHUS 110.
3cr. Introduces students to cross-sectional anatomy of the female pelvis, normal and abnormal sonographic features of the non-gravid pelvis, as well as normal and abnormal anatomy of first trimester OB. Embryology, early fetal development, patient preparation, proper scanning techniques, patient history, physical exam, and laboratory findings are presented. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 104 Clinical Experience I. 5 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 100, AHUS 102, AHUS 104A, AHUS 111.
Corequisite(s): AHUS 101, AHUS 103, AHUS 110.
5cr. (15 other/wk) Instructs students in sonographic examinations in the clinical environment. The students are required to perform sonographic examinations on patients and to participate in scheduled clinicals under the direct supervision of the clinical instructor or credentialed Diagnostic Medical Sonographer. Students will be oriented into patient care methodologies. CPR certification is required.
Department: Health Occupations - COT

AHUS 104A Sonography Intersession I. 1 Credit
Term Typically Offered: Spring
Prerequisite(s): AHUS 100, AHUS 102, AHUS 111.
1cr. (3 other/wk) Provides students the opportunity to perform radiographic examinations on patients at the clinical sites and participate in scheduled clinical assignments under the direct supervision of the clinical instructor or credentialed sonographer. (80 total).
Department: Health Occupations - COT

AHUS 105 Clinical Experience II. 5 Credits
Term Typically Offered: Summer
Prerequisite(s): AHUS 104A. Corequisites
5cr. (15 other/wk) Instructs students in sonographic examinations in the clinical environment. The students are required to perform sonographic examinations on patients and to participate in scheduled clinicals under the direct supervision of the clinical instructor or credentialed Diagnostic Medical Sonographer. CPR certification is required.
Department: Health Occupations - COT

AHUS 106 Sectional Anatomy. 3 Credits
Term Typically Offered: Spring
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 103, AHUS 105.
Introduces students to sectional anatomy in the transverse, longitudinal, and coronal planes, with emphasis on the organs of sonographic interest within the abdomino-pelvic cavity. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 107 Ultrasound Physics. 3 Credits
Term Typically Offered: Summer
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 108.
Introduces students to the physical principles of diagnostic medical sonography. Topics include the characteristics of real-time ultrasound transducers, the ultrasound beam, and the ultrasound instrumentation. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 108 Clinical Experience III. 4 Credits
Term Typically Offered: Summer
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 107.
(12 clinical/wk) Instructs students in the hands-on scanning of patients via ultrasonography at clinical sites. Students will obtain hands-on clinical experience performing ultrasound examinations under the direct supervision of the clinical instructor or certified ultrasonographer.
Department: Health Occupations - COT

AHUS 110 Practical Aspect of Sonography. 2 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 100, AHUS 104A, AHUS 111.
Corequisite(s): AHUS 101, AHUS 103, AHUS 104.
2cr. Introduces Ultrasound scanning principles and protocols. Presents AIUM/ACR guidelines and parameters for standard care and best practices. Prepares students for success at clinical rotations by reviewing clinical expectations, standards of behavior, clinical competencies, exam logs, and proficiencies. Topics include proper use of AIDET to greet and interact with patients, patient safety, training in HIPAA compliance, OSHA compliance, and Bloodborne Pathogens training. Offered ONLY Online.
Lecture Hours 2
Department: Health Occupations - COT

AHUS 111 Sonography Scan Lab. 1 Credit
Term Typically Offered: Fall
Prerequisite(s): Admission to the sonography program.
Corequisite(s): AHUS 100, AHUS 102.
1cr. Familiarizes students with protocols and procedures for the general function of a sonography lab.
Lab Hours 2
Department: Health Occupations - COT

AHUS 112 SPI Registry Review. 1 Credit
Term Typically Offered: Summer
Prerequisite(s): AHUS 101.
Corequisite(s): AHUS 105.
1cr. Prepares students to sit for ARDMS SPI registry exam through review of sonographic principles and instrumentation materials and administration of mock registry exams. Topics include transducers, interaction of sound and media, pulsed echo instrumentation, hemodynamics, Doppler, and test taking strategies. Offered ONLY Online.
Lecture Hours 1
Department: Health Occupations - COT

AHUS 203 OB/Gyn Sonography II. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): AHUS 103.
Corequisite(s): AHUS 204A, AHUS 206, AHUS 208.
3cr. Presents normal and abnormal anatomy and sonographic features of second and third trimester pregnancies. Provides an in-depth study of normal and abnormal fetal development with emphasis on the importance of patient history, clinical findings, and laboratory findings in relation to abnormal fetal and maternal findings. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 204 Sonography Intersession II. 1 Credit
Term Typically Offered: Spring
Prerequisite(s): AHUS 204A. Corequisites
1cr. (3 other/wk) Provides students the opportunity to perform sonographic examinations on patients at the clinical sites and participate in scheduled clinical assignments under the direct supervision of the clinical instructor or credentialed sonographer. (80 total).
Department: Health Occupations - COT

AHUS 204A Clinical Experience III. 5 Credits
Term Typically Offered: Fall
Prerequisite(s): AHUS 105.
Corequisite(s): AHUS 203, AHUS 206.
5cr. (15 other/wk) Instructs students in sonographic examinations in the clinical environment. The students are required to perform sonographic examinations on patients and to participate in scheduled clinicals under the direct supervision of the clinical instructor or credentialed Diagnostic Medical Sonographer. CPR certification is required.
Department: Health Occupations - COT

AHUS 205 Clinical Experience IV. 5 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 204A. Corequisites
5cr. (15 other/wk) Instructs students in sonographic examinations in the clinical environment. The students are required to perform sonographic examinations on patients and to participate in scheduled clinicals under the direct supervision of the clinical instructor or credentialed Diagnostic Medical Sonographer. CPR certification is required.
Department: Health Occupations - COT

AHUS 206 Small Parts and Ped Sonography. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): AHUS 102, AHUS 103, AHUS 105.
Corequisite(s): AHUS 203, AHUS 204A. Presents normal and abnormal sonographic features of the neck, breast, prostate, scrotum, and superficial structures.
3cr. Introduces students to imaging of the neonatal brain, infant spine and hips, and pediatric abdomen and pelvis. Related cross-sectional anatomy, and the relationship of sonographic findings to patient history, physical examination and laboratory findings will be explored. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 207 Vascular Sonography. 3 Credits
Term Typically Offered: Spring
Prerequisite(s): AHUS 101, AHUS 206.
Corequisite(s): AHUS 205.
3cr. Provides an introduction to vascular anatomy, cross-sectional anatomy, physiology, pathophysiology, vascular physics and instrumentation, hemodynamics and pathological wave patterns. Topics include Doppler scanning and all aspects of non-invasive physiologic vascular testing. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 208 Abdomen Registry Review. 1 Credit
Term Typically Offered: Fall
Prerequisite(s): AHUS 102.
Corequisite(s): AHUS 204A. Prepares students for ARDMS Abdomen Registry exam and/or ARRT Sonography Registry exam through review of abdominal anatomy, pathology, pathophysiology, associated lab finding, normal and abnormal sonographic appearance, and the administration of mock registry exams.
1cr. Test taking strategies will be explored. Offered ONLY Online.
Lecture Hours 1
Department: Health Occupations - COT

AHUS 210 OB/Gyn Registry Review. 1 Credit
Term Typically Offered: Spring
Prerequisite(s): AHUS 103, AHUS 203.
Corequisite(s): AHUS 205.
1cr. Prepares students for ARDMS OB/Gyn Registry exam and/or ARRT Sonography Registry exam through review of female pelvic, 1st trimester, 2nd trimester and 3rd trimester OB anatomy, pathology, pathophysiology, associated lab finding, normal and abnormal sonographic appearance, and the administration of mock registry exams. Other topics covered will include resume writing, interview tips, job search strategies, and test taking strategies. Offered ONLY Online.
Lecture Hours 1
Department: Health Occupations - COT