AHUS - ALLIED HEALTH: ULTRASOUND

AHUS 100 Introduction to Ultrasound. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 101, AHUS 102, AHUS 104.
Introduces the student to the profession of sonography and the role of the
sonographer. Emphasis on medical terminology, ethical/legal aspects, written and
verbal communication, 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 Ultrasound Instrumentation. 3 Credits
Term Typically Offered: Fall
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 100, AHUS 102, AHUS 104.
Introduces students to ultrasound equipment operation. Topics include ultrasound
wave generation and propagation, transducers, pulse echo instruments, pulse echo
imaging, image storage and display, Doppler, artifacts, quality assurance, bioeffects,
and safety. 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 Ultrasound Technology program.
Corequisite(s): AHUS 100, AHUS 101, AHUS 104.
Introduces students to an in-depth study of anatomy, physiology, and spatial
relationships of the abdomen, retroperitoneal cavity, and superficial structures.
Emphasis will be placed on related clinical signs and symptoms, and normal and
abnormal sonographic patterns. Harmonic imaging and two-dimensional Doppler
color imaging will be used to evaluate the sonographic appearance of abdominal
organs such as the liver, gallbladder, biliary tree, spleen, pancreas, great vessels,
kidneys, and urinary tract. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 103 OB and GN Sonography. 3 Credits
Term Typically Offered: Spring
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 105, AHUS 106.
Introduces students to OB/GYN sonography and the female reproductive and
urogenital systems as they pertain to performing ultrasound examinations of that
area. Normal and abnormal anatomy and physiology, instrumentation set-up, patient
preparation, proper scanning technique, and normal and abnormal findings are
presented. Offered ONLY Online.
Lecture Hours 3
Department: Health Occupations - COT

AHUS 104 Clinical Experience I. 4 Credits
Term Typically Offered: Fall
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 100, AHUS 101, AHUS 102.
(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 105 Clinical Experience II. 4 Credits
Term Typically Offered: Spring
Prerequisite(s): Admission to the Ultrasound Technology program.
Corequisite(s): AHUS 103, AHUS 106.
(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 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