SONOGRAPHY

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SON 1000C. INTRODUCTION TO MEDICAL SONOGRAPHY

INTRODUCTION TO MEDICAL SONOGRAPHY

Prerequisite: Acceptance into A.S. Diagnostic Medical Sonography Program. An introduction to the profession of sonography and the role of the sonographer. Emphasis on basic ultrasound procedures, medical terminology, ethical/aspect, musculoskeletal disorders, professional issues relating to registry, accreditation, professional organizations, and history of the profession. This course has a hands-on lab. (Special Fee: $8.00).

SON 1001C. ABDOMINAL SONOGRAPHY I

ABDOMINAL SONOGRAPHY I

Prerequisite: SON 1000C and RTE 2762 (IF RTE 2762 is used as a prerequisite then a minimum grade of C is required) Prerequisite or Corequisite: RTE 2762 and SON 1804C This course is an in-depth study in the sonographic imaging of the abdominal viscera and the pathological processes that affect this area of the body. This course also includes sonographic terminology and correlation of the ultrasound findings with clinical laboratory test. This course includes a hands-on lab with activities designed to ensure competence in the basic use of computers and to enhance scanning skills. (Special Fee: $2.00).

SON 1002C. METHODS OF PATIENT CARE

METHODS OF PATIENT CARE

Prerequisite: Acceptance to Sonography A.S. Degree Program Content is designed to provide the basic concepts of patient care including consideration for physical, and psychological, legal, and ethical needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions. Basic concepts of pharmacology/drug administration and theory and practice of venipuncture techniques are presented. Introduces basic theories, skills, and techniques of quality patient care. Includes communication, assessment skills, aseptic technique, drug administration, emergency situations, and AIDS education. Presents theoretical and practical knowledge to make sound clinical judgments and carry out patient care activities. A minimum grade of C is required to pass this course. (Special Fee $13.00).

SON 1003L. SONOGRAPHY PRACTICE LAB

SONOGRAPHY PRACTICE LAB

Prerequisite or Corequisite: SON 1000C. This course is designed to provide extended hands-on lab opportunities to further enhance basic skills prior to starting the clinical rotation. Multiple credit course. May be repeated for credit for a maximum of four credits, but grade forgiveness cannot be applied. (Special Fee: $8.00).

SON 1112C. ABDOMINAL SONOGRAPHY II

ABDOMINAL SONOGRAPHY II

Prerequisites: RTE 2762, SON 1001C, and SON 1804L Corequisites: SON 1614 and SON 1814L. This course is a continuation of Abdominal Sonography I. It is an in-depth study in the sonographic imaging of the abdominal viscera and the pathological processes that affect this area of the body. The course also includes correlation of the ultrasound findings with clinical laboratory tests and a hands-on lab. (Special Fee: $3.00).

SON 1114. SONOGRAPHICS PHYSICS I

SONOGRAPHICS PHYSICS I

Prerequisites: SON 1001C. Corequisites: SON 1112C, SON 1814L. A study of the properties of diagnostic ultrasound and the effective utilization of them to produce quality scans. This course covers propagation of sound through a medium, transducer construction, different types of scan heads, and the different display modes.

SON 1804L. CLINICAL SONOGRAPHY I

CLINICAL SONOGRAPHY I

Prerequisites: SON 1000C and RTE 2762 Corequisites: RTE 2762 and SON 1001C Supervised clinical experience and competency evaluation of professional interaction and performance of routine sonographic procedures with emphasis on patient care, ultrasound computer equipment orientation, cross-sectional imaging planes, and performance of quality exams. This course includes learning activity designed to ensure competence in the basic use of computers. (Special Fee: $3.00).

SON 1814L. CLINICAL SONOGRAPHY II

CLINICAL SONOGRAPHY II

Prerequisites: SON 1804L Corequisites: SON 1112C and SON 1614 A continuation of supervised clinical experience and competency evaluation of performance of routine sonographic procedures, usage of computerized ultrasound equipment and professional interaction. Emphasis is placed on critical thinking skills as related to exam performance and patient care in the clinical setting.

SON 2061. SEMINAR IN SONOGRAPHY

SEMINAR IN SONOGRAPHY

Prerequisites: SON 2122. Corequisite: SON 2880. This course is a comprehensive review of all aspects of the Sonography curriculum to prepare the students for the Board Exams. Also included in the preparation of employment resumes.

SON 2121. OB/GYN SONOGRAPHY I

OB/GYN SONOGRAPHY I

Prerequisites: SON 1112C. Corequisites: SON 2150, SON 2618, SON 2824L. This course includes an in-depth study of the female pelvis with emphasis on the sonographic appearance of its structures and the numerous pathological processes that may affect it. The course will continue with early pregnancy and its complications.

SON 2122. OB/GYN SONOGRAPHY II

OB/GYN SONOGRAPHY II

Prerequisites: SON 2121 Corequisites: SON 2619 and SON 2834L This course is a continuation of SON 2121 which includes the sonographic evaluation of pregnancy and related complications. Emphasis is placed on the detection of fetal anomalies, pathology, and the scan planes necessary for appropriate imaging.

SON 2150. NEUROSONOLOGY AND SUPERFICIAL STRUCTURES

NEUROSONOLOGY AND SUPERFICIAL STRUCTURES

Prerequisites: SON 1112C. Corequisites: SON 2121, SON 2618 and SON 2824L. This course is a study of the sonographic imaging of the premature infant brain and the pathological processes that affect it. Also included are the sonographic evaluations of the prostate, scrotum, thyroid gland, and breast.

SON 2618. SONOGRAPHICS PHYSICS II

SONOGRAPHICS PHYSICS II

Prerequisites: SON 1614. Corequisites: SON 2121, SON 2150 and SON 2824L. This course is a continuation in the study of the properties of diagnostic ultrasound and their role in the production of quality ultrasound images of patients’ internal organs. Also covers hemodynamics, the basic mathematical principals and instrumentation of Doppler/color flow imaging, and components of the ultrasound system.

SON 2619. SONOGRAPHICS PHYSICS III

SONOGRAPHICS PHYSICS III

Prerequisite: SON 2618 Corequisites: SON 2122 and SON 2834L This course is a continuation in the study of the properties of diagnostic ultrasound and their role in the production of quality images, which includes resolution and attenuation artifacts, routine maintenance of the ultrasound equipment, and the biologic effects of ultrasound on body tissues. Also included is a review for the Acoustical Physics and Instrumentation Registry Exam.
be introduced to patient care issues specific to vascular sonography. Students will apply vascular disease. The course is designed to introduce the students to depth exploration of the type of exams performed for the diagnosis of vascular disease. Minimum grade of C required if used to satisfy Radiologic & Imaging Sciences B.S. degree requirement. SON 3806L. VASCULAR SONOGRAPHY

INTRODUCTION TO VASCULAR SONOGRAPHY Prerequisite: Admission into the BS in Radiologic & Imaging Sciences Program Vascular Ultrasound Concentration or ATC in Vascular Sonography. This course will present an introduction to vascular sonography. It will provide an in-depth exploration of the cerebrovascular and peripheral venous vascular sonography. It will explore pathophysiology, integration of data, report generation, and vascular sonography’s role in the treatment of vascular disease. Minimum grade of C required if used to satisfy Radiologic & Imaging Science B.S. degree requirement.

SON 3172C. INTRODUCTION TO VASCULAR SONOGRAPHY

VASCULAR SONOGRAPHY II Prerequisite: Minimum grade of C in SON 3172C Introduction to Vascular Sonography Corequisite: SON 3806L This course will provide in-depth exploration of the cerebrovascular and peripheral venous vascular sonography. It will explore pathophysiology, integration of data, report generation, and vascular sonography’s role in the treatment of vascular disease. Minimum grade of C required if used to satisfy Radiologic & Imaging Sciences B.S. degree requirement.

SON 3806L. VASCULAR SONOGRAPHY

VASCULAR SONOGRAPHY PRACTICUM I Prerequisite: Minimum grade of C in SON 3172C Introduction to Vascular Sonography. This course will provide an introduction to vascular sonographic techniques in the clinical setting including observation, pre- and post-procedural activities, and supervised performance of basic vascular sonographic examination. Minimum grade of C required if used to satisfy Radiologic & Imaging Science B.S. degree requirement. Contact hours 16 hours per week; 240 hours clinical practice per semester.

SON 4174. VASCULAR SONOGRAPHY III.

VASCULAR SONOGRAPHY PRACTICUM II Prerequisite: Minimum grade of C in SON 3173 and SON 3806L. Corequisite: SON 4816L. This course will provide in-depth exploration of peripheral arterial and visceral vascular Sonography. It will explore pathophysiology, integration of data, report generation, and vascular sonographer’s role in the treatment of vascular disease. Minimum grade of C required if used to satisfy Radiologic & Imaging Sciences B.S. degree requirement.

SON 4816L. VASCULAR SONOGRAPHY

VASCULAR SONOGRAPHY PRACTICUM II Prerequisite: Minimum grade of C in SON 3173 and SON 3806L. Corequisite: SON 4814L. This course will provide continued exposure to the vascular sonographic techniques in the clinical setting including observation, pre- and post-procedural activities, and supervised performance of basic vascular sonographic examination. Minimum grade of C required if used to satisfy Radiologic & Imaging Science B.S. degree requirement. Contact hours 16 hours per week; 240 hours clinical practice per semester.

SON 4174. VASCULAR SONOGRAPHY III.

VASCULAR SONOGRAPHY PRACTICUM II Prerequisite: Minimum grade of C in SON 3173 and SON 3806L. Corequisite: SON 4816L. This course will provide in-depth exploration of peripheral arterial and visceral vascular Sonography. It will explore pathophysiology, integration of data, report generation, and vascular sonographer’s role in the treatment of vascular disease. Minimum grade of C required if used to satisfy Radiologic & Imaging Sciences B.S. degree requirement.

SON 4816L. VASCULAR SONOGRAPHY

VASCULAR SONOGRAPHY PRACTICUM II Prerequisite: Minimum grade of C in SON 3173 and SON 3806L. Corequisite: SON 4814L. This course will provide continued exposure to the vascular sonographic techniques in the clinical setting including observation, pre- and post-procedural activities, and supervised performance of basic vascular sonographic examination. Minimum grade of C required if used to satisfy Radiologic & Imaging Science B.S. degree requirement. Contact hours 16 hours per week; 240 hours clinical practice per semester.