
Associate of Applied Science in Diagnostic Medical Sonography

PROGRAM GOALS:

The goal of the Diagnostic Medical Sonography program (General Concentration) is the thorough preparation of the student, through quality didactic, laboratory, and clinical instruction, in the theoretical knowledge, tasks, and responsibilities required of an entry-level general sonographer.

PROGRAM PHILOSOPHY:

The Diagnostic Medical Sonography program of Southwest University at El Paso is committed to excellence in education demonstrated by providing a comprehensive entry-level education program to students through quality didactic and clinical instruction. The program supports the vision, values, and mission of Southwest University at El Paso by striving to be the premier Diagnostic Medical Sonography training program in our community. In combination, the seven program components ensure the adequacy of a well-rounded program through classes in didactic theory, application and practice of skill sets in the laboratory environment, and integration of didactic theory and acquisition of performance objectives in the clinical setting.

PROGRAM OBJECTIVES:

Upon completion of this program, the student will be able to:

1. Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results.
2. Perform appropriate ultrasound scanning procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician.
3. Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician.
4. Exercise discretion and judgment in the performance of sonographic and/or other non-invasive diagnostic services.
5. Provide appropriate and compassionate patient care for patients undergoing ultrasound examination.
6. Demonstrate appropriate communication skills with patients and colleagues.
7. Act in a professional and ethical manner.
8. Provide patient education related to medical ultrasound and/or other non-invasive diagnostic ultrasound techniques, and promote principles of good health.

OCCUPATIONAL OBJECTIVES:

The successful graduate of the Diagnostic Medical Sonography at Southwest University at El Paso will have the knowledge and skills to obtain entry-level employment as a Diagnostic Medical Sonographer in:

- A Hospital or Medical Center
- A Medical Clinic
- A Radiology Imaging Center
- A Physician's Office
- Mobile Ultrasound Service
- Free Lance Sonographer
- Traveling Sonographer
- Commercial Ultrasound: Applications Specialist and Sales
- Research Sonography

Admissions requirements:

- All potential students must receive a school catalog prior to signing an enrollment agreement
- Student must attend entrance orientation
- A high school diploma or its equivalency is required for admission into the program
- Prospective students must complete a successful interview with an intake (admissions) counselor
- Prospective students must submit an AAS DMS Admissions Application
- Applicants must be at least 17 years of age (applicants under the age of 18 require written permission from a parent or legal guardian in order to enroll.)
- Applicants must take and pass an institutional HESI entrance exam with a minimum of 70%. Non-Refundable exam fee is \$45.00 dls
- Applicants must be a graduate of Southwest University AAS Allied Health Program. (Tuition and Program length for these programs are in addition to the cost for this program; please refer to the institutional catalog for program specific tuition costs).

General Criteria: Applicants for specialized admissions must satisfy minimum criteria in order to be eligible for consideration for ranking. The following is required for all students wishing to enroll the program:

- Must be a graduate of an SU AAS Allied Health Program or a SU BS program
- Must have earned a minimum SU cumulative GPA of 3.5, an attendance rate of 90% and no write ups are required.
- The following is required for all outside students wishing to enroll the program: Baccalaureate in Science and Minimum cumulative GPA of 3.0 (Transcript is required for academic review)

Students must complete admissions requirements prior to enrollment in specialized courses. There is a scheduled ranking date for this program. It is ultimately the student's responsibility to submit all required documentation to allow for normal processing.

Total Lab Hours:	310 Hrs
Total Externship Hours:	825 Hrs
Total Lecture Hours:	920 Hrs
Total Program Hours:	2055 Hrs
Total Length of Time:	104 Wks
Total Credit Hours:	134.5 Credits

Definition of Academic Year: An academic year will consist of 30 instruction weeks and 36 quarter credit hours.

Full Time Status: Student's enrollment status will be considered full time if the student is enrolled in at least 7.5 credit hours in a six week period.

Program Delivery: Blended (*Residential and Online, please see marked classes*) The program content is offered through lecture, laboratory, and externship experience. (certain lecture and/or laboratory courses may be delivered online, those courses are identified as blended, below)

AAIP 101 ADVANCED ANATOMY FOR IMAGING PROFESSIONALS

This course is designed to establish a knowledge base in the systems of the human body. The course content describes and discusses in specific detail the various functions of biological systems within the human body. The course introduces concepts relating to tissue, cells and organ systems. Anatomy is heavily emphasized, and individual class sessions often concentrate on specific parts of the body. Beginning human physiology covers the mechanisms sustaining human life and addresses each system's specific function, health issues, pathologies, diagnostics and disease prevention.

Clock hours of lab: 20

Clock hours of classroom lecture: 40

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 60

Tuition: \$1,575.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	4.0
Lab	1.0
Ext	0.0

TOTAL = 5.0 Qtr Hr

ALG 110 ALGEBRA I

This course is designed to provide understanding of basic properties of real numbers and to use algebraic models to solve verbal problems with linear and quadratic equation, complex numbers, factoring and graphs. Emphasis is placed on manipulation of algebraic equations, problem solving and their correlation to general arithmetic.

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

AIP 101 ANATOMY FOR IMAGING PROFESSIONALS I

This course provides systemic and functional review of human gross anatomy and sectional anatomy in order for students to obtain the knowledge required in the diagnostic ultrasound medical field. Students will learn the physiology of different (organ) systems. The course will cover the following subject areas: Integumentary, Endocrine, Musculoskeletal and Nervous System.

Clock hours of lab: 10

Clock hours of classroom lecture: 20

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0
Lab	0.5
Ext	0.0

TOTAL = 2.5 Qtr Hr

AIP 102 ANATOMY FOR IMAGING PROFESSIONALS II

This course provides a systemic and functional review of human gross anatomy and sectional anatomy in order for students to expand the knowledge acquired in the Anatomy for Imaging Professionals I course. Students will learn the major gross— anatomical and systematic anatomy structures and physiology functions / interactions of the different (organ) systems. The course will also introduce students to basic diagnostic images of gross-anatomical and sectional anatomy structures, as well as basic physiology. This course will primarily focus on the sectional anatomy as it pertains to the Cardiovascular, Lymphatic, Respiratory, Digestive Reproductive and Urinary Systems.

Clock hours of lab: 10

Clock hours of classroom lecture: 20

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: AIP 101

Total Clock Hours: 30

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0
Lab	0.5
Ext	0.0

TOTAL = 2.5 Qtr Hr

BC 110 BUSINESS COMMUNICATION

This course examines basic interpersonal communication processes with practical applications for the business environment. Issues regarding cross- cultural communications and ethical considerations in business communication are discussed. The course will emphasize planning, organizing and delivering oral presentations in business settings.

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
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Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

BIO 101 BIOLOGY I

This course is designed to provide the students with the foundation and knowledge of biology in brief investigations of all major facets of living organisms including cell structure and function, major kingdoms of organisms, selected topics in human anatomy, physiology, genetics, reproduction, evolution, and biochemistry. In addition, ecological principles and conservation will be stressed throughout the course.

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

BIO 102 BIOLOGY II

This course is a detailed study of body structure and function utilizing principles of chemistry, biochemistry as well as anatomy and physiology. It includes the following topics: cardiovascular system, lymphatic system, nonspecific defense and immunity, respiratory system, digestive system, urinary system, fluid/electrolyte and acid/base balance, and reproductive system

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: BIO 101

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

BIO 103D MICROORGANISMS AND DISEASE

Microorganisms & Disease covers principles of microbiology and the impact these organisms have on humans and on the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. The course will additionally cover the proper application of the skills needed for microscopy,

aseptic technique, staining, culture methods, and identification of microorganisms.

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: BIO 102

Total Clock Hours: 30

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

CL 100 INTRODUCTION TO CLINICAL PROCEDURES

The student will learn intermediate and advanced procedures for infection control, how to prepare, examine, and treat areas, take patient history and measurements, prepare and administer medications.

Clock hours of lab: 20

Clock hours of classroom lecture: 10

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Tuition: \$630.00

Laboratory Fee: Please see page 24

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	1.0
Lab	2.0
Ext	0.0

TOTAL = 2.0 Qtr Hrs

DMS 201 INTRODUCTION TO ULTRASOUND IMAGING

This course is an introduction to the nature of ultrasound and to the fundamental role and duties of the sonographer. Emphasis is placed on the origins and evolution of diagnostic medical sonography, development of the sonographer, the student sonographer, safety issues in sonography, basic medical techniques and patient care, communication skills, clinical assessments, medical and legal aspects in sonography, medical ethics and professionalism, employment opportunities for sonographers.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 202 INTERMEDIATE ULTRASOUND IMAGING

This course is an introduction to the nature of ultrasound and to the fundamental role and duties of the sonographer. This course will emphasize the structure and function of: body planes and directions, and basic anatomy and physiology of body systems (with special emphasis on the liver), biliary tree, pancreas, renal, thyroid, parathyroid, male and female reproductive systems, and the cardiovascular system.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 201

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 210 ABDOMINAL AND SMALL PARTS ULTRASOUND IMAGING

This course provides interpretation of normal anatomy, sonographic and gross anatomy demonstrating scanning techniques and identifying normal sonographic protocols for abdomen and small parts. Interpretation of abnormal anatomy, identification and interpretation of pathological conditions affecting the abdominal organs and small parts and the role of differential diagnoses in ultrasound examinations.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 201

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 212 ABDOMINAL ULTRASOUND IMAGING

This course is designed to provide an interpretation of abnormal anatomy, identification and interpretation of pathological conditions affecting the abdominal organs. It includes the role of differential diagnoses in ultrasound examinations.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 210

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 214 SMALL PART ULTRASOUND IMAGING

This course is designed to provide an interpretation of abnormal anatomy, identification and interpretation of pathological conditions affecting the abdominal organs. It includes role of differential diagnoses in ultrasound examinations.

Clock hours of lab: 30

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 210

Total Clock Hours: 60

Tuition: \$1418.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	1.5
Ext	0.0

TOTAL = 4.5 Qtr Hr

DMS 220 OBSTETRICS AND GYNECOLOGY ULTRASOUND IMAGING I

This course will introduce the protocols, policies, and fundamentals involved with obstetrics and gynecology ultrasound studies. The course will introduce the skills needed to perform studies by recognizing and identifying fetal structures and the female reproductive anatomy, along with obstetrics and gynecology transducer recognition.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 210

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 222 OBSTETRICS AND GYNECOLOGY ULTRASOUND IMAGING II

This course is designed to provide the interpretation of normal anatomy, sonographic and gross anatomy demonstrating scanning techniques and identifying normal sonographic protocols for gynecologic and obstetric ultrasound examinations.

Clock hours of lab: 30

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 220

Total Clock Hours: 60

Tuition: \$1418.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	1.5
Ext	0.0

TOTAL = 4.5 Qtr Hr

DMS 224 EXAM REVIEW PREPARTION I

This course provides a comprehensive review for abdominal specialty examination that includes interpretation of normal anatomy, sonographic and gross anatomy rehearsing scanning techniques oriented to identify normal anatomy with sonographic protocols for abdomen and small parts. Competency in the interpretation of abnormal anatomy and identification of pathological conditions affecting the abdominal organs and the role of differential diagnoses with ultrasound examinations.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 220

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 230 INTRODUCTION TO VASCULAR ULTRASOUND IMAGING

The course is a detailed introduction to the basics of Vascular Ultrasound Imaging. The course will also include the policies and protocols involved with vascular scanning, and an overview of vascular instrumentation.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 220

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 234 EXAM REVIEW PREPARATION II

This course provides a comprehensive review for abdominal specialty examination that includes interpretation of normal anatomy, sonographic and gross anatomy rehearsing scanning techniques oriented to identify normal anatomy with sonographic protocols for abdomen and small parts. Competency in the interpretation of abnormal anatomy and

identification of pathological conditions affecting the abdominal organs and the role of differential diagnoses with ultrasound examinations.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 224

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	

TOTAL = 5.5 Qtr Hr

DMS 240 PHYSICAL PRINCIPLES AND INSTRUMENTATION OF ULTRASOUND IMAGING

The course will correlate the principles and concepts obtained in general physics and apply them to ultrasound fundamentals. The course will be an introduction to basic acoustic physical principles and the manner in which ultrasound waves react in human tissue.

Clock hours of lab: 10

Clock hours of classroom lecture: 50

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 230

Total Clock Hours: 60

Tuition: \$1733.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	5.0
Lab	0.5
Ext	0.0

TOTAL = 5.5 Qtr Hr

DMS 242 PHYSICAL PRINCIPLES AND INSTRUMENTATION

This course will be an introduction to various types of instrumentation, equipment design and applications. The student will understand and demonstrate the mechanics of ultrasound image production and display, various transducer designs and construction, quality assurance, bio effects and safety, imaging artifacts and Doppler flow analysis.

Clock hours of lab: 30

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 240

Total Clock Hours: 60

Tuition: \$1418.00

Length of time (2 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	1.5
Ext	0.0

TOTAL = 4.5 Qtr Hr

DMS 248 ULTRASOUND REGISTRY REVIEW

This course is designed to assist the student in taking the Sonography Principles and Instrumentation and Ultrasound Specialty Exam. The course will be utilized as a preparation and review for both exams.

Clock hours of lab: 10

Clock hours of classroom lecture: 20

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 240

Total Clock Hours: 30

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0
Lab	0.5
Ext	0.0

TOTAL = 2.5 Qtr Hr

DMS 250 CLINICAL PRACTICUM I

The student will be assigned, and directly supervised in a diagnostic medical ultrasound imaging facility such as a hospital, clinic, or radiology imaging center. The student will be introduced to the clinical setting and departmental organization. Under direct supervision by a clinical preceptor (supervising sonographer or physician), and the school's Clinical Externship Coordinator, the student will begin to acquire the hands-on skills necessary for the sonographer in a clinical site. This is accomplished through observation and participation in clinical case studies of patients undergoing ultrasound examinations

Clock hours of lab: 0

Clock hours of classroom lecture: 0

Clock hours of Externship: 225

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: Successful completion of all DMS didactic core classes.

Total Clock Hours: 225

Tuition: \$2363.00

Length of time (8 hrs per day, 5 days per wk): 6 wks

Lecture	0.0
Lab	0.0
Ext	7.5

TOTAL = 7.5 Qtr Hr

DMS 260 CLINICAL PRACTICUM II

This course is designed as a more advanced continuation of Clinical Practicum I. The student will continue to perfect his or her skills in the clinical environment and learn more advanced imaging techniques required of the entry-level sonographer. The student will gain more experience in performing ultrasound studies of the patient undergoing abdominal, small parts, gynecologic, obstetric, or vascular ultrasound examinations. The student will be assigned, and directly supervised in a diagnostic medical ultrasound imaging facility such as a hospital, clinic, or radiology imaging center. The student will be introduced to the clinical setting and departmental

organization. Under direct supervision by a clinical preceptor (supervising sonographer or physician), and the school's Clinical Externship Coordinator, the student will begin to acquire the hands-on skills necessary for the sonographer in a clinical site. This is accomplished through observation and participation in clinical case studies of patients undergoing ultrasound examinations.

Clock hours of lab: 0

Clock hours of classroom lecture: 0

Clock hours of Externship: 225

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 250

Total Clock Hours: 225

Tuition: \$2363.00

Length of time (8 hrs per day, 5 days per wk): 6 wks

Lecture	0
Lab	0
Ext	7.5

TOTAL = 7.5 Qtr Hr

DMS 270 CLINICAL PRACTICUM III

This course is designed as a more advanced continuation of Clinical Practicum II. The student will continue to perfect his or her skills in the clinical environment and learn more advanced imaging techniques required of the entry-level sonographer. The student will gain more experience in performing ultrasound studies of the patient undergoing abdominal, small parts, gynecologic, obstetric, or vascular ultrasound examinations. The student will be assigned, and directly supervised in a diagnostic medical ultrasound imaging facility such as a hospital, clinic, or radiology imaging center. The student will be introduced to the clinical setting and departmental organization. Under direct supervision by a clinical preceptor (supervising sonographer or physician), and the school's Clinical Externship Coordinator, the student will begin to acquire the hands-on skills necessary for the sonographer in a clinical site. This is accomplished through observation and participation in clinical case studies of patients undergoing ultrasound examinations.

Clock hours of lab: 0

Clock hours of classroom lecture: 0

Clock hours of Externship: 225

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 260

Total Clock Hours: 225

Tuition: \$2363.00

Length of time (8 hrs per day, 5 days per wk): 6 wks

Lecture	0.0
Lab	0.0
Ext	7.5

TOTAL = 7.5 Qtr Hr

DMS 280 CLINICAL PRACTICUM IV

This course is designed as a more advanced continuation of Clinical Practicum III. The student will continue to perfect his or her skills in the clinical environment and learn more advanced imaging techniques required of the entry-level sonographer. The student will gain more experience in performing ultrasound studies of the patient undergoing abdominal, small parts, gynecologic, obstetric, or vascular ultrasound examinations. The student will be assigned, and directly supervised in a diagnostic medical ultrasound imaging facility such as a hospital, clinic, or radiology imaging center. The student will be introduced to the clinical setting and departmental organization. Under direct supervision by a clinical preceptor (supervising sonographer or physician), and the school's Clinical Externship Coordinator, the student will begin to acquire the hands-on skills necessary for the sonographer in a clinical site. This is accomplished through observation and participation in clinical case studies of patients undergoing ultrasound examinations.

Clock hours of lab: 0

Clock hours of classroom lecture: 0

Clock hours of Externship: 150

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: DMS 270

Total Clock Hours: 150

Tuition: \$1575.00

Length of time (8 hrs per day, 5 days per wk): 6 wks

Lecture	0.0
Lab	0.0
Ext	5.0

TOTAL = 5.0 Qtr Hr

ENG 110 ENGLISH I

This course includes introduction to literary analysis, investigation/review of topic-selection processes, development of possible thesis statements, outlining as it relates to support for a selected thesis statement, overall study of the research process, practice and emphasis on critical thinking skills in literary analysis, and experience in writing literary research papers using available resources.

Clock hours of lab: 0

Clock hours of classroom lecture: 30

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$945.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	3.0
Lab	0.0
Ext	0.0

TOTAL = 3.0 Qtr Hr

ME 101 MEDICAL LAW AND ETHICS

The student will learn the application of legal principles, policies, regulations and standards for the control and use of information as it applies to various areas of employment. Students will learn the proper release of information, ethical codes, confidentiality, humanistic healthcare, legal terminology, legal judgments, documents, and litigation terms. In class, students will apply this knowledge through discussion of ethical dilemmas, conferencing, and analysis of legal situations.

Clock hours of classroom lecture: 20

Clock hours of lab: 10

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0
Lab	0.5
Ext	0.0

TOTAL = 2.5 Qtr Hr

MT 101 MEDICAL TERMINOLOGY I

This course provides basic medical terminology information including Greek and Latin derivations, prefixes, suffixes, root words, and combining forms. This course provides practice in building and defining medical terms, and emphasizes correct spelling and pronunciation of medical words.

Clock hours of lab: 15

Clock hours of classroom lecture: 15

Clock hours of individual and small group tutoring: provided to student on an as-needed basis

Pre-Requisite: N/A

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$630.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	1.5
Lab	0.5
Ext	0.0

TOTAL = 2.0 Qtr Hr

MT 102 MEDICAL TERMINOLOGY II

This course is a continuation of MT 101 and provides in-depth medical terminology information including Greek and Latin derivations, prefixes, suffixes, root words, and combining forms. It provides practice in building and defining medical terms, and emphasizes correct spelling and pronunciation of medical words. Interpreting terminology related to body structure, disease, diagnosis, and treatment is emphasized along with medical abbreviations.

Clock hours of lab: 15

Clock hours of classroom lecture: 15

*Clock hours of individual and small group tutoring:
provided to student on an as-needed basis*

Pre-Requisite: Medical Terminology I

Total Clock Hours: 30

Tuition: \$630.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	1.5	
Lab	0.5	
Ext	0.0	

TOTAL = 2.0 Qtr Hr

PHY 110 BASIC FUNDAMENTALS OF PHYSICS

This course is a study of basic physics concepts. The course will introduce the concepts behind the laws and principles of physics, utilizing environmental factors such as physical matter and temperature. The properties and principles of sound waves and EM waves will be explained in great detail for further radiological functions.

Clock hours of lab: 10

Clock hours of classroom lecture: 20

*Clock hours of individual and small group tutoring:
provided to student on an as-needed basis*

Pre-Requisite: ALG 110

Total Clock Hours: 30

Method of Delivery: Blended

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0	
Lab	0.5	Ext
	0.0	

TOTAL = 2.5 Qtr Hrs

PS 101 PSYCHOLOGY OF SUCCESS

This course provides skills and strategies for creating a pattern of success. Developed to enhance a students' ability to identify career options bases on self-knowledge and self-esteem, this course provides a framework for focusing on employment and identifying a career path for lifelong success.

Clock hours of lab: 10

Clock hours of classroom lecture: 20

*Clock hours of individual and small group tutoring:
provided to student on an as-needed basis*

Pre-Requisite: N/A

Total Clock Hours: 30

Tuition: \$788.00

Length of time (1 hrs per day, 5 days per wk): 6 wks

Lecture	2.0	
Lab	0.5	
Ext	0.0	

TOTAL = 2.5 Qtr Hrs