BACHELOR OF SCIENCE IN DIAGNOSTIC MEDICAL SONOGRAPHY COURSES				
GENERAL EDUCATION COURSEWORK				
Algebra I	ALG101	This course introduces the student to the basic rudiments of algebraic theory including the following: linear algebra, associative algebra, logarithmic scale, scientific notation, solving for x. Practice exercises are provided throughout the course.		
Algebra II	ALG301	This course is a continuation of Algebra 101. It explores polynomials, radicals and quadratic equations.		
Anatomy and Physiology I	AP101	In this course, students will learn the chemical basis of life, cellular metabolism, and the different types of tissues that comprise the human body. The structure and function of the integumentary, skeletal, and muscular systems of the human body will be taught.		
Anatomy and Physiology II	AP102	In this course, students will learn the structure and function of the nervous, endocrine, blood, cardiovascular, Immune and lymphatic systems of the human body. Electrical and chemical reactions, transport of substances, and defense mechanisms of the human body will be studied.		
Anatomy and Physiology III	AP103	In this course, students will learn the structure and function of the digestive, respiratory, urinary, and reproductive systems of the human body. Nutrition and metabolism, water, electrolyte, and acid base balance will be discussed. Pregnancy, growth, and development will be studied. Students will also be introduced to the study of genetics and genomics.		
Art History	ART301	This course is designed to give students an appreciation of the human form in art. Art and the human form have long been studied by early physicians and artists, which leads to a greater understanding of the human body. We will start in the Renaissance period with Leonard Di Vinci and move through the ages until we reach the millennium and the digital age. We will discuss the social and political environments unique to each time period and their effect on the artist.		
Ethics and Leadership	ETH301	This course will introduce professionalism, ethics and leadership. Students will explore the ethical responsibilities of leadership, moral choice and its impact on organizations.		
Introduction to Biology	BIO301	This course introduces the student to biology. Organisms are studied from their behavioral, ecological, hereditary and evolutionary perspectives. Topics include: cellular life and reproduction, genetics, biological diversity, animal and plant form and function, and ecology. Students explore the relevance of biology to contemporary issues in human society.		
Introduction to General Physics	PHY301	In this course, students will discuss the concepts of physics. Emphasis will be placed on measurements and standards in length, mass, and time. Physics of motion in both one and two dimensions will be covered. The laws of motion, energy, momentum and collisions are explained. We will cover states of matter and		

		thermodynamics, and will study waves considering
Introduction to Psychology	PSY301	sound, reflection and refraction of light. This is a general overview course focusing on the scientific study of both the behavioral and mental processes of human beings. More specifically, we will be covering the history of psychology and scientific thought, the biological basis of behavior, research methodology and statistics, sensation and perception, states of consciousness, memory, language, intelligence, developmental psychology, personality, learning patterns, biological and developmental processes, motivation and emotion, stress, psychopathology, and social behaviors. Core skills needed for developing emotional intelligence will also be discussed.
Oral Communication	OCOM101	This course is designed to empower students to speak effectively in a public forum. Students will learn public speaking contexts, topic selection, audience analysis and ethical communication. Students will practice organizing and outlining ideas, constructing introductions and conclusions, and utilizing presentational aids. Students will deliver three speeches in this class; to include one demonstration speech, one informative speech, and one persuasive speech.
Pathology	PATH301	This course teaches a systems approach to categorize human diseases and other health conditions. Students will review case studies of selected major health problems and develop effective methods of clinical assessment and disease management. Students will strengthen their medical vocabulary; practice critical thinking skills and document case study findings.
Written Communication	WCOM101	This course is designed to empower students to write effectively. Students will learn to choose topics and organize their ideas and materials. They will practice writing a first draft, editing and proof reading their work for errors. Additionally, students will undertake a research project following a systematic process.
TECHNICAL COURSEWORK		
Abdominal Ultrasound Lecture	ABD211	Students will be introduced to anatomy, physiology and pathophysiology of the abdominal soft tissue structures. Additionally, students will appreciate the sonographic appearance of the visceral organs and vasculature, as well as the thyroid, testes and breast.
Abdominal Ultrasound Laboratory	ABD211L	Students will learn and demonstrate scanning protocols for the abdominal organs and vasculature in the on- campus laboratory. Emphasis is placed on basic patient evaluation, care, and preliminary reporting.
Advanced Vascular Sonography Lecture	VAS202	This lecture course will take the student to the upper levels of Advanced Vascular Sonography. The ultrasound scanning protocols will include radio frequency ablation of the superficial veins, IMT (Intima Media Thickness), renal insufficiency, penile Doppler and diabetes evaluation. A particular emphasis will be placed on carotid examination and disease state, intracranial study and disease, and lower extremity vascular study and disease. Students will also study vein mapping for

Surgical interventions, graft studies, upper vascular, renal failure with inclusion of hemodialysis and the study of patients with diabetes and pathology due to the disease.Advanced Vascular Sonography LaboratoryVAS202LThe student will perform bilateral carotid artery Duplex examination, transcranial Doppler (TCD), bilateral lower extremity arterial and venous Duplex examination, and bilateral upper extremity arterial and venous Duplex examination. Arterial segmental pressures of upper and lower extremities will be introduced. The student will also perform bilateral upper extremity or puplex, aorto-iliac Duplex examination, renal artery Duplex, aorto-iliac Duplex examinations. The student will also perform bilateral lower and upper extremity vein mapping.Medical Terminology IMT101Students will be introduced to medical terms nor anatomical structures and pathologies associated with the various body systems. Writing medical terms for anatomical structures and pathologies associated with the various body systems. Writing medical terms ind abbreviations will be discussed and practiced.Medical Terminology IIMT301This course builds on the basic medical terminology for anatomical structures and pathology of anatomical structures and pathology will be taught. Students will practice speaking, spelling and choosing the most relevant medical terms when writing technical reports. A Students will practice communicating effectively with patients and the health care team using medical terminology through role play activities.Musculoskeletal Ultrasound LectureMSK301This course introduces the student to the basic didactic and scanning techniques for evaluating the muscular system. Medical sonography is used to assess a variety of disorders of the muscul
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Musculoskeletal Ultrasound MSK301L Students will practice predetermined musculoskeletal
Laboratory ultrasound protocols of the upper and lower extremities.
Students will identify soft tissue anatomy and
differentiate pathology. Students will learn how to
present their findings and write preliminary reports.
Obstetrics and Gynecology OBG211 Students will be introduced to anatomy, physiology and
Lecture ultrasound appearance of the female pelvis. Special
emphasis will be placed on recognizing normal and
abnormal anatomy of the uterus, ovaries, fallopian tubes
and adnexa. In the obstetrical portion, students will be
exposed to the trimesters, normal and abnormal fetal
development, the placenta, fetal presentation, and fetal
biometry.

Obstetrics and Gynecology	OBG211L	Students will learn and demonstrate gynecology and
Laboratory	ODGZIIL	obstetrical protocols, including biometry measurements
		and report writing. Limited obstetrical exams are
		performed on volunteers.
Procedures and Biopsy	PB301	Students will study the use of ultrasound guided
Lecture		interventional procedures for diagnostic and therapeutic
		purposes. The range of interventions covered will
		include biopsy of multiple abdominal and pelvic viscera,
		the chest, thyroid, breast and lymph nodes; vascular
		access; endoluminal biopsy; drainage procedures and sclerotherapy/radiofrequency thermal ablation.
		Students will learn the critical role of the technologist
		as a team member in preparing the patient and assisting
		the physician during the course of the procedure.
		Emphasis will be placed on sonographic technique
		required to assure a safe and successful intervention.
Ultrasound Physics and	PHY201	The properties of sound physics and machine
Instrumentation Lecture		instrumentation will be addressed. Students will gain a
		deeper understanding of the interactions of ultrasound
		within the human body and the proper use of ultrasound
		applications. Emphasis will be placed on ultrasound
		theory, parts of the machine, transducer construction/ function and Doppler principles.
Ultrasound Physics and	PHY201L	Students will learn "knobology" by scanning
Instrumentation Laboratory		predetermined protocols that afford manipulation of
		specific knobs and machine function. Emphasis is placed
		on the technical aspects of scanning and applying the
		principles of physics.
Vascular Sonography	VAS201	This course will address vascular anatomy, physiology,
Lecture		hemodynamics and disease of the vascular system.
		Emphasis is placed on intra/extracranial vessels as well
		as vessels of the upper and lower extremity arterial and venous systems. Doppler, Bernoulli's Principle,
		venous systems. Doppler, Bernoulli's Principle, Poiseuille's Law and relative statistics complete this
		course study.
Vascular Sonography	VAS201L	Students learn with a hands-on approach to perform
Laboratory		ultrasound on cerebral carotids and vessels of the upper
-		and lower extremity both arterial and venous. Doppler
		waveforms and spectral analysis, as well as initial
		impressions are taught. ABI's, blood pressure, and intima
		medial thickness are explained.
EXTERNSHIP		
Externship Preparation	EPL201	This course prepares students for clinical application of
Laboratory I		their skills via externship with a focus on what will make students successful professionals upon graduation.
		Students successful professionals upon graduation. Students will successfully complete all ultrasound
		protocols required in their program and required for
		clinical rotation. Students will also participate in career
		building tools required for long-term success in their
		chosen field of study, including professionalism,
		important clinical skills, patient care, case studies, and
		pathology. As a core component of this class, students
		must successfully complete all ultrasound protocols and
		pass an exit evaluation prior to Externship.

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Externship Preparation Laboratory Advanced II		This course prepares bachelors students for clinical application of their skills via externship with a focus on what will make students successful professionals upon graduation. Students will successfully complete all ultrasound protocols required in their program and required for clinical rotation. Students will also participate in career building tools required for long-term success in their chosen field of study, including professionalism, important clinical skills, patient care, case studies, pathology, and registry reviews. For all bachelor's students, this class will be taken prior to, or in conjunction with, EPL 402.
Externship Preparation Laboratory Advanced III	EPL402	This course adds to what the bachelors' students have learned in EPL 401. It is designed to refine the skills required for successful application of the skills students have learned thus far to real-life clinical settings. Students will successfully complete all ultrasound protocols required in their program and required for clinical rotation. Students will also participate in career building tools required for long-term success in their chosen field of study, including professionalism, important clinical skills, patient care, complex case studies, and pathology. As a core component of this class, students must successfully complete all ultrasound protocols and pass an exit evaluation prior to Externship.
Externship I (BS)	EXT401	Externship involves the direct interaction of the student within a specific medical environment. The student is assigned to a hospital, imaging center, clinic, or other environment in which ultrasound is performed on patients. Students observe and, when allowed by a supervisor, may perform a portion of the exam. This module serves to assist the student in making a successful transition from the school environment to a clinical setting. Students will write reports, present findings, and further explore pathologies.
Externship II (BS)	EXT402	Externship involves the direct interaction of the student within a specific medical environment. The student is assigned to a hospital, imaging center, clinic, or other environment in which ultrasound is performed on patients. Students observe and, when allowed by a supervisor, may perform a portion of the exam. This module serves to assist the student in making a successful transition from the school environment to a clinical setting. Students will write reports, present findings, and further explore pathologies.