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President’s Welcome

Thank you for your interest in participating on our Advisory Committee. Our faculty and staff rely on seasoned input from a range of community professionals to ensure that Volunteer State Community College has the latest information on which to base our program decisions.

We depend on our advisory committee members to share with the College the latest trends in the area’s workforce. Advisory committee members are also active participants in preparing our students for internships, service experiences and other pre-employment activities. Occasionally we may also ask that you participate in program or college accreditation processes. Finally, and perhaps most importantly, advisory committee members help share with the community the compelling story of our high quality career/technical education programs.

This handbook was developed based on faculty, staff, and advisory committee input. The purpose of the handbook is to align the advisory committee process with our College vision. Your active participation will help us achieve that goal.

On behalf of the faculty, staff, and students of Volunteer State Community College, we thank you for your interest and involvement in this very important endeavor.

Jerry L. Faulkner, Ph.D.
President
Vision for Career/Technical Education (CTE) Advisory Committees

- assist in positioning the College as a leader in regional education, workforce training, and economic development programming
- assist the College in developing mission-consistent educational and training solutions for area businesses and industries
- assist the College in effectively responding to community input regarding the determination of educational programs and curriculum
- assist the College in meeting the standards and expectations of the Tennessee Higher Education Commission (THEC), the Tennessee Board of Regents (TBR), the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), and the respective program-specific accrediting, certifying, and approval agencies

Overview of CTE Advisory Committees

The career/technical advisory committees’ primary purpose is to advise and serve as the link between the College and the area’s business and industry community. Volunteer State’s career/technical programs are designed to prepare completers for entry-level positions in a variety of fields in the workforce, as well as preparing individuals currently in the workforce seeking career-advancement and/or enhancement training.

The advisory committees are groups of business and industry experts selected by the College to serve in an advisory capacity to the College’s career/technical programs. Properly functioning advisory committees help the College administration, faculty and staff members in ensuring that programs reflect the changing needs and interests of areas citizens, the business and industrial workforce, and the communities they represent. The committees shall be advisory only, having no administrative authority, and are not created to take away any of the rights and/or privileges of the College administration and program staff members.

The administration of Volunteer State Community College actively supports the important role of advisory committees. The College values the
consultative nature of advisory committees and recognizes the significance of the advice, insight and feedback to faculty, administration and staff regarding the alignment of college programs with the area’s workforce needs. Advisory committees are called upon to be active participants in the program evaluation and effectiveness processes and curriculum review. Committee members also play a major role in assisting the program staff in the identification and development of clinical and internship training sites, and provide a vital service to the College by identifying and soliciting external sources of funding and support for the development of new programs and expansion and enhancement of existing programs.

**CTE Advisory Committee Structure and General Guidelines**

Committee membership represents a broad range of community leaders from business, industry, healthcare, government, and service agencies. The number of committee members varies with the specific program; however, every attempt is made to select a representative cross section for each program area. Many committees have a lay Chairperson who is elected by the committee members or appointed by the College. In addition to the appointed members of an advisory committee, the Division Dean and faculty responsible for the program, as well as the Vice President for Academic Affairs, attend committee meetings. On most committees, student representatives also serve as members.

Members are typically appointed for one to three years and may be re-appointed for additional terms. Service is, of course, voluntary on the part of appointed committee members.

Each advisory committee shall meet at least once a year. Special meetings may be called by the program staff or chairperson.

The majority of the duties and responsibilities of committee members are consistent from one committee to another. In some cases, however; external factors, such as variations in the levels of emphasis of a particular accreditation standard by an agency, may impact the actual duties and responsibilities of the members of that committee. A detailed listing of the primary duties and responsibilities related to the committee to which you have been appointed are outlined in Section 2 of this handbook.
Section 1. Diagnostic Medical Sonography Program

Overview of the Career

Diagnostic Medical Sonography is a technical science that deals with the use of ultrasound for diagnostic purposes in medicine. Sonographers, also known as ultrasound technologists, use high frequency sound waves to image structures within the body. Diagnostic Medical Sonography offers graduates employment in hospitals, clinics, and private offices. Skilled sonographers can advance to administrative, teaching, research, or sales positions as well as specialized concentrations within the profession.

The sonographer is responsible for the production of diagnostic images and is a technical assistant to the physician/radiologist To prepare for this career, sonography students will learn to perform abdomen, obstetrical, gynecological, and small part exams. Students will also be required to learn patient care skills, medical ethics, and the communication skills necessary to function as a member of the health care team. Students will also be trained in the physics of ultrasound and will also learn how to operate ultrasound equipment. Because the Diagnostic Medical Sonography program requires a high concentration in biology and technology, students are encouraged to obtain a strong background in high school sciences (such as biology, chemistry, and physics) and math (algebra and geometry.) Computer skills are also recommended.

Additional information on the profession can be found at:

American Institute of Ultrasound in Medicine
Society of Diagnostic Medical Sonography
American Registry of Diagnostic Medical Sonographers
**Program Description**

The Diagnostic Medical Sonography Technical Certificate program is designed to prepare the student to become a diagnostic medical sonographer. Sonographers are skilled professionals who provide patient services using diagnostic ultrasound under the supervision of a physician. Those who choose a career in sonography will become linked with the most modern use of sound in medical diagnosis. They will be required to master scientific principles and technical skills and to cultivate professionalism toward and empathy for their patients.

This competency-based program requires four semesters to complete and is designed to provide didactic and clinical training in the field of general and vascular Diagnostic Medical Sonography. The program of study includes training in the fields of acoustic principles, instrumentation, and safety, as well as abdominal, obstetrical, gynecological, vascular, and small parts sonography.

Upon successful completion of the program, students will be eligible and encouraged to take the American Registry of Diagnostic Medical Sonographers (ARDMS) examinations in the areas of Physics & Instrumentation, OB/GYN and Abdomen. To obtain the RDMS credential, an individual must pass the Ultrasound Physics and Instrumentation examination in addition to the Abdomen and/or OB/GYN specialty examination.

**Program Eligibility Criteria and Admission Requirements**

**Effective for Applicants for the Class beginning 2016**

The following MUST be completed and on file with Program Director by MAY 7 (no exceptions):

1. Submission of an Application to the College, meeting all the general admission requirements
2. To be considered for program admission, a candidate must meet all of the standards for one of the following eligibility paths:
Health science or Nursing Associate degree path

- Successful completion of a regionally accredited Associate Degree program in Nursing or in an Health science area that is patient-care related

Bachelor Degree path

- Successful completion of a BA/BS degree program from a regionally accredited college or university

MTSU 3:1 Degree path

- Successful completion of 3+1 pre-Diagnostic Medical Sonography Degree from Middle Tennessee State University

Required For Any of the Degree Paths:

1. Pre Health Science Interest Form
2. Copy of all transcripts to the Program Director with an official copy sent directly to the Office of Records
3. Two (2) sealed letters of recommendation on formal letterhead (preferably one being from a recent employer)
4. Resume
5. Documentation of a minimum of sixteen (16) observation hours in a general ultrasound department with a registered sonographer. All observation hours must be documented in the same year that application is being made.
6. Completion of:
   - Medical Terminology (AHC 115)
   - Human Anatomy and Physiology I with lab (BIOL 2010)
   - Human Anatomy and Physiology II with lab (BIOL 2020)
   - Non-calculus based Physics (PHYS 1030)
   - College Algebra (or higher) (MATH 1130)

Successful completion of the above courses requires a “C” or better. An “A” will improve the possibility of acceptance. Typically a minimum of a 3.0 GPA is required to be considered as a potential candidate.

Send the required material listed to:
Foreign Language Requirements and Transcript Evaluation

As English is the language of instruction, an adequate knowledge of written and spoken English is a prerequisite for admission. Regardless of country of origin, all applicants must demonstrate proficiency in the English language prior to acceptance. Foreign credentials must be evaluated by a Foreign Transcript Evaluation Agency. For more information, please call the Office of Admissions at (615) 230-3688.

Computer Skills
In order to be successful in the Diagnostic Medical Sonography program, basic computer skills must be acquired by the student prior to admission. Basic computer skills are considered to be word processing, presentation skills (power point) and E-mail usage. Instructional staff will expect that students will have these basic skills and may expect learning, submission of assignments and some educational interaction to occur while using the computer.

Technical Standards
In order to perform the duties of a Diagnostic Medical Sonographer, an individual must be able to:

- Push and pull wheelchair with patient seated in wheelchair.
- Lean over to lock wheelchair and lift footrests.
- Push and pull stretcher with patient resting on stretcher, lock and unlock stretcher for patient transfer.
- Push mobile equipment; maneuver around patient bed and through hallways in surgical suites.
- Verbally instruct patient in a clear, concise, easily understandable manner.
- Visually assess patient’s condition.
- Visually assess the sonographic image.
• Interact appropriately with patients, co-workers, visitors, and hospital staff.
• Read and comprehend written communications (i.e. Charts, exam requisitions) and provide written communication to medical and technical staff.
• Demonstrate manual dexterity in handling of items such as cassettes, syringes and needles, sterile items and transducers.
• Ability to ascend and descend stairway in case of fire or absence of elevator.
• Descend to the floor, resting on knees for performing chest compressions.
• Use extended arms and force of shoulders and upper back to compress chest 2 inches.
• Respond appropriately to sounds, i.e. patient voice and movements, at a normal conversational volume.
• Respond appropriately to equipment signals such as sound and light.
• Manipulate mechanical and patient care equipment simultaneously, i.e. dials, switches, push buttons, keyboards, transducer, and blood pressure equipment.
• Perform the functions of the job for a prolonged period without breaks, e.g., typical shift of eight hours.
• Demonstrate adequate visual acuity to differentiate among subtle shades of grey/color used in diagnostic sonography image formation.
**Estimated Program Costs**

For a full list of in-state and out-of-state maintenance/tuition costs and other College fee information, please see the [Business Office web page](#).

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<th>Clinical Costs (estimated)</th>
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<td>Obstetrics/Gynecology</td>
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<tr>
<td>Physical Principles and Instrumentation</td>
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</table>
Selection to Program and Notification

1. Up to 16 students are accepted for the Sonography Program on a competitive basis each year. The DMS Program admits a beginning class annually during the Summer Semester. **The deadline for submission of application materials is May 7th.**
2. Screening interviews will be held with each applicant in May or June.
3. A selection committee will review applications, conduct interviews, and make recommendations on selection. Selection scores include overall GPA, GPA in pre-requisites, and interview score(s).
4. Following acceptance into the Program, students must respond, in writing, confirming their intent to enroll, within 10 days after the postmarked date of their acceptance letters. A student who fails to respond will forfeit his/her place in the class.
5. Upon acceptance into the program, students must submit documentation of immunization/titers determining immunity to MMR.

Background Check

In an effort to comply with the recommendations of the [Joint Commission on Accreditation of Healthcare Organizations](https://www.jointcommission.org/) (JCAHO), the majority of the major healthcare facilities and agencies utilized by the College for clinical training require that each student undergo and pass a background check prior to participating in clinical rotations. Each student, at his/her expense, is responsible for acquiring the student background check report and authorizing the submission of results to the College.

**No students will be permitted to participate in a clinical rotation until the results have been received, reviewed, and accepted by the College. Failure to submit to and pass the required background check will result in the student being dismissed from the program.**
Program Accreditation

The Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Health science Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDS).

Effective Period: Continuing Accreditation through 2019.

Program Faculty

Jennifer Carroll  Program Director
jennifer.carroll@volstate.edu

Lisa (Wells) Holloway  Instructor and Clinical Coordinator
lisa.wells@volstate.edu

Clinical Affiliates for 2016-2017

<table>
<thead>
<tr>
<th>Clinical</th>
<th>Contact</th>
<th>Address</th>
<th>City, State, Zip</th>
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<tbody>
<tr>
<td>St Thomas Midtown</td>
<td>Pamela Burns, Clinical Instructor</td>
<td>2000 Church St</td>
<td>Nashville, TN</td>
<td>615-284-7587</td>
</tr>
<tr>
<td>Centennial Medical Center</td>
<td>Ashley Kestner, Clinical Instructor</td>
<td>2300 Patterson St</td>
<td>Nashville, TN</td>
<td>615-342-3530</td>
</tr>
<tr>
<td>Cookeville Regional Medical Center</td>
<td>Amanda Baxter, Clinical Instructor</td>
<td>142 W. 5th Street</td>
<td>Cookeville, TN</td>
<td>931-646-2220</td>
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<tr>
<td>Gateway Medical Center</td>
<td>Wendy Crawford, Clinical Instructor</td>
<td>651 Dunlop Lane</td>
<td>Clarksville, TN</td>
<td>931-502-1000</td>
</tr>
<tr>
<td>Hendersonville</td>
<td>Sherry Billingham,</td>
<td>355 New Shackle</td>
<td>Hendersonville, TN</td>
<td>615-338-</td>
</tr>
<tr>
<td>Medical Center</td>
<td>Instructor</td>
<td>Location</td>
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<td>Phone Number</td>
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<tr>
<td>ABD Medical Center</td>
<td>Kelly Smith, OB/GYN Clinical Instructor</td>
<td>Island Road</td>
<td>37075</td>
<td>2022 or 615-338-1465</td>
</tr>
<tr>
<td>Monroe Carell Jr. Children's Vandy</td>
<td>Jason Hooper, Clinical Instructor</td>
<td>2200 Children's Way</td>
<td>37232</td>
<td>615-936-7290</td>
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<tr>
<td>St. Thomas Rutherford</td>
<td>Tonya Moore, Clinical Instructor</td>
<td>1700 Medical Center Parkway</td>
<td>37129</td>
<td>615-396-4100</td>
</tr>
<tr>
<td>Centennial Outpatient Center</td>
<td>Valerie Rutherford, Clinical Instructor</td>
<td>356 24th Avenue North</td>
<td>37203</td>
<td>615-342-8700</td>
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<tr>
<td>Northcrest Medical Center</td>
<td>Clinical Instructor</td>
<td>100 Northcrest Drive</td>
<td>37172</td>
<td>615-384-2411</td>
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<tr>
<td>Stonecrest Medical Center</td>
<td>Amy Jones, Clinical Instructor</td>
<td>200 Stonecrest Blvd</td>
<td>37167</td>
<td>615-768-2841</td>
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<tr>
<td>Summit Outpatient Imaging</td>
<td>Ivy Campbell, Clinical Instructor</td>
<td>100 Physicians Way Suite 100</td>
<td>37087</td>
<td>615-449-1004</td>
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<tr>
<td>River Park Hospital</td>
<td>Nina Wilcher, Clinical Instructor</td>
<td>1559 Sparta Street</td>
<td>37110</td>
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<tr>
<td>St Thomas Hospital</td>
<td>Ashley Thompson, Clinical Instructor</td>
<td>4220 Harding Rd.</td>
<td>37205</td>
<td>615-222-2164</td>
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<tr>
<td>Skyline Medical Center</td>
<td>Melanie Moore, Clinical Instructor</td>
<td>3441 Dickerson Rd.</td>
<td>37207</td>
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<tr>
<td>Summit Medical Center</td>
<td>Jessica Campbell, Clinical Instructor</td>
<td>5655 Frist Blvd.</td>
<td>37076</td>
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<tr>
<td>TN Maternal Fetal Medicine @ Baptist</td>
<td>Chelsea Bryant, Clinical Instructor</td>
<td>300 20th Ave. N. Suite # 702</td>
<td>37203</td>
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<td>VA Hospital-Murfreesboro</td>
<td>Mike Jones, Clinical Instructor</td>
<td>1312 24th Ave. South</td>
<td>37203</td>
<td>615-873-7359</td>
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<tr>
<td>VA Hospital-Murfreesboro</td>
<td>Nesheryl Williamson, Clinical Instructor</td>
<td>3400 Lebanon Rd</td>
<td>37129</td>
<td>615-867-6000 ext. 22745</td>
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<tr>
<td>Greater Nashville</td>
<td>Clinical Instructor</td>
<td>300 Stonecrest Blvd</td>
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<td><strong>Perinatology, Smyrna</strong></td>
<td>TBD</td>
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<td>Angie Owen, Clinical Instructor</td>
<td>4323 Carothers Pkwy, Suite 403</td>
<td>Franklin, TN</td>
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<tr>
<td><strong>Greater Nashville Perinatology, Nashville</strong></td>
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<td>2201 Murphy Avenue</td>
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<td>1800 Medical Center Pkwy Suite 460</td>
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<td>345 23rd Avenue North Suite 420</td>
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<td>353 New Shackle Island Rd Building B, Suite 226</td>
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<td><strong>Premier Radiology-Smyrna</strong></td>
<td>Clinical Instructor: TBD</td>
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<td><strong>Premier Radiology-Madison (Briarville)</strong></td>
<td>Clinical Instructor: TBD</td>
<td>1210 Briarville Rd Suite 602F</td>
<td>Madison, TN</td>
<td>37115</td>
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<td><strong>Premier Radiology – Hendersonville</strong></td>
<td>Clinical Instructor: TBD</td>
<td>262 New Schackle Island Rd Suite 206</td>
<td>Hendersonville, TN</td>
<td>37075</td>
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<tr>
<td><strong>Sumner Regional Medical Center</strong></td>
<td>Clinical Instructor: Danna Avery</td>
<td>555 Hartsville Pike</td>
<td>Gallatin, TN</td>
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<tr>
<td><strong>Sumner Station</strong></td>
<td>Clinical Instructor: TBD</td>
<td>225 Big Station Camp Blvd Ste 2</td>
<td>Gallatin, TN</td>
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## Curriculum

### Semester-by-Semester Sequence

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<th>Course</th>
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<td>UST 200</td>
<td>Introduction to Medical Sonography</td>
<td>2</td>
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<tr>
<td>UST 230</td>
<td>Physics and Instrumentation I</td>
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<td>UST 280</td>
<td>Abdominal Scanning I</td>
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<td>UST 211C</td>
<td>Clinical Education I</td>
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<td>UST 290</td>
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**Total Certificate Requirements – Credits (49)**
Courses

**UST 200 - *Introduction to Medical Sonography***

This course is designed to present the fundamental principals of Sonography to the entry level sonography student and identify internal structures, organs, and vasculature utilizing sonographic cross sectional anatomy concepts. The sonographic protocols discussed during this course are those that form the foundation of the clinical competencies that students must fulfill in this course and during clinical practicum courses. A detailed study of abdominal cross sectional anatomy with “in class” scanning is given to reinforce the anatomical criteria being studied.

*Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.*

**PREREQUISITES:** Formal acceptance into the DMS program.

**COREQUISITES:** UST 230, UST 280, UST 290

*Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

**UST 211C - *Clinical Education I***

In this course the sonographer will continue to explore the role of the sonographer in an actual clinical environment. This course is designed to expose the student to the role responsibilities of a clinical sonographer in the hospital/clinic situation by allowing observation of the sonographer in the daily hospital/clinic setting. Students will rotate through at least two (2) hospital/clinic facilities to gain experience in the performance of real time
ultrasound procedures and imaging. The student will begin the initial phase of instruction in scanning protocols.

Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: Formal acceptance into the DMS program.
COREQUISITES: UST 200, UST 230, UST 280, UST 290

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 230 - *Physics and Instrumentation I

This course is designed to provide students with a detailed explanation of physical principles and instruments of ultrasound. The theory of physics principles is discussed and their practical applications presented. Basic principles of instrumentation are discussed and the practical applications reviewed. Emphasis is on theory and clinical application. If the sonographer is to obtain the highest quality of diagnostic information, they must understand the underlying physical principles.

Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: Formal acceptance into the DMS program.
COREQUISITES: UST 200, UST 211C, UST 280, UST 290

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.
**UST 280 - *Abdominal Scanning I**

This course is designed to give the student an understanding of the anatomy, physiology and pathology of the abdomen. Specific abdominal topics include: aorta, IVC/porta hepatic, liver, gallbladder, and pancreas. Emphasis will be placed on sonographic features and characteristics of normal anatomy as well as the various disease processes that affect each organ. Each organ/structure will be discussed separately in terms of anatomy, physiology and pathology. Course content will then proceed to integrate clinical procedures, diagnostic procedures laboratory values, etc. that are common to all and specific to each organ.

**Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.**

**PREREQUISITES:** Formal acceptance into the DMS Program.
**COREQUISITES:** UST 200 , UST 211C , UST 230 , UST 290

**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

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**UST 290 - *OB/GYN Scanning I**

This course is defined to give the student understanding of the anatomy, physiology and pathology associated and/or identified in the female pelvis as well as its normal and abnormal sonographic appearance. This course is also designed to introduce the student to the first trimester of pregnancy and its related anatomy, physiology and possible pathology and/or complications. Embryology and early fetal development will be covered in detail. In addition, the sonographic identification and imaging of the embryo and fetus will be discussed. Transabdominal and transvaginal scanning techniques and protocols will be covered.
PREREQUISITES: Formal acceptance into the DMS Program.

COREQUISITES: UST 211C, UST 200, UST 230, UST 280

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 212C - *Clinical Education II

In this course the sonographer will continue to explore the role of the sonographer in an actual clinical environment. This course is designed to continue to expose the student to the role and responsibilities of a clinical sonographer in the hospital/clinic situation by allowing observation and real time scanning in the daily hospital/clinic setting. Students will rotate through at least two (2) hospital/clinic facilities to continue to gain experience in the performance of real time ultrasound procedures and imaging. The student will continue developing in the ongoing instruction of scanning protocols.

Semester Availability: SPRING ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200, UST 211C, UST 230, UST 280, UST 290

COREQUISITES: UST 231, UST 242, UST 255, UST 281, UST 291

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.
UST 231 - *Physics and Instrumentation II

This course is designed to provide students with a detailed explanation of physical principles and instruments of ultrasound. The theory of physics principles is discussed and their practical applications presented. Basic principles of instrumentation are discussed and the practical applications reviewed. Emphasis is on theory and clinical application. If the sonographer is to obtain the highest quality of diagnostic information, they must understand the underlying physical principles. This course is a continuation of UST 230.

Semester Availability: SPRING ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200 , UST 211C , UST 230 , UST 280 , UST 290
COREQUISITES: UST 212C , UST 242 , UST 255 , UST 281 , UST 291
Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 242 - *Small Parts Scanning

This course is designed to give the student an understanding of the anatomy, physiology and pathology of the thyroid, parathyroid, breast, prostate and scrotum, GI tract, superficial structures and neck masses and presented along with image analysis and differential diagnosis.

Semester Availability: SPRING ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200 , UST 211C , UST 230 , UST 280 , UST 290
COREQUISITES: UST 212C , UST 231 , UST 255 , UST 281 , UST 291
Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

**UST 255 - *Introduction to Vascular DMS***

This course is designated as an introduction into the field of vascular sonography. Basic vascular ultrasound instrumentation and clinical terms will be introduced.

**Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.**

**PREREQUISITES:** UST 200, UST 211C, UST 230, UST 280, UST 290  
**COREQUISITES:** UST 212C, UST 231, UST 242, UST 281, UST 291  
**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs*

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

**UST 281 - *Abdominal Scanning II***

This course is designed to give the student an understanding of the anatomy, physiology and pathology of the abdomen. Emphasis will be placed on sonographic features and characteristics of normal anatomy as well as the various disease processes that affect each organ. Each organ/structure will be discussed separately in terms of anatomy, physiology and pathology. Course content will then proceed to integrate clinical procedures, diagnostic procedures laboratory values, etc. that are common to all and specific to each organ.
Semester Availability: SPRING ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200, UST 211C, UST 230, UST 280, UST 290
COREQUISITES: UST 212C, UST 231, UST 242, UST 255, UST 291
Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 291 - *OB/GYN Scanning II

This course is designed to give the student detailed instruction in the role of Sonography in the second and third trimesters of pregnancy. Fetal development, physiology and anatomy will be discussed at length. In addition, all major fetal anomalies and maternal complications directly related to the second and third trimesters of pregnancy will be covered in detail. The sonographic imaging of the normal fetus and the fetus with anomalies will also be discussed.

Semester Availability: SPRING ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200, UST 211C, UST 230, UST 280, UST 290
COREQUISITES: UST 212C, UST 231, UST 242, UST 255, UST 281
Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.
**UST 213C - *Clinical Education III**

This course includes continued rotations through general sonography departments. Students must continue to achieve both speed and accuracy in competency requirements. A minimum of 24 hours per week of indirect supervised clinical education is required.

**Semester Availability: SUMMER ONLY - Semester Availability is subject to change. See your advisor.**

**PREREQUISITES:** UST 200, UST 211C, UST 212C, UST 230, UST 231, UST 242, UST 255, UST 280, UST 281, UST 290, UST 291

**COREQUISITES:** UST 232, UST 260, UST 270

**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work but it has been developed with a purpose other than being a university parallel course.

**UST 232 - *Physics and Instrumentation III**

This course is designed to provide students with a detailed explanation of physical principles and instruments of ultrasound. The theory of physics principles is discussed and their practical applications presented. Basic principles of instrumentation are discussed and the practical applications reviewed. Emphasis is on theory and clinical application. If the sonographer is to obtain the highest quality of diagnostic information, they must understand the underlying physical principles. This course is a continuation of UST 231.

**Semester Availability: SUMMER ONLY - Semester Availability is subject to change. See your advisor.**
PREREQUISITES: UST 200, UST 211C, UST 212C, UST 230, UST 231, UST 242, UST 255, UST 280, UST 281, UST 290, UST 291
COREQUISITES: UST 213C, UST 260, UST 270

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 260 - *Vascular I

This course is a study of the vascular anatomy and physiology in the normal and abnormal patient. The hemodynamics, pathology, and pathophysiology of the vascular system is discussed and analyzed. The pathology, clinical signs and symptoms, applicable lab values, pathophysiology, and differential diagnosis will be presented. Areas of focus to include hemodynamics, carotid and lower extremity imaging.

Semester Availability: SUMMER ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200, UST 230, UST 280, UST 290, UST 211C, UST 231, UST 281, UST 291, UST 212C, UST 242, UST 255
COREQUISITES: UST 232, UST 213C, UST 270

Vocational/Career Program Designation: *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.
UST 270 - *Vascular Testing and Lab I

Students will actively participate in laboratory scanning under the direct supervision of a staff instructor. As the student progresses in abilities, clinical competencies will be evaluated in various exams. The lab sessions will include experience and competency testing in vascular sonography. Case students and imaging critique will be performed.

Semester Availability: SUMMER ONLY - Semester Availability is subject to change. See your advisor.

PREREQUISITES: UST 200, UST 211C, UST 212C, UST 230, UST 231, UST 242, UST 255, UST 280, UST 281, UST 290, UST 291
COREQUISITES: UST 213C, UST 232, UST 260

Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

UST 214C - *Clinical Education IV

Students will continue rotations through general sonography departments. Students must continue to achieve both speed and accuracy in competency requirements. A minimum of 24 hours per week of indirect supervised clinical education is required.

Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.

COREQUISITES: UST 250, UST 262, UST 272

Vocational/Career Program Designation: *Designated primarily for vocational/career programs
This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

**UST 250 - *Registry Review***

This course includes final comprehensive review of all covered material. “Mock registries” are administered in preparation for national board Certification.

**Semester Availability:** FALL ONLY - Semester Availability is subject to change. See your advisor.

**PREREQUISITES:** UST 200, UST 211C, UST 212C, UST 213C, UST 230, UST 231, UST 232, UST 242, UST 255, UST 260, UST 270, UST 280, UST 281, UST 290, UST 291

**COREQUISITES:** UST 214C, UST 262, UST 272

**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

**UST 262 - *Vascular II***

This course is a study of the vascular anatomy and physiology in the normal and abnormal patient. The hemodynamics, pathology, and pathophysiology of the vascular system is discussed and analyzed. The pathology, clinical signs and symptoms, applicable lab values, pathophysiology, and differential diagnosis will be presented. This course will include examination of visceral Doppler, vascular testing, upper extremity imaging and hemodialysis studies.
Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.

**PREREQUISITES:** UST 200 , UST 211C , UST 212C , UST 213C , UST 230 , UST 231 , UST 232 , UST 242 , UST 255 , UST 260 , UST 270 , UST 280 , UST 281 , UST 290 , UST 291

**COREQUISITES:** UST 214C , UST 250 , UST 272

**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs*

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.

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**UST 272 - *Vascular Testing and Lab II***

Students will actively participate in laboratory scanning under the direct supervision of a staff instructor. As the student progresses in abilities, clinical competencies will be evaluated in various exams. The lab sessions will include experience and competency testing in vascular sonography. Case studies and imaging critique will be performed. This course is a continuation of UST 270.

Semester Availability: FALL ONLY - Semester Availability is subject to change. See your advisor.

**PREREQUISITES:** UST 200 , UST 211C , UST 212C , UST 213C , UST 230 , UST 231 , UST 232 , UST 242 , UST 255 , UST 260 , UST 270 , UST 280 , UST 281 , UST 290 , UST 291

**COREQUISITES:** UST 214C , UST 250 , UST 262

**Vocational/Career Program Designation:** *Designated primarily for vocational/career programs*

This course may be accepted as transfer credit by some colleges and universities, but that decision is made by the receiving institution. This course is collegiate level work, but it has been developed with a purpose other than being a university parallel course.
Section 2. Diagnostic Medical Sonography Program
Advisory Committee

Responsibilities/Activities of the Committee

DMS Advisory Committee members assist the College in program development and enhancement, help to set both short and long-range program goals, and assist the College in better understanding and interpreting community and employer needs.

The primary areas of committee emphasis and associated activities are as follows:

Curriculum and Instruction

- review and suggest revisions to course content
- compare/contrast curriculum with the needs of the profession
- identify and explore use of new technologies
- advise on labor market needs and trends
- review, recommend, and assist in obtaining instructional materials

Program Review

- review and recommend program goals, objectives, and evaluative benchmarks
- participate in program evaluation
- compare student performance standards to business/industry standards
- assess, recommend, and/or provide equipment and facilities
- participate in annual and long-term program planning and development
- assist in identifying new clinical sites/intern sites/teaching locations
- assist in accreditation activities
Recruitment and Job Placement

- assist in recruiting new staff and potential students
- notify program faculty of area job opportunities for graduates
- provide or assist in obtaining cooperative work experiences, internships/externships, or service-based learning opportunities for students
- assist with career/job fairs and related activities, if indicated
- assist in employment of graduates/program completers
- assist in conducting placement follow-ups with graduates and employers

Student Activities and Organizations

- sponsor activities in support of DMS student organizations
- support/encourage participation in DMS student organizations

Graduate and Faculty Professional Development

- support faculty participation in retraining and back to-industry technical skill building
- identify and support professional development opportunities for faculty and graduates

Community/Public Relations

- recommend the program to employers, community, and the media
- promote special College and program events
- assist in developing and implementing program marketing plans
Resources

- participate in annual review of program’s resource needs
- identify external sources of program funding and other levels of needed support
- provide tours and field trips, job shadowing experiences, and speakers
- leverage community resources and broker community partnerships
- assist in identifying and addressing special program needs (i.e., scholarships, equipment, supplies, external funding support for program expansion, etc.)

Evaluations

- participate in the annual evaluation processes regarding both program and advisory committee effectiveness; assist in the identification and implementation of any corrective and/or enhancement action plans
- participate in an annual review of graduate placement data, employer satisfaction survey results, and graduate licensure/certification results
General DMS Advisory Committee Information

Meeting times: 6:00 pm

Dates: Fall
Spring

Fall Semester Meeting

Tentative Topics:
Curriculum Update
Program Status
Program evaluation Report
Budget planning
Strategic initiatives

Spring Semester Meeting

Tentative Topics:
Graduation
Placement
Advisory Committee evaluation process

Location: TBA

Frequency of meetings: Twice a year

Special called meetings: Only when necessary

Special Projects and Areas of Emphasis for 2016-2017

Curriculum Review 2016-2017 Vascular
Clinical Site Enhancement: Ongoing
Self-study (vascular): 2017
Site Visit: 2018/2019
Graduation: August
## Advisory Committee Membership for 2016-2017

<table>
<thead>
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Section 3. General College Information

History
The establishment of a state community college at Gallatin involved the cooperative work of many civic leaders and citizens of Sumner County as well as State officials. A unified proposal for a college was presented by Robert L. Wendling, leading a Sumner County delegation, to the Tennessee Higher Education Commission in Nashville on September 11, 1967.

This local initiative anticipated future General Assembly action to authorize and appropriate funds. Upon the recommendation of State Education Commissioner J. H. Warf, Governor Buford Ellington presented the college legislation to the 1969 General Assembly, and it was adopted. Following this action, the Tennessee Higher Education Commission on June 2, 1969 authorized the State Board of Education to establish a community college in Sumner County. Commissioner Warf and his staff members, T. Wesley Pickel and Hal R. Ramer, accompanied by THEC Chairman John R. Long, Jr., and THEC executive John Folger, visited Sumner County to inspect four prospective sites provided by the county. City and county civic leaders hosted the visit. On July 29, 1969, Commissioner Warf notified Sumner County Judge I. C. McMahan that a 100-acre tract bought the property from Louis Green, Sr., and deeded it to the State on December 4, 1969. In accordance with State Board of Education requirements, the County also provided $250,000 toward initial construction costs, the City of Gallatin agreed to extend utilities to the site, and the City and County agreed in perpetuity to protect surrounding land zoning and area environmental conditions compatible to a college, along with the provision of police and fire safety services.

On May 8, 1970, Dr. Hal Reed Ramer was elected by the State Board of Education as the founding president of the newly authorized college, effective July 1, 1970. For the preceding seven years, he had been assistant state commissioner for higher education. President Ramer proposed to the Board and Chairman Warf that the new college be named Volunteer State Community College, and this was approved by the board on July 2, 1970. Groundbreaking ceremonies for the first four buildings, Hardaway Construction Company, contractor, were held on November 5, 1970. Pending completion and occupancy of the initial campus facilities in early
1972, temporary operations were located in the Cordell Hull Hotel building in Gallatin. Utilizing the hotel and the educational facilities of several Gallatin churches, the College began instruction in the fall of 1971 with 581 students. In 1972, the General Assembly established the Tennessee Board of Regents as the governing board for the State University and Community College System, at which time the central control of the College transferred from the State Board of Education to the Regents System. On February 1, 2003, Dr. Warren R. Nichols became Volunteer State’s second President. The College has experienced phenomenal growth in enrollment, curricula, staff, program, public service, facilities, and quality, into this, the thirty-sixth year of its operation. The main campus of Volunteer State is now comprised of sixteen buildings. Numerous off-campus operations extend the College's instruction and public service roles throughout its multi-county area. Since its 1971 inception through the current academic year, more than one hundred thousand persons have attended the College.

**Statement of Mission**

Volunteer State Community College is a public, comprehensive community college offering associate degrees, certificates, continuing education, and service to northern Middle Tennessee. The College is committed to providing quality innovative educational programs; strengthening community and workforce partnerships; promoting diversity, and cultural and economic development; inspiring lifelong learning; and preparing students for successful careers, university transfer, and meaningful civic participation in a global society.

**Degrees**

The College offers Associate Degree career programs in business, early childhood education and health science, plus university parallel programs in over 50 major areas.

- Associate of Applied Science-designed for job entry
- Associate of Arts-designed for transfer
- Associate of Science-designed for transfer
- Associate of Science in Teaching- designed for transfer

**Certificates**

The College offers a number of Technical Certificate programs specifically designed for job-entry skill development and workforce skill enhancement.