Jones County Junior College
Diagnostic Medical Sonography Program

INTRODUCTION
Diagnostic Medical Sonography, also referred to as Ultrasound, offers a challenging career with excellent opportunities for advancement. The profession is in need of both qualified entry level technologists and advanced level specialists.

Jones County Junior College welcomes your interest in Diagnostic Medical Sonography (DMS). We hope that you will find this both helpful and informative. It is designed to serve as a guide through the application process and to yield a general understanding of the DMS program. This document will provide basic information about the school, the application procedures, student selection, and school policies, as well as other useful information. It is not the intent of this to create a property interest in a job for any applicant, student, nor to become a contract of employment. Jones County Junior College reserves the right to make program changes as deemed necessary.

MISSION
The mission of the JCJC Diagnostic Medical Sonography program is to provide competency based educational opportunities to individuals that will enable them to obtain knowledge, skills, and attitudes necessary to succeed as sonographers.

PHILOSOPHY AND PURPOSE
In summary, the philosophy and purpose of the Associate of Applied Science Degree/Certificate option in the Diagnostic Medical Sonography Program are consistent with the philosophy and purpose of this college. The purpose of the Diagnostic Medical Sonography Program (DMS) is to prepare the graduate to function within the scope of practice of a Sonographer. The program will focus on meeting the needs of the Diagnostic Medical Sonographer. Faculty efforts will prepare students with skills, knowledge, and confidence to enter and to progress in the field of Diagnostic Medical Sonography, as well as to become an economically independent, productive, and contributing member of society.

DESCRIPTION of the PROFESSION
A Diagnostic Medical Sonographer is a highly-skilled professional who uses specialized equipment to create images of structures inside the human body that are used by physicians to make a medical diagnosis. The process involves placing a small device called a transducer against the patient’s skin near the area to be imaged. The transducer sends high frequency sound waves into the body that reflect off the internal structures. The transducer detects these sound waves as they are reflected off the internal structures and the reflections are analyzed by a computer in order to make an image of the structure(s) available for viewing on a monitor or other recording medium. Sonographers have extensive, direct patient contact that may include performing some invasive procedures. They must be able to interact compassionately and effectively with people whose condition ranges from healthy to critically ill.

The professional responsibilities include, but are not limited to:
* obtaining and recording an accurate patient history.
* performing diagnostic procedures and obtaining diagnostic images.
* analyzing technical information.
* using independent judgment in recognizing the need to extend the scope of the procedure according to the diagnostic findings.
* providing an oral or written summary of the technical findings to the physician for medical diagnosis
* providing quality patient care.
* collaborating with physicians and other members of the health care team.
Sonographers must also be knowledgeable about and limit the risk from possible exposure to blood and body fluids. Many Sonographers also assist in electronic and clerical scheduling, record keeping, and computerized image archiving. Sonographers may also have managerial or supervisory responsibilities.

SPONSORSHIP

Jones County Junior College assumes responsibility for the Ultrasound Program and is affiliated with clinical sites in Hattiesburg, Picayune, and McComb and additional sites. The Ultrasound program is a 12-month program leading to certificate with an Associates of Applied Science option with the required course work completed.

The school maintains the “Standards for an Accredited Educational Program in Diagnostic Medical Sonography”. The accreditation process and compliance with the "Standards" offer both a means of providing public assurance that a program meets accreditation standards and a stimulus to programmatic improvement.

The American Registry of Diagnostic Medical Sonography (A.R.D.M.S.) is the certification body of graduates/completers of the Jones County Junior College Diagnostic Medical Sonography program. Graduates/Completers of the program will be able to seek eligibility from the American Registry of Diagnostic Medical Sonographers or the American Registry of Radiologic Technology (Sonography Certification) to sit for their respective certification registries. Once the graduate/completer has successfully challenged either of the national certification registries, he/she will have earned the title of Registered Diagnostic Medical Sonographer (R.D.M.S.) from the A.R.D.M.S. and/or Registered Radiologic Technologist (Sonography) – R.T. (R)(S)(A.R.R.T.).

(Eligibility for registry certification required that the candidate be of good moral character. Candidates with past misdemeanors or felony convictions are advised to contact the A.R.D.M.S. and/or A.R.R.T. to determine eligibility.)

NON-DISCRIMINATION STATEMENT

Jones County Junior College does not discriminate on the basis of race, color, national origin, age, sex, or disability in its programs, activities, or employment practices. The following persons have been designated to handle inquiries and grievances regarding the non-discrimination policies: (ADA/Section504) Linda Abercrombie, ADA Coordinator, Jones County Junior College, 900 South Court Street, Ellisville, MS 39437, 601.477.4149; (Title IX) John M. Carter, Title IX Coordinator, Jones County Junior College, 900 South Court Street, Ellisville, MS 39437, 601.477.4161.

FINANCIAL AID

Various means of financial assistance are available to the students of the program. The Director of Financial Assistance has been designated to provide this information to the student. Students interested in financial aid or who have questions concerning such assistance should refer to the J.C.J.C. Student Handbook or contact the Director of Financial Assistance.

COUNSELING

Confidential student counseling is available to students of the program as needed. Program officials will interview each student individually if the student requests such assistance. Counseling services are available at Jones County Junior College through the Student Success Center. JCJC students are given the necessary assistance in planning their college lives in accordance with their individual needs and interest. Guidance in academic, career, and personal areas is provided by the counselors. Referrals to counseling services outside the college are facilitated by the Counseling Center.
APPLICATION REQUIREMENTS

1. Be accepted to or eligible for enrollment at Jones County Junior College
2. Have a minimum composite score of 17 on the American College Test (ACT)
3. Have a minimum G.P.A. of 2.5
4. Have a Bachelor’s of Science degree from an accredited institution in any field (preference will be given to medical and/or science related fields)
   **OR**
   Be a Registered Radiologic Technologist (A.R.R.T.) and in good standing with the American Registry of Radiologic Technologists, or be registry eligible with the American Registry of Radiologic Technologists. (Documentation must be provided as to status.)
   **OR**
   Hold a degree/diploma from an accredited two year allied health program that includes patient care and clinical training (for example; associate degree nursing, paramedic, pharmacy technology, etc).
5. Completed the Diagnostic Medical Sonography Application Package
6. Completed Anatomy and Physiology I and II with a “C” or better.
7. Completed a physical science (physics, physical science, or Radiologic Physics), college algebra, medical terminology, and an introductory computer course. These may have been completed as part of your current degree requirements.

Application Deadline is March 30th.

**Applicants must complete all prerequisites prior to applying for the Diagnostic Medical Sonography Program.** Prerequisites must be from a postsecondary institution such as a college or a hospital-based Radiologic Technology program. The number of students accepted into the Diagnostic Medical Sonography Program is based on the standards set by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). These requirements are based on the program’s clinical education setting availability. If an applicant is not accepted into the program and wishes to try again, he/she must submit another application.

APPLICATION FOR ADVANCE STANDING OR READMISSION

Application for advanced standing, transfer of credit, or readmission may be submitted at any time. Applicants who wish to apply for advanced standing, transfer of credit, or readmission into the program must submit a written request, meet all application requirements, and complete the application process. The request, application, and all required materials should be submitted to the Sonography Program Director.

Applications for advanced standing, transfer of credit, or readmission are considered based on available clinical positions, grades, course work, and references. Completed applications are presented to the Dean of Career and Technical Education and the Academic Dean for consideration. The applicant is then notified of the decision. Applicants applying for advance standing or readmission into the Diagnostic Medical Sonography Program must:
Step 1. Meet all general admission requirements of the college and all sonography program requirements.  
Step 2. Submit a completed sonography application (Deadline March 30th) including a written explanation describing the reason and type of admission being requested.  
Step 3. Submit official college transcripts from all colleges attended, including midterm grades if applicable.  
Step 4. Have course work equivalent to the level for which he/she is making application. And be able to make a minimum of 75% on an examination demonstrating knowledge for each course submitted for transfer credit.  
Step 5. Have clinical courses equivalent to the level for which he/she is making application. And be able to score a minimum of 85% on a demonstration of clinical skills for each competency submitted for transfer credit. Evaluation of competency will be evaluated by program instructor, two clinical instructors, and the medical director.  
Step 6. Submit a reference from the previous sonography program attended.

STUDENT SELECTION

Each applicant meeting the minimum requirements will be notified of the date, time, and location of the admission interview. The Diagnostic Medical Sonography Program may accept up to eight (8) students. Two alternates may also be selected. In the event that any of the selected applicants selected are unable to accept their position(s), the alternate/s will be contacted and offered the position/s.  

Admission into the Diagnostic Medical Sonography program is by way of an interview process with the Program Director and/or the Admissions Committee. The Program Director and/or Admissions Committee has the responsibility of screening all qualified applicants for the Sonography program who have submitted the required records and credentials, and have met the preliminary requirements.

From the applicants presenting themselves for admission, the Committee selects from those applicants those who are deemed most likely to successfully complete the Sonography program and enter the professions as a career. Selection criteria is based on academic records, G.P.A., A.C.T. scores, completed course studies, work experience, motivation and goals, and the personal interview. Acting upon the recommendation of the Admissions Committee, the Program Director will notify each applicant of the results, either selection or rejection.

The Admissions Committee does not discriminate against anyone protected by law because of age, creed, color, national origin, race, religion, sex, disability, disabled veteran, or other status. All applicants will be notified of the interview results promptly.

ADMISSION TO THE PROGRAM

**For the ARRT registry-eligible applicant, admission may be granted CONTINGENT upon the applicant providing documentation of registry certification by the American Registry of Radiologic Technologists. Documentation must be provided at least ten (10) days prior to the beginning of the Diagnostic Medical Sonography program.**

The newly selected students will attend an orientation meeting usually in late June or early July. The date, time, and location of the meeting will be addressed in the acceptance letter. The spouse, guardian, and/or parents of the students are welcome, and in fact, are encouraged to attend this meeting.

The Jones County Junior College Student Handbook and the Diagnostic Medical Sonography Program Student Manual will be issued at the orientation meeting. The manuals will be discussed and various forms
will be signed. Information contained in these manuals fully describes the responsibilities of the College, the Ultrasound Program, the Clinical Affiliates, and the Student. A thorough reading and familiarization of the manuals will be required of the student. **The student will also be required to sign a statement acknowledging the content of the manuals.** A written test will be given on the handbook/manual on the first day of class. This test will be included in the grade for the DMS 1114 course.
All forms requiring the student’s signature must be turned in on or before the first day of class. Any questions or concerns of the student, parent, guardian, or spouse should be addressed to the Program Officials before signing any of the forms.

**DEMONSTRATION OF SKILLS, ABILITIES, PHYSICAL REQUIREMENTS**
(adapted from the SDMS website)

**Applicants must be able to perform the following functions:**

1. Ability to effectively operate sonographic equipment and evaluate sonograms in order to acquire appropriate diagnostic information.
2. Ability to integrate diagnostic sonograms, laboratory results, patient history and medical records, and adapt sonographic examination as necessary.
3. Ability to use independent judgment to acquire the optimum diagnostic sonographic information in each examination performed.
4. Ability to evaluate, synthesize, and communicate diagnostic information to the attending physician.
5. Ability to communicate effectively with the patient and the health care team, recognizing the special nature of sonographic examinations and patient's needs.
6. Ability to establish and maintain effective working relationships with the public and health care team.
7. Ability to follow established departmental procedures.
8. Ability to work efficiently and cope with emergency situations.

**The student must be physically capable of carrying out all assigned duties:**

1. Emotional and physical health sufficient to meet the demands of the position.
2. Strength sufficient to: lift some patients, move heavy equipment on wheels (up to approximately 500 lbs), and to move patients in wheelchairs and stretchers.
3. Ability to maintain prolonged arm positions necessary for scanning.

**PREGNANCY POLICY**

**Declared Pregnant Student:** A student who has voluntarily informed the program officials, in writing of her pregnancy and the estimated date of confinement. A student has the right to declare their pregnancy; at such time the precautions listed below are recommended. The student also has the right to not declare their pregnancy, in which case, the student will be treated as through she were not pregnant. Once a student has declared her pregnancy, the student also has the right to undeclare her pregnancy at any time. This is in accordance with Federal and State laws.

**REINSTATEMENT POLICY**

The student who earns a final grade below a 75% on any Diagnostic Medical Sonography course will be ineligible to continue in the Diagnostic Medical Sonography Program. Applications for reinstatement must be in accordance with the following policy:

a. The student must inform the Program Director, in writing, of his/her desire to re-enter the Diagnostic Medical Sonography Program.
b. Reinstatement will be based on the recommendations of the Diagnostic Medical Sonography Program Admissions Committee.
c. If reinstatement is granted, he/she will re-enter the program as a full-time student at the next course offering.
d. A student who earns a course grade below a “75%” may be reinstated **ONE (1) time ONLY.**
e. The re-entry into the program must occur within one year.
MAXIMUM PROGRAM INVOLVEMENT
The maximum hours of clinical and academic involvement will not exceed a total of forty (40) hours per week. Students will not be exploited.

RELATED WORK POLICY
The Program recognizes that local hospitals and clinics may from time to time hire students enrolled in the Diagnostic Medical Sonography Program at Jones County Junior College to work as student sonographers. The Program takes no responsibility for ANY student while he/she is working outside the Program. The student should be aware that the liability insurance required by the college for all health care students ONLY covers a student’s activities while actively participating in the educational program. The liability insurance required by the college DOES NOT cover a student while employed as a student sonographer.

JCJC student uniforms, which include a name tag required by the Diagnostic Medical Sonography Program, are to be worn ONLY while attending clinical assignments. Student uniforms are not to be worn when the student is working outside of the Ultrasound Program. The student is aware of his/her responsibilities to the program before he or she enters the program, therefore, no changes in the program schedule will be made to accommodate outside work schedules.

ABSENTEE/TARDY POLICY

Academic Absences: The academic absentee and tardy policies are outlined in the college student handbook and program student manual.

Clinical Absences: ALL clinical absence time MUST be made up. Making up missed clinical time along with the scheduled didactic and clinical rotation must not exceed 40 hours; therefore, making up missed clinical time will be on the student’s own time. (Ex. During times when JCJC is not holding classes -weekends and school holidays.) **The student must submit, in writing, a request to the Program Director to be allowed to make up missed clinical time.**

LEAVE OF ABSENCE FOR REASONS OTHER THAN MEDICAL- will be considered on an individual basis. A written request stating the reason(s) for a leave of absence must be submitted and will be decided on by the Medical Advisor, Department Chair, and Program Director after counseling with the student.

DRESS CODE
The dress code of the program requires the student to purchase a minimum of two uniforms. The student will be required to report for assignments well groomed; wearing a clean, neat uniform each day. Students are asked to keep hair styles neat (no extreme colors or styles) and professional in appearance. No perfume or cologne will be allowed during clinical rotation. For the safety of the student sonographer, excessive jewelry such as dangling chains, long earrings, or facial piercing/s will not be allowed during clinical time. Gum chewing will be prohibited in clinical rotation, also. Applicants having questions concerning the program dress code should contact the Program Director for more detailed information.

CONDUCT
The student will be required to comply with all rules, policies, and regulations of the college, the program, and the clinical affiliates throughout the program.

GRADING SYSTEM
Grades are maintained for each individual course. These grades are derived by averaging grades earned from class work, assignments, examinations, and/or clinical laboratory and competency evaluations.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>60 - 69</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>B</td>
<td>Above Average</td>
<td>0 - 59</td>
<td>Failing</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
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</table>
MINIMUM REQUIREMENTS
Students are required to maintain the following minimum grade averages to remain in the Ultrasound program:
- **75%** in each didactic course
- **85%** proficiency on each clinical competency – Fall and Spring semester
- **90%** proficiency on each clinical competency – Summer semester

FINANCIAL INFORMATION
Information on tuition and fees can be found in the Jones County Junior College Catalog. In addition to tuition and general fees, the student should also expect additional cost during the program. Examples of some additional cost are indicated below:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>*C.P.R. Certification</td>
<td>$25.00</td>
</tr>
<tr>
<td>*T.B. Skin test</td>
<td>$20.00</td>
</tr>
<tr>
<td>*Hepatitis B Vaccination (3 @ $50.00 ea.)</td>
<td>$150.00</td>
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<tr>
<td>*Varicella Titer IGG</td>
<td>$30.00</td>
</tr>
<tr>
<td>*Uniforms (minimum of 2) (Include one lab coat minimum)</td>
<td>$125.00</td>
</tr>
<tr>
<td>*Shoes</td>
<td>$50.00</td>
</tr>
<tr>
<td>*Books (Available at the bookstore)</td>
<td>$990.00</td>
</tr>
<tr>
<td>*Lab Fees (40.00 each x 2)</td>
<td>$80.00</td>
</tr>
<tr>
<td>*Liability Insurance ($20.00 yr)</td>
<td>$20.00</td>
</tr>
<tr>
<td>*School Student I.D. Name pins (minimum 2 @ $5.00 ea.)</td>
<td>$10.00</td>
</tr>
<tr>
<td>*Organizational member fees</td>
<td>$40.00</td>
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<tr>
<td></td>
<td><strong>$1,540.00</strong></td>
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</tbody>
</table>

**THIS LIST IS NOT MEANT TO BE TOTALLY INCLUSIVE.** It is offered simply to give the student an idea of related cost. These costs are estimations and actual cost may vary. Other costs such as transportation, living expenses, etc . . . are also the responsibility of the student.

THE CURRICULUM
Each freshman Diagnostic Medical Sonography class at Jones County Junior College begins the Fall semester. Students are required to enroll as full time students each semester throughout either the two (2) year Associate in Applied Science or twelve (12) month certificate option program. Students receive approximately forty (40) hours of combined classroom instruction, clinical instruction, and practical experience each week during the one year program. Didactic (classroom) instruction precedes clinical (practical) instruction. The combination of didactic and clinical instruction prepares the student for supervised clinical participation in the Ultrasound Department.

Didactic and laboratory instruction are offered at Jones County Junior College. Clinical participation and scheduled rotations are offered at the clinical sites. Clinical Affiliates are located in Laurel, Hattiesburg, Collins, and Meridian. In the future, the Program may offer additional sites. Transportation to and from the clinical sites will be the responsibility of the student.
# DIAGNOSTIC MEDICAL SONOGRAPHY
(Ultrasound Technology)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Prerequisites</strong></td>
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</tr>
<tr>
<td>BIO 2514</td>
<td>Anatomy &amp; Physiology I (LAB)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2524</td>
<td>Anatomy &amp; Physiology II (LAB)</td>
<td>4</td>
</tr>
<tr>
<td>MAT 1313</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2244</td>
<td>Physical Science I (or higher) or Radiologic Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(radiology majors only)</td>
<td></td>
</tr>
<tr>
<td>BOT 1613</td>
<td>Medical Office Terminology</td>
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</tr>
<tr>
<td></td>
<td><strong>First Semester (Fall)</strong></td>
<td>18</td>
</tr>
<tr>
<td>DMS 1114</td>
<td>Introduction to Ultrasound (LAB)</td>
<td>4</td>
</tr>
<tr>
<td>DMS 1213</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>DMS 1313</td>
<td>Physics and Instrumentation (LAB)</td>
<td>3</td>
</tr>
<tr>
<td>DMS 1414</td>
<td>Clinical Experience I</td>
<td>4</td>
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<tr>
<td>DMS 1513</td>
<td>Abdominal Sonography</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Second Semester (Spring)</strong></td>
<td>17</td>
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<tr>
<td>DMS 1523</td>
<td>Obstetrics and Gynecology Sonography</td>
<td>3</td>
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<tr>
<td>DMS 1533</td>
<td>Advanced Sonographic Procedures</td>
<td>3</td>
</tr>
<tr>
<td>DMS 1323</td>
<td>Physics and Instrumentation (LAB)</td>
<td>3</td>
</tr>
<tr>
<td>DMS 1426</td>
<td>Clinical Experience II</td>
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<tr>
<td></td>
<td><strong>Third Semester (Summer)</strong></td>
<td>15</td>
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<tr>
<td>DMS 1613</td>
<td>Sonography Seminar</td>
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<tr>
<td>DMS 1623</td>
<td>Ultrasound Examination Critique</td>
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<td>DMS 1436</td>
<td>Clinical Experience III</td>
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<td><strong>Second Year (Associate's Degree)</strong></td>
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<td><strong>First Semester</strong></td>
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<tr>
<td>ENG 1113</td>
<td>English Composition I</td>
<td>3</td>
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<tr>
<td>PSY 1513</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td></td>
<td>Electives</td>
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<td></td>
<td><strong>Second Semester</strong></td>
<td>12</td>
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<tr>
<td>SPT 1113</td>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>CSC 1113</td>
<td>Introduction to Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1123</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fine Arts/Humanities Elective</td>
<td>3</td>
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</table>
DMS 1114 Introduction of Ultrasound –
Prerequisite: Acceptance into the Diagnostic Medical Sonography Technology Program and CPR. This course includes scanning protocols for the abdomen, superficial structures, as well as obstetrical and gynecological sonographic examinations. Students will become familiar with ultrasound equipment, types of film recording, video recording, and imaging techniques. Program specifics include dealing with emotional patients, legal-ethical issues, reporting procedures, and patient contact and the role of the sonographer in patient care. Three hours lecture. Two hours lab. Four semester hours credit.

DMS 1213 Sectional Anatomy –
Prerequisite: Acceptance into the Diagnostic Medical Sonography Technology Program and successful completion of Anatomy and Physiology 1 and 2. This course provides students with sectional anatomy of the abdomen, superficial structures, as well as obstetrical and gynecological structures. Gross anatomy and physiology are discussed. Students will be prepared to identify and discuss normal sectional anatomy as seen on ultrasound images. Three hours lecture. Three semester hours credit.

DMS 1313 Ultrasound Physics and Instrumentation I–
Prerequisite: Acceptance into the Diagnostic Medical Sonography Technology Program and Physical Science or higher. In-depth presentation of the basic principles of diagnostic medical ultrasound physics and instrumentation. Description of diagnostic ultrasound transducers and ultrasound interaction with tissues will be presented. Two lecture hours. Two lab hours. Three semester hours credit.

DMS 1323 Ultrasound Physics and Instrumentation II –
Prerequisite: DMS 1114, DMS 1213, DMS 1313, DMS 1414. This class includes an in-depth presentation of image display modes, Doppler, color Doppler, and hemodynamics of diagnostic ultrasound. The causes of artifacts and how to scan safely, conduct instrument performance measurements, and prepare for registry examinations. Two lecture hours. Two lab hours. Three semester hours credit.

DMS 1414. Clinical Experience I –
Prerequisite: Acceptance into the Diagnostic Medical Sonography Technology Program and CPR. The students will receive clinical instruction and hands-on experience in the scanning lab prior to being assigned to a clinical site. Students will be assigned to clinical sites to begin instruction from diagnostic medical sonographers. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images. Hands-on experience will be allowed only with direct supervision from a Staff Sonographer. Sixteen clinical hours. Four semester hours credit.

DMS 1426 Clinical Experience II –
Prerequisite: DMS 1114, DMS 1213, DMS 1313, DMS 1414. Students rotate through clinical affiliates to gain continued experience and knowledge in the performance of ultrasound procedures. Students are expected to have direct patient contact and perform ultrasound exams in clinical affiliates with the direct supervision of staff sonographers. Sonographic examinations performed by students should be reviewed by a staff sonographer prior to submission to the radiologist for interpretation. Twenty-four clinical hours. Six semester hours credit.

DMS 1436 Clinical Experience III –
Prerequisite: DMS 1513, DMS 1523, DMS 1533, DMS 1323, DMS 1426. Students will be able to follow the correct protocol for basic sonographic examination from the time patient enters the room until the patient’s examination is submitted to and is interpreted by a Radiologist. Students are in assigned clinical affiliates gaining clinical experience under the direct supervision from staff sonographers. Students may request to rotate through ultrasound specialty areas such as vascular and cardiac. Thirty-two clinical hours. Six semester hours credit.
DMS 1513 Abdominal Sonography -
Prerequisite: DMS 1114, DMS 1213, DMS 1313, DMS 1414. This course includes a presentation of pathology and pathophysiology that occurs with abdominal organs including the liver, spleen, pancreas, kidneys, and vascular structures within the abdomen and the correlation with sonographic imaging. The student will be able to recognize pathology and normal aging processes associated with the abdominal organs. Three hours lecture. Three semester hours credit.

DMS 1523 Obstetrical and Gynecological Sonography –
Prerequisite: DMS 1114, DMS 1213, DMS 1313, DMS 1414. This course provides a presentation of pathology and pathophysiology associated with female pelvic structures correlating with sonographic imaging. Sonographic evaluation of pregnancy from conception to birth including normal and abnormal fetal development is discussed. Sonographic evaluation of infertility and relating imaging procedures along with laboratory values will be presented. Three lecture hours. Three semester hours credit.

DMS 1533 Advanced Sonographic Procedures –
Prerequisite: DMS 1114, DMS 1213, DMS 1313, DMS 1414. Superficial structures including the thyroid, parathyroid, scrotum, breast, and associated pathology, pathophysiology, and laboratory values are presented. Sonographic image correlation is included. This course also includes vascular imaging, ophthalmic, cardiac and neurosonology. Students are introduced to areas of ultrasound outside of general sonography and are given a chance to review these areas for future reference. Three hours lecture. Three semester hours credit.

DMS 1613 Sonography Seminar –
Prerequisite: DMS 1513, DMS 1523, DMS 1323, DMS 1426. This course includes simulated, written as well as computerized, registry examinations in order to prepare the student to sit for the national credentialing registries. Three lecture hours. Three semester hours credit.

DMS 1623 Ultrasound Examination Critique –
Prerequisite: DMS 1513, DMS 1523, DMS 1533, DMS 1323, DMS 1426. This course is a presentation of case studies containing normal and pathology associated with: abdominal organs, superficial structures, gynecological structures, as well as obstetrical exams. Students should become more familiar with identifying pathology and imaging processes as well as normal variations within the human body as seen on sonographic images. Three lecture hours. Three semester hours credit.
CERTIFICATION in DIAGNOSTIC MEDICAL SONOGRAPHY

After graduation from or completion of the Jones County Junior College Diagnostic Medical Sonography program, the graduate/completer will be qualified to seek eligibility to sit for the registry of either the A.R.D.M.S. or the A.R.R.T. in sonography. Upon successful completion of the registry examination of the A.R.D.M.S., the student will have earned the credentials of Registered Diagnostic Medical Sonographer (R.D.M.S.), or upon passing the Sonography registry examination of the A.R.R.T., the student will have earned the credentials of Registered Technologist, R.T. (S) (A.R.R.T.).

CAREER/EDUCATIONAL ADVANCEMENT

After obtaining certification from the A.R.D.M.S. or the A.R.R.T., the sonographer may choose to continue his/her education by advancing into other imaging specialties or furthering his/her academic education. Advancement opportunities in other imaging categories include: echocardiography (adult and pediatric), vascular technology, pediatric sonography, breast sonography, musculoskeletal, breast, ophthalmologic, and possibly veterinary sonography.

EDUCATIONAL OPPORTUNITIES

Students of the Diagnostic Medical Sonography program may also pursue an Associate of Applied Science degree by following the second year curriculum of the Diagnostic Medical Sonography Program of Jones County Junior College. More information about this program may be obtained by contacting the Jones County Junior College Guidance Office or referring to the college catalog. We hope that you have found the information in this application packet and brochure helpful in your career choice. If you decide that Diagnostic Medical Sonography is the choice for you, we welcome your application.

If you have any questions or need further information about Diagnostic Medical Sonography, please contact:

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