

# AMERICAN MEDICAL SCIENCES CENTER 2015 CATALOG

## LICENSED TO OPERATE BY;"BPPE"

The **B**ureau for **P**rivate **P**ostsecondary **E**ducation  
2535 Capital Oaks Drive, Ste. #400  
Sacramento, CA 95833  
Phone (916) 431-6959  
[www.bppve.ca.gov](http://www.bppve.ca.gov)

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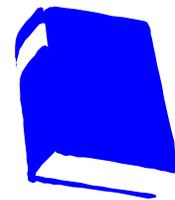
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As an eligible participant in  
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Federal Student Aid Information Center  
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Washington, DC 20044-0084  
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Sacramento, CA 95833-7859  
(916) 263-7800.

## APPROVED BY"SEVP"

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(202)305-2346  
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[www.amsc.edu](http://www.amsc.edu)**

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*Constitution Day observance commemorates the anniversary of the signing of the U.S. Constitution on Sept. 17, 1787, and honors and celebrates the privileges and responsibilities of U.S. citizenship. AMSC College will observe Constitution and Citizenship Day with a voter registration drive. Voter registration will be available for non-registered citizens who wish to Vote. The Financial Aid office will have a voter registration table in the Campus foyer, and Student Ambassadors will be distributing free copies of the U.S. Constitution.*

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## **WELCOME TO AMERICAN MEDICAL SCIENCES CENTER**

It is our pleasure to introduce you to American Medical Sciences Center. Our goal is to focus on career training for an applicant's successful professional and academic future. We will always strive to present the most up-to-date learning materials in order to give our graduates the necessary tools for placement in the workforce.

### **STATEMENT OF OWNERSHIP**

American Medical Sciences Center, is a private educational California corporation, was acquired in March 1996. Institutional approval from the Bureau for Private Postsecondary and Vocational Education was received pursuant to California educational Code 94915 and granted in May 1997. Mr. Vardan Karagezian owns the American Medical Sciences Center. The owner possesses a Master's Degree in Electronic Technology and Medical Cybernetics and has more than 20 years of experience in the field of Sonography and ultrasound.

### **MISSION STATEMENT**

The Mission of American Medical Sciences Center is to provide innovative, quality programs that are sound in concept, implemented by a highly skilled faculty and designed to serve the needs of students to achieve their educational, professional and personal goals. The final goal of the AMSC College is to empower its students to succeed in obtaining an entry to mid-level positions and to advance within the healthcare Industry by maintaining strong long-term employment.

### **OBJECTIVES**

Education and training at American Medical Sciences Center are directed toward preparing students to:

- Develop technical skills, knowledge and understanding of their application;
- Develop professional attitudes and behaviors related to study and work habits;
- Develop interpersonal communication skills, self-discipline and confidence;
- Utilize modern equipment;
- Provide the most reliable job placement assistance to our graduates;
- Render continuous active participation in national, state, and legal professional organizations;
- Continue to develop courses to meet the changes in the modern technology.

### **LEGAL CONTROL**

American Medical Sciences Center is a private postsecondary school. It is organized and operated as a California corporation known as the American Medical Sciences Center. The College is in compliance with all local, state, and federal laws and regulations. AMSC does not have any petition filed within the preceding five years nor has had a petition in bankruptcy filed against it within the past five years resulting in reorganization under Chapter 11 of the US Bankruptcy code.

### **STATEMENT OF NON-DISCRIMINATION**

AMSC does not discriminate on the basis of sex, age, physical handicap, race, or religion in its admissions to or treatment in its programs including training, placement and employment. The school owner/director is the coordinator of Title IX, the Educational Amendments Act of 1972, which prohibits discrimination on the basis of sex in any education program or activity receiving Student financial assistance.

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## **APPROVALS , ACCREDITATION**

The American Medical Sciences Center is licensed by the Bureau for Private Postsecondary Education pursuant to California Educational Code 94915 in 1996. Students who successfully complete a course of study are awarded an appropriate diploma or certificate of completion. This school voluntarily undergoes periodic accrediting evaluations by teams of qualified examiners including subject experts and specialists in occupational education and private school administration. Any questions a student may have regarding this catalog that have not been satisfactorily answered by the institution may be directed to:

**The Bureau for Private Postsecondary Education**  
2535 Capital Oaks Drive, Ste. 400  
Sacramento, CA 95833  
Phone (916) 431-6959  
[www.bppe.ca.gov](http://www.bppe.ca.gov)

The American Medical Sciences Center is institutionally accredited by the Accrediting Bureau of Health Education Schools.

**The Accrediting Bureau of Health Education Schools**  
7777 Leesburg Pike Suite #314 N.  
Falls Church, Virginia 22043  
Phone (703) 917-9503  
[www.abhes.org](http://www.abhes.org)

The American Medical Sciences Center, is approved by

**The Student and Exchange Visitor Program**  
Department of Homeland Security and Department of State.  
Phone (202)305-2346  
[www.ice.gov](http://www.ice.gov)

The American Medical Sciences Center, is accredited by

The **Board for Vocational Nurses and Psychiatric Technicians (BVNPT)**,  
2535 Capitol Oaks Dr., Suite 205,  
Sacramento, CA 95833-7859,  
Phone (916) 263-7800.

## **VOCATIONAL PROGRAMS OFFERED**

### **DIAGNOSTIC MEDICAL SONOGRAPHY**

*Associate of Applied Science(AAS) Degree Program*  
2,290.0 CLOCK HOURS / 104.0 WEEKS  
101.0 SEMESTER CREDIT HOURS

### **DIAGNOSTIC MEDICAL SONOGRAPHY**

*Diploma Program*  
1980 CLOCK HOURS / 78 WEEKS  
SEMESTER CREDIT HOURS 78.5

### **ECHOVASCULAR TECHNOLOGY**

*Diploma Program*  
900 HOURS / 30 WEEKS  
29.0 SEMESTER CREDIT HOURS

### **VOCATIONAL NURSING**

*Diploma Program*  
1,624 CLOCK HOURS / 67 WEEKS  
90.5 QUARTER CREDIT HOURS

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## **INSTRUCTIONAL FACILITIES**

American Medical Sciences Center is located at 225 West Broadway, Suite 115, Glendale, CA. It is near the 134 freeway and easily accessible by several surface streets. More than 3,390 square feet of classroom, laboratory and office space is available. Each classroom and laboratory contains sufficient equipment and supplies to meet the needs of each curriculum and student. The building is equipped with heating and air conditioning systems. Entrances and exits are conveniently located so that the building can be cleared quickly and safely in an emergency.

AMSC physical library is co-located with examination preparation room between the emergency exit and two laboratories. Also, AMSC is a part of virtual library called LIRN. All new students must see admissions department for more information on how to access LIRN.

AMSC does not provide any housing accommodations to its students.

## **EQUIPMENT**

**DIAGNOSTIC MEDICAL SONOGRAPHY**-The Diagnostic Medical Sonography Program has lecture classrooms and laboratory rooms equipped with ultrasound 6 machines.

4 “ACUSON SEQUOIA 512 ” and 2 “TOSHIBA ” with multi-frequency probes, more than 35 modern PC computers with appropriate 2D/3D software, TV(s), VCR(s), video sceneries, books, anatomical charts, white board, chairs and tables.

**VOCATIONAL NURSING**- The Vocational Nursing Program has lecture classroom with computers with appropriate software and laboratory room equipped with electric bed, medication and isolation carts, dummies, oral and rectal thermometers, scale and blood pressure instruments, IV pumps, IV pools and more necessary instruments for educational purpose more than 20 computers with appropriate software, wide-ranging TV for video presentation, also, books, anatomical charts, white board, chairs and tables.

**ECHOVASCULAR TECHNOLOGY** -The Echovascular Technology Program has lecture classrooms and laboratory rooms with an ultrasound 4 machines “ACUSON SEQUOIA 512 ” with multi-frequency probes, computers, test preparation programs, TV, VCR, video presentation environment, books, anatomical charts, white board, chairs and tables.

## **TUITION POLICY**

Tuition is the major part of the cost of study and is agreed upon at the time of enrollment. The Enrollment Agreement reflects the tuition, other fees that may be applicable, and the terms of the agreement. Tuition is due and payable on the first day of class unless other arrangements have been made with the Administration. It is expected that the agreed upon terms will be honored by each student; i.e. payments will be made consistently and on time.

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## REGULATIONS

Each student receives a catalog upon enrollment. General rules and regulations for AMSC concerning attendance, which are applicable to all students of the school, can be found in this Catalog. Students are responsible for knowing all of the school's rules and regulations; i.e. student conduct, dress code, attendance, make-up hours, etc. Students should be aware that criteria for admission and/or graduation might differ depending upon the individual program. Students are responsible for familiarizing themselves with all rules and regulations.

## FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The practices and procedures employed by the American Medical Sciences Center comply with the confidentiality and record availability laws of the Family Educational Rights and Privacy Act of 1974 and the Buckley Amendment. Students, parents of minors and guardians of "tax dependent" students have the right to inspect and challenge the information contained within the records for these students. Confidentiality of student and staff records is strictly protected. The school complies with Title IX of the 1972 Education Amendments, Equal Opportunity Act of 1972 (Title VII of the Civil Rights Act of 1964), Section 504, Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1993. Student information is not available to anyone without (a) a written request or release from the student, (b) a court order or appropriate government agency requirements.

## STUDENT RIGHTS/GRIEVANCE PROCEDURE

Most problems or complaints that students may have with the school or its administration can be resolved through a personal meeting with the school staff. Grievances must go through chain of command; 1) school personnel, 2) Director of Programs, 3) School Director. The chain of command will make every reasonable effort to resolve a grievance to the satisfaction of the student. Answers to grievances will be given no more than ten days after submission of grievance. The written complaint should contain (1) the nature of the problem(s), (2) approximate date(s) that the problem(s) occurred, (3) name(s) of the individual(s) involved in the problem(s) - staff and/or other students, (4) copies of important information regarding the problem(s), (5) evidence demonstrating that the institution's complaint procedure was followed prior to this point in time.

A student or any member of the public may file a complaint about this institution with the Bureau for Private Postsecondary Education by calling (888) 370-7589 or by completing a complaint form, which can be obtained on the bureau's Internet web site [www.bppve.ca.gov](http://www.bppve.ca.gov)

**The Bureau for Private Postsecondary Education**  
**2535 Capital Oaks Drive, Ste. 400**  
**Sacramento, CA 95833-7859**  
**Toll-free telephone (888)370-7589**  
**[www.bppve.ca.gov](http://www.bppve.ca.gov)**

## OCCUPATIONS TO WHICH THE COURSE OF INSTRUCTION LEAD

The Students who graduate from the DMS, EVT courses are qualified to apply for positions as Ultrasound Technologists, who perform the procedures related to General Sonography, including Vascular and Echocardiographic procedures. Vocational Nursing Graduates will meet the requirements to take the licensing exam (NCLEX-PN) and seek entry level positions in hospitals, clinics, patient care settings.

### PROGRAMS LENGTH

#	PROGRAMS	TOTAL CLOCK / HOURS	# OF WEEKS
1	DIAGNOSTIC MEDICAL SONOGRAPHY (AAS Degree)	2290.00	104.0
	DIAGNOSTIC MEDICAL SONOGRAPHY (Diploma)	1980.00	78.0
2	ECHOVASCULAR TECHNOLOGY (Diploma)	900.00	30.0
3	VOCATIONAL NURSING (Diploma)	1624.00	67.0

### FEES, CHARGES AND EXPENSES

#	PROGRAMS	TUITION	REGISTRATION AND INITIAL ASSESSMENT	TEXTBOOKS, OTHER LEARNING MEDIA	STRF	UNIFORMS AND OTHER FEE(S)	TOTAL CHARGES
1	DIAGNOSTIC MEDICAL SONOGRAPHY (Degree)	\$33,675	\$100.00	\$950.00	\$0.00	125.00	\$34,850.00
	DIAGNOSTIC MEDICAL SONOGRAPHY (Diploma)	\$28,900.00	\$100.00	\$475.00	\$0.00	\$100.00	\$29,575.00
2	ECHOVASCULAR TECHNOLOGY (Diploma)	\$9,950.00	100.00	\$400.00	\$0.00	\$100.00	\$10,550.00
3	VOCATIONAL NURSING (Diploma)	\$24,950.00	100.00	\$1,800.00	\$0.00	\$650.00	\$27,500.00

### ENROLLMENT AGREEMENT

No student may attend class without a valid student enrollment agreement. However, all tuition and other charges for the time the student was in attendance, under a valid enrollment agreement, will be honored as due or owing. The Enrollment Agreement protects the students from tuition increases for the period covered by the Agreement. It is the student's responsibility to maintain a current and valid Enrollment Agreement with the school.

### DESCRIPTION OF FACULTY AND QUALIFICATIONS

Each faculty member employed by the American Medical Sciences Center must be a qualified educator. The instructor must have the necessary education in the field in which she/he is conducting instruction; i.e. possess three years of education or experience or both which will qualify the candidate for hiring consideration.

### GRADUATION REQUIREMENTS

Graduation from all programs of study is accomplished by satisfactory completion of all course requirements, maintaining satisfactory attendance and a minimum grades point. Upon graduation, a student will receive a diploma in his/her program of study.

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## **SCHOLASTIC LEVEL EXAM POLICY**

The American Medical Sciences Center administers the Scholastic Level Exam (SLE) test to all its students. The test is designed to measure the student's ability to be successfully trained to perform the tasks associated with the occupations to which the program of instruction is represented to lead. All students must take and pass this test. If a prospective student fails a test, a retest will be given in seven days (only two attempts are permitted within six months). The test is administered in accordance with the test's instructions, rules and time limits.

## **STUDENT SERVICES**

The College assists students by providing them with access to programs outside the classroom. Academic advising is available to all students at the college by the instructors. Students are also referred to community professionals for personal, non-academic counseling.

## **CLASS SIZE**

Lecture classes will not exceed a ratio of one instructor/lecture to 15 students. Laboratory classes will have a ratio of one instructor to 15 students.

## **SCHEDULE OF CLASSES**

Each of the courses offered by American Medical Sciences Center is scheduled to start six times a year; i.e. once every two months.

## **COPYRIGHT POLICY**

The school will comply with United States copyright law (title 17, U.S. Code) including sections relating to educational and library use. American Medical Sciences Center will respect all copyright rights including:

- The rights of students in all material they create in and for school,
- The rights instructors have in material they created prior to being employed at the school and in material created while employed at the school.

## **PROGRAM DELIVERY**

Residential only

## **HANDICAPPED FACILITIES**

The American Medical Sciences Center does provide access and accommodations for the disabled.

## **HOURS OF OPERATION**

Monday through Friday 9:00am-10:00pm Saturdays 9:00am-1:00pm

## **AMSC CALENDAR**

AMSC observes the following holidays during which the school will be closed:

NEW YEAR DAYS	-	January	1, 2
MARTIN LUTHER KING DAY	-	January	19
PRESIDENT'S DAY	-	February	16
MEMORIAL DAY	-	May	25
INDEPENDENCE DAY	-	July	3,4
LABOR DAY	-	September	7
COLUMBUS DAY	-	October	12
VETERANS DAY	-	November	11
THANKSGIVING DAYS	-	November	26, 27
CHRISTMAS VACATION	-	December	24,25

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## **CLASSROOM RESPONSIBILITY**

Each student is responsible for the condition of his or her classroom including appearance of the room and the handling and arrangement of the equipment. Misuse of equipment will not be tolerated and may result in the student's dismissal and include billing for the damages caused on purpose. However, any accidents or breakdowns must be reported immediately. Students must understand that the condition of the classroom and equipment exists for their convenience and training; therefore, it is in the student's best interest to maintain both in good condition.

## **PERSONAL PROPERTY**

Students are responsible for their books, uniforms and other personal items. AMSC is not responsible for any person's lost or stolen items.

## **CHANGE OF PERSONAL INFORMATION**

Each student is responsible to notify the school of his or her new name, address, phone number, employment information (if applicable) and emergency contact person.

## **STUDENT RECORDS**

Official records are maintained for each student from the time of enrollment. All students and parents of tax-dependent students have the right to inspect information contained within the student's file. All student records will be maintained for a period of five years according to State law requirements.

## **ENGLISH AS A SECOND LANGUAGE**

The American Medical Sciences Center does not provide English as a Second Language programs. No portion of a program's delivered in a language other than English.

## **HEALTH CARE SERVICES**

AMSC does not provide health care services on the premises. Any medical emergency should be reported to the front desk immediately. These reports will be transmitted to the police, fire or emergency medical providers.

## **PLACEMENT SERVICES**

AMSC maintains job placement assistance and will make every effort to supply employment leads to all graduates. The school receives many calls from employers requesting its graduates for career openings. No guarantees are made concerning job placement as an inducement to enroll, nor can promises be made that placement is assured upon graduation.

## **PAYMENT PLANS**

The following payment plans apply to all students. The non-refundable \$75 registration fee is due on or before the first day of class, along with the down payment agreed to at the point of enrollment. The balance for the remaining charges of the program of study is paid in equal monthly installments during the student's enrollment period. Scheduled tuition payments will be billed monthly and mailed directly to the student's attention. Once the loan is obtained, the student has the responsibility to repay the full amount of the loan plus interest, less the amount of any refund. If any part of the tuition has been paid by the student, he/she is entitled to a refund of the moneys not paid from federal student financial aid program funds.

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## **ADMISSIONS REQUIREMENTS**

As a prospective student, you are encouraged to review this catalog prior to signing an enrollment agreement. You are also encouraged to review the School Performance Fact Sheet, which must be provided to you prior to signing an enrollment agreement. All applicants are required to complete an application form, take and pass the school's test which attempts to measure the applicant's aptitude to successfully complete the educational program for which she/he has applied and have complete an oral interview with the admission representative of the school. AMSC does not discriminate towards an applicant based on sex, religion, race, ethnic origin, age, natural origin or handicap. A handicapped applicant will be assessed according to his or ability to perform the essential functions required of a graduate of any particular program of study, with or without reasonable accommodations. AMSC reserves the right to refuse admission to any applicant who does not meet the school's established criteria for admission. AMSC does not accept Ability-to-Benefit(ATB) students. The general provisions for admission to the AMSC are as follows:

- Applicants must have a high school diploma or the equivalent.
- Take and pass the standardized test; and
- Must take part in mandatory school orientation.

## **ADMISSIONS PROCEDURES**

The following procedures are established for admission to AMSC

- The applicant will make an appointment with an Admissions Representative.
- The prospective student will be given a copy of this catalog.
- Prior to meeting with the admission representative, the applicant will;
  - a) Complete an admissions application.
  - b) Take the admissions entrance test.
  - c) If passing score is achieved 29 or better, the student will be scheduled for a personal interview. The interview will include disclosure of the completion and placement rates, tour of the facility, and discussion of tuition payment plans and the applicant's professional, educational and personal goals. The applicant will be asked to submit a high school diploma, or equivalency certificate, a transcript or other necessary documentation.
  - d) Refer to Vocational Nursing Admission Policy(for VN Program only)

## **FINANCIAL AID SERVICES**

The AMSC is eligible to participate in the Federal Student Aid (FSA) programs. Prior to enrolling at the AMSC, all applicants are encouraged to explore the availability of financial aid program. The financial aid officer provides financial aid information and application assistance. They will help you clearly understand your eligibility status before entering into a contractual agreement. Also, the school will observe its financial situation and to be useful to the community it may offer financial support of its own.

## **FINANCIAL AID ELIGIBILITY REQUIREMENTS**

The Free Application For Federal Student Aid (FSA) asks a series of questions that will determine your eligibility and dependency status. The eligibility requirements include:

- Being an U.S. citizen, or permanent resident in the United States.
- Being enrolled in an eligible program.
- Having a valid social security number
- Making satisfactory academic progress
- Being registered for the draft with Selective Service, if you are a male who is at least 18.
- Not being currently enrolled in high school
- Not having previously received a bachelor's degree (FSEOG AND FEDERAL Pell programs)



## **VOCATIONAL NURSING ADMISSION REQUIREMENTS**

All Vocational Nursing program applicants must:

1. Possess a High School Diploma or GED.
2. Pass a physical examination which indicates that the student is physically able to perform as a vocational nursing student and a vocational nurse. Further:
  - Students must have a negative Tuberculosis Skin Test or PPD (Paraphenylenediamine) or furnish chest X-ray results.
  - Students must furnish proof of vaccinations. If such proof does not exist, all vaccinations must be administered again.
  - Students must furnish proof of Hepatitis B immunity. If such proof does not exist, the shots must be administered again.
  - Students must furnish proof of drug clearance in the form of urine test results. If such proof does not exist, a student will be required to take another urine test.
3. Write and submit an essay outlining why the applicant desires a career in the healthcare field and why the applicant wants to enroll in AMSC Vocational Nursing program.
4. Interview with the program director after the essay is ready for submission.
5. Satisfactorily apply for loans and/or other aid if necessary to finance training.
6. Submit Live Scan fingerprints in order to establish clearance of a criminal background.
7. Submit an application and payment for malpractice insurance (NSO).



## **VOCATIONAL NURSING PROGRAM POLICIES**

### ACADEMIC PROGRESS

Vocational Nursing students are expected to maintain Satisfactory Academic Progress (SAP) to remain in the program. SAP is cumulative, applied to all students equally, and measured throughout each term of the program regarding both classroom and clinical performance. A minimum of 75% is necessary for a student to pass theory exams and as a cumulative theory grade at the end of each term in order to advance to the next term. SAP evaluations for both theory and clinical progress will be conducted at each mid-term and end of term. Any student receiving an unsatisfactory/failing grade on an SAP performance evaluation in either theory or clinical at mid-term may be placed on academic/clinical probation until the end of the term for theory or until clinical expectations are met. Any student receiving a failing theory grade and/or failing clinical evaluation at the end of term will be terminated from the program.

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## **THE STUDENT TUITION RECOVERY FUND (STRF)**

As of January 1st 2015, the state-imposed STRF fee is being subsidized by the State of California, due to STRF budget surplus. Once it is reinstated, you must pay the state-imposed assessment for the Student Tuition Recovery Fund (STRF) if all of the following applies to you:

- You are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition either by cash, guaranteed student loans, or personal loans, and
- Your total charges are not paid by any third-party payer such as an employer, government program or other payer unless you have a separate agreement to repay the third party.

You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if either of the following applies:

- You are not a California resident, or are not enrolled in a residency program, or
- Your total charges are paid by a third party, such as an employer, government program or otherpayer, and you have no separate agreement to repay the third party.

The State of California created the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic losses suffered by students in educational programs who are California residents, or are enrolled in a residency programs attending certain schools regulated by the Bureau for Private Postsecondary Education. You may be eligible for STRF if you are a California resident or are enrolled in a residency program, prepaid tuition, paid the STRF assessment, and suffered an economic loss as a result of any of the following:

- The school closed before the course of instruction was completed.
- The school's failure to pay refunds or charges on behalf of a student to a third party for license fees or any other purpose, or to provide equipment or materials for which a charge was collected within 180 days before the closure of the school.
- The school's failure to pay or reimburse loan proceeds under a federally guaranteed student loan program as required by law or to pay or reimburse proceeds received by the school prior to closure in excess of tuition and other costs.
- There was a material failure to comply with the Act or this Division within 30 days before the school closed or, if the material failure began earlier than 30 days prior to closure, the period determined by the Bureau.
- An inability after diligent efforts to prosecute, prove, and collect on a judgment against the institution for a violation of the Act.

However, no claim can be paid to any student without a social security number or a taxpayer identification number. For further information or instructions contact

### **BUREAU FOR PRIVATE POSTSECONDARY EDUCATION**

2535 Capital Oaks Drive, Ste. 400

Sacramento, CA 95833

(916) 431-6959, (916) 263-1897

[www.bppe.ca.gov](http://www.bppe.ca.gov)

## **ELECTRONIC POLICY**

The AMSC maintains an electronic environment that includes a network, telephones, voicemail, and computers for faculty, staff and students. This environment is maintained to further the academic and administrative work of the College, and those uses take precedence over any others. Use of the electronic environment may not violate federal, state, or local law, including the laws of defamation, forgery, copyright/trademark infringement, and harassment. Use of the College's electronic environment for commercial purposes not relevant to the mission of the College is prohibited, unless specifically authorized in writing by the Director of Information Technology. Common resources, such as network bandwidth, are to be shared by all members of the College community. Violations of these conditions for the use of this environment are subject to the investigative and disciplinary procedures of the College, with the Associate Director acting in an advisory role.

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## **CAMPUS SECURITY**

AMSC is concerned with the security of its students and staff. The campus security is administered in accordance with the law. The school has adopted and implemented Section 668.48 of Public Law 101-542, "The Student Right-to-Know and Campus Security Act" effective September 1, 1992. The following procedure will be followed to insure campus security:

- The staff is trained to be aware of any unusual occurrences/behaviors on or around the campus grounds. Also, the staff is trained in notifying proper authorities.
- Certified instructors monitor all classrooms.
- The School Director, or his designee, secures the building each evening and insures that all students, faculty and staff have properly exited out of the building.

Campus training/awareness is provided to each new student and to newly hired employees during their orientation session. During this orientation session, the following information regarding crime prevention is provided and discussed:

- Each student and employee of the school is responsible for his or her personal belongings.
- Any infraction of the regulation relating to Public Law 101-542 must be reported to the proper school personnel immediately.
- All students and employees are responsible for conducting themselves as professionals at all times while on campus and/or while attending school functions.
- Students are provided with school rules and regulations during orientation and employees receive an employee handbook.
- Any student or employee who is found in possession of, using or selling alcoholic beverages and/or illegal drugs on campus will be suspended or terminated from school.
- All students and employees are provided with information during orientation, regarding the 'Drug Free' status of the school campus.

Any criminal action or emergency situation must immediately be reported to the front desk. Any such reports will be transmitted to the appropriate persons such as the Director, fire department, police, emergency medical services, etc. Unescorted persons have no access to any part of the AMSC facility beyond the reception area except already enrolled students or faculty. The following steps will be taken in the event of a criminal action or other emergencies:

- The School Director, or designated individual in his/her absence, is the first person to be notified in case of criminal action or other types of emergencies occurring on campus. The second contact person would be the Associate Director of the school.
- The school will immediately notify the proper law authorities. A written statement from the victim will be obtained.
- The school will abide by all legal requirements set forth by law enforcement.
- Medical and follow-up treatment services will be made available to the victim if required.

The physical facility goes through periodic inspection as required by the State of California/county as well as the city agencies.

- Students are provided with safety instructions at the time of enrollment.
- Fire department visits on a regular basis and fire escape routes are posted.
- CALOSHA requirements are followed.
- Earthquake procedures are routinely reviewed with staff and students.

## **2014 ANNUAL CAMPUS SECURITY REPORT**

Murder	Aggravated Assault	Rape	Burglary	Robbery	Motor/Vehicle Theft
0	0	0	0	0	0

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## CONDUCT POLICY

**DRESS CODE AND BEHAVIOR;** AMSC does not permit tank tops, blouses or shirts that expose the midsection, shorts, sandals, torn jeans, and any clothing that is generally considered unsuitable in the workplace. All students are expected to adhere to the general rules with regards to dress code, and any specific dress code regulation that a certain department may have as a result of type of training offered.

**EMERGENCY PROCEDURES;** An emergency is to be reported to any staff member or the front desk immediately. In the case of a fire, all students are to evacuate the building as calmly and orderly as possible since this will be the fastest way to get out of the building. In case of an earthquake, students and staff are to take shelter under a desk or a table until it is safe to exit the building.

**GROUND FOR DISCIPLINARY ACTION;** Unsatisfactory academic or attendance performance, frequent tardiness or early leaving, unprofessional behavior and/or conduct that disrupt the learning process are grounds for disciplinary action.

**ILLEGAL DRUGS;** The use or sale of non-prescription drugs, including but not limited to marijuana, cocaine, any stimulants and or depressants will not be tolerated on the school campus or at any school-sponsored functions off the premises. Any student believed to be under the influence or in possession of a non-prescribed drug will be dismissed from attending classes pending investigation of the matter. All students receive and sign the AMSC "Drug Information Supplement" and are responsible to abide by the material written in it.

**FOOD AND DRINKS;** No food and drinks (with the exception of water) are allowed in the classroom unless so designated by the Administration.

**SMOKING;** AMSC maintains a smoke-free environment. Smoking is only permitted in the designated areas outside the school premises. No smoking is permitted in front of the main entrance to the school.

**PERSONAL CALLS AND VISITS;** Students are not allowed to use the school phones for personal use. The front desk will only take messages for the student to whom a call is made and such message will be delivered to the student at break time unless it is an emergency. Visitors are also welcome only if a prior arrangement has been made and that the visit will not interfere with class time. In addition, since childcare services are not provided on AMSC premises, students, staff and guests are discouraged from bringing young children into the facility.

**HARASSMENT;** The study environment at AMSC will not be impeded or intimidated by hostile or offensive verbal or physical actions based upon race, sex, age, color, religion, physical limitation, ethnic background, national origin or the like.

**SEXUAL HARASSMENT;** The American Medical Sciences Center will not tolerate any sexual harassment by students or staff. The school defines sexual harassment as sexual advances made either verbal or physical. The school will not tolerate any hostile or intimidating conduct that interferes with a healthy educational environment or work performance.

**DISCIPLINARY PROCEDURES;** All disciplinary matters are reviewed by the Administration. The Administrative reviews may include written statements from students and staff and interviews with the parties involved. Decisions by the Administration may result in dismissal, probation, or other appropriate action.

**DISMISSAL;** After thorough investigation and discussion with regard to academic or conduct issues, AMSC reserves the right to dismiss any student for whom the continuation of his or her attendance would be a detriment to the student himself/herself, fellow students and or the school.

**HOUSING;** Non-residential AMSC has no dormitory facilities under its control.

1 BEDROOM	2 BEDROOM	DISTANCE FROM AMSC
\$1,000.00-1,300.00	\$1,300.00-1500.00	2-4 miles

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## ATTENDANCE POLICY

Attendance is mandatory and records are maintained daily in the form of sign-in sheets. Students are expected to arrive at the classroom and clinical site precisely at the starting time. The AMSC has the following regulations governing attendance.

- Any student wishing to take a leave of absence due to unavoidable absence of more than 7 days must request in writing. Leaves of absence are granted at the discretion of the School's Administration and will not be granted for more than 150% of the length of the program.
- A student who has been terminated from the program for violation of the attendance policy has the right to appeal in writing to the institution according to the Student Right/Grievance Policy guidelines.
- There will be a 10 % test score reduction for tests taken after the scheduled time/date.
- Students are required to attend class and clinical for the entire day to receive attendance credit for the day.
- At the end of a term, a student who has missed scheduled class/clinical hours will be placed on attendance probation beginning with the next term.

**ABSENCES;** Students not present in classroom or at clinical site at the start of class or clinical experience will be considered absent for the day, forfeit any unscheduled quizzes for the absent day, and will be required to make up the theory/clinical hours. Will be considered as excused under the following circumstances: serious illness substantiated by doctor's notes, death or birth in the immediate family. All other absences will be considered as unexcused unless solid reasons are presented in writing verifying mitigating circumstances. Students are advised to notify school officials of their absence.

- Excused absences are absences that cannot be avoided and are supported by documentation. Examples would include but not be limited to emergency medical treatment, communicable illness, temporary disability, court appearances, and family emergencies. The determination of an absence as excused is at the discretion of the Director of Dean.
- All absences must be made up before a student can progress to the next term, whether excused or not. Methods of make-up hours will include independent study assignments that approximate the number of theory hours missed. Clinical hours will be made up in the skills lab at the discretion of the Director of Nursing and will be equal to the number of hours missed. Absences occurring in the last term must be made up before the student is eligible for graduation.
- While on attendance probation, students may not have any unexcused absences in the term. Any student on attendance probation who incurs any unexcused absences from scheduled class/clinical hours has violated the terms of probation and may be terminated from the program.

**TARDINESS/LEAVING EARLY;** Tardiness are discouraged since it is disruptive to both the instructor and the students. Excessive tardiness may result in probation. There is however, a 10-minute grace period before a student is marked tardy. Three tardiness constitute one absence. Students leaving early will be considered as "left early". Frequent "Left early" without legitimate reasons may be also cause for probation.

**UNSATISFACTORY ATTENDANCE;** Students with 14 consecutive absences of calendar days will automatically be withdrawn from their program of study. This policy is based on the attendance requirements set forth by the BPPVE and followed by the school.

**SKIPPING CLASSES;** Such action will be considered as an unexcused absence.

**MAKE-UP HOURS AND/OR ASSIGNMENTS;** Any missed class time or assignment may require physical make-up time on the campus. Students are responsible to make the necessary arrangements with the appropriate school personnel to complete make-up time or assignments. The appropriate academic department must approve make-up of assignments, tests or retests.

**LEAVE OF ABSENCE (LOA);**The duration of the leave of absence may be granted for up to 30 days. Requests for leave must be submitted in writing to the School's Associate Director and must include an anticipated return date and be signed by the student. Students who fail to return from a LOA will be considered dismissed as of the last class day of attendance. As of the same date, the loan repayment process will be initiated. Any refund due will be made within thirty (30) calendar days from the end of an approved leave of absence. The School's Associate Director may grant more than one leaves of absence and/or waive interim satisfactory standards for circumstances of poor health, family crisis, or other significant occurrences outside the control of the student. It must be demonstrated by the student that the circumstances had or will have an adverse impact on the student's satisfactory progress in the academic program. Students will not be assessed additional tuition charges while on their Leave of absence. No waivers will be provided for graduation requirements. Time for an approved leave of absence will not be included in the calculation of a student's maximum program length.

**ATTENDANCE;**The school attendance policy is a minimum of 90% attendance during the course of study, which is calculated on a monthly basis. Breach of the school's attendance policy will result in attendance probation. Students placed on attendance probation will have 30 days to bring their cumulative attendance back up to 90%. For DMS program externship grade "A" (90% or more attendance) will be granted automatically to a student for ARDMS "SPI" exam information only. Final exit interview for externship grades may differ from board SPI exam final grades. If applicable, students may receive Federal Financial Aid while on probation. If this is not achieved at the conclusion of the probationary term, the student may have his/her probationary period continued for an additional 30-day term, or may be placed on active suspension for another 30 days. If during this period, the student fails to comply with the opportunity given, he or she will then be terminated.

## **TUITION REFUND POLICY**

The school realizes that under certain circumstances an enrolled student may not be able to continue his or her educational training. Accordingly, the school has a policy for equitable tuition adjustment. Records are maintained on tuition refunds and enrollment cancellations. Governmental or accrediting agency data is included if applicable. The refund policy of the school is published in the catalog and on the Enrollment Agreement. Both documents clearly state the obligations of the school and the student in cases of cancellation or withdrawal. For students who cancel their contracts prior to class starts, all refunds due will be made within thirty (30) days of the first day of class or the date of cancellation. For enrolled students, all refunds due will be made based upon the last date of attendance and are paid within thirty (30) days from the documented withdrawal date.

**RETURN OF TITLE IV FUNDS;**If the student has received Title IV student financial assistance funds, a "Return of Title IV Aid" calculation is used to determine the amount of Title IV funds a recipient is allowed to retain towards their educational costs. . If you obtained loan you are obligated to repay the full amount of loan plus interest less the amount of any refund. If the student has received federal student financial aid, the student is entitled to a refund of the money not paid from federal student financial aid funds. The Percentage of Title IV Aid earned is calculated by determining the scheduled calendar days completed in the payment period divided by the total calendar days in the payment period. Excluded are scheduled breaks of 5 days or more and days that the student was on an approved leave of absence. If this amount is greater than 60%, the earned percentage is 100%. The Amount of Title IV Aid Earned by the student is the Percentage of Title IV Aid earned times the total Title IV Aid disbursed plus the Title IV Aid that could have been disbursed for the payment period. All credit balances over \$1.00 will be issued to students within 30 days after the credit balance occurs.

**REJECTION OF AN APPLICANT BY THE SCHOOL;**Should the school reject an applicant for admission for any reason; the applicant will be entitled to a refund of monies paid.



## ACADEMIC PROGRESS POLICY

The students are expected to maintain Satisfactory Academic Progress (SAP) to remain in the program. SAP is cumulative, applied to all students equally, and measured throughout each term of the program regarding both classroom and clinical performance. The college employs the following procedure for unsatisfactory progress cases: If a student's grade point average is unsatisfactory for a calendar month or module, the student is counseled. If a grade point average is unsatisfactory for an additional month or module, the student will be placed on academic probation and be given a maximum of two months to bring their cumulative grade point average to 70% or be terminated from the course of study. Unless all modules are satisfactory completed, student will not be considered graduated. Should mitigating circumstances be present, the student will be placed on active suspension for a maximum of one month and be given a last opportunity to comply with the 70% grade point average or termination. The institution does not offer non-credit or remedial courses.

**RE-ENTRIES;** Students must go through re-entry procedures from an inactive/withdrawn status. Students on a dismissed or terminated status may appeal to the administration in writing for re-entry consideration. If the appeal is approved by the administration; i.e. the administration within five (5) days determined that there were mitigating circumstances or valid reasons were presented by the student, then the student could re-enter in his or her program and lost time would be added to the initial scheduled graduation date.

**MAXIMUM TIME FRAME;** All students must complete their programs of study within one and one-half time the period specified on their enrollment agreement. This timeframe takes into consideration the session for which the student is enrolled; i.e. morning, evening, afternoon or weekends. To ensure quantitative progress within each program, the school will assess such progress at midpoints of the academic year. At such time, the school will be able to determine whether the student can successfully complete the program within the established timeframes. If for any reason the program is not completed within the one and one half time period the student will be terminated from the school.

**INCOMPLETE GRADES;** Incomplete grades will revert to failing grades if not completed prior to graduation or prior to the commencement of any externship training if applicable.

**SUBJECT WITHDRAWALS;** The school does not allow subject withdrawals in a program of study.

**COURSE REPETITIONS;** Should a student need to repeat a course/class due to non-credit, non-punitive, or remedial reasons, it will be allowed and counted as course/class attempted and the higher grade will be calculated in computing the grade point average.

**PROBATION;** Is a status that may result due to an academic, financial or conduct problem-requiring correction. The student on probation will be permitted to attend classes. She/he must remedy the condition for probation within a specified time period. Failing to do so may result in continuation of probation, suspension or dismissal.

**BRUSH-UP CLASSES;** The school provides brush-up classes for the graduates to improve their already existing skills. Students can always let the school know that they need to come back for brush-up skills and the school will arrange a schedule for their attendance.

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## TRANSFERRING STUDENTS

**CREDIT FOR PREVIOUS EDUCATION/WORK;** The institution publishes and follows a policy for transfer of credit that requires consideration of credit from other institutions accredited by an agency recognized by the United States Department of Education (USDE) or the Council for Higher Education Accreditation (CHEA). AMSC does not allow credit for advanced placement or experiential learners.

**FROM OTHER COLLEGES OR SCHOOLS;**The transferability of credits you earn at AMSC college is at the complete discretion of an institution to which you may seek to transfer. Acceptance of the diploma you earn DMS program is also at the complete discretion of the institution to which you may seek to transfer. If diploma, that you earn at this institution are not accepted at the institution to which you seek to transfer, you may be required to repeat some or all of your coursework at that institution. For this reason you should make certain that your attendance at this institution will meet your educational goals. This may include contacting an institution to which you may seek to transfer after attending AMSC college to determine if your diploma will transfer. Students transferring from other colleges or schools to AMSC must take a test prior to any credit transfer. A score of 70% or better is required for each such exam in order to receive credit for that particular course or module. The student's training period will be reduced proportionately but not to exceed 30% of the course content. Tuition will be prorated based on the number of credits accepted due to the transfer. Students who are granted such credit may have their tuition reduced on a pro rata basis.

**FROM ONE PROGRAM TO ANOTHER ;**Should a student wish to transfer from one program to another, she/he must notify the administration with a written notice. There are no charges for a transfer based on the program of study. Transferring Students must take a test prior to any credit transfer. A score of 70% or better is required for each such exam in order to receive credit for that particular course or module. The student's training period will be reduced proportionately but not to exceed 30% of the course content. Students who are granted such credit may have their tuition reduced on a pro rata basis.

**TRANSFERABLE CREDIT;** Because each school makes its own determination as to transferable credit, AMSC has no articulation or transfer agreement with any other college and does not guaranty that any or all other schools and/or colleges will accept its credits.

**TRANSFERRING FOR VOCATIONAL NURSING PROGRAM;**Official Transcripts must be sent directly from the other schools or the armed forces to AMSC College for review and evaluation.

- If requested, prospective students may be required to supply course descriptions, syllabi or other supporting materials as proof for the equivalency for any course in question.
- The Program Director or the School Director will do transfer evaluations. An evaluation sheet is completed during the review of the documentation.
- If a student wishes to appeal the determination of credits granted, they may do so in writing and by supplying any other supporting documentation for their claim. The School Director will review the additional information and has final authority to grant or deny any transfer credits.
- Units you earn in AMSC programs in most cases will not be transferable to any other college or university. For example, if you entered our school as a freshman, you will still be a freshman if you enter another college or university at some time in the future even though you earned units here at our school. In addition, if you earn a degree, diploma, or certificate in our programs, in most cases it will not serve as a basis for obtaining a higher level degree at another institution.
- Students are encouraged to contact colleges or universities that offer bridge programs for VN to RN, to confirm if AMSC College credits will be accepted for transfer.

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## CANCELLATION / WITHDRAWALS POLICY

CANCELLATION - The student has the right to cancel the enrollment agreement and obtain a refund of charges paid through attendance at the first class session, or the seventh day after enrollment, whichever is later. Cancellation will occur when the student submits written notice of cancellation to the school at the specified address noted in the Enrollment Agreement.

### WITHDRAWALS

#### *OFFICIAL WITHDRAWAL*

A student will automatically be withdrawn from the program for the following reasons:

- Failure to return from an approved leave of absence on the scheduled return date.
- Failure to maintain satisfactory progress for two consecutive modules.
- Failure to fulfill financial agreements.
- Failing any course in the program twice during the one enrollment period

#### *UNOFFICIAL WITHDRAWAL*

If the student fails to attend school for more than 14 consecutive days, the school will consider the student a drop and automatically withdraw him/her from the program.

The student has the right to cancel the enrollment agreement and obtain a refund of charges paid through attendance at the first class session, or the seventh day after enrollment, whichever is later following the first class the student attended, the school will remit a refund, less a registration fee not to exceed \$75.00, within 30 days following their withdrawal. The student is obligated to pay only for educational services rendered and for unreturned books or equipment. The refund shall be the amount they paid for instruction multiplied by a fraction, the numerator of which is the number of clock hours of instruction which they have not received but for which they have paid, and the denominator of which is the total number of clock hours of instruction for which they have paid. If they obtain books or equipment, as specified in the enrollment agreement as a separate charge, and return them in good condition within 30 days following the date of their withdrawal, the school shall refund the charge for the books or equipment paid by them. If they fail to return books or equipment in good condition within the 30-day period, the school may offset against the refund the documented cost for books or equipment exceeding the prorated refund amount. For a list of these costs, see the list on the front of the enrollment agreement.

IF THE AMOUNT THAT THEY OWED IS MORE THAN THE AMOUNT THAT THEY HAVE ALREADY PAID, THEN THEY WILL HAVE TO MAKE ARRANGEMENTS TO PAY IT.

Any controversy or claim arising out of or relating to AMSC and students Agreement, or breach thereof, not addressed by California Law or Regulation, shall be settled by arbitration in accordance with the Commercial Rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having Jurisdiction, except for non-payment of tuition and fees which shall be Settled through a small claims court action.

## SAMPLE REFUND CALCULATION

Assume that a student, upon enrollment in a 400-hour course, pays \$2000.00 for tuition, \$75.00 for registration and \$150.00 (documented cost to school) for equipment as specified in the Enrollment Agreement and withdraws after completing 100 hours without returning the equipment he/she obtained. The pro rata refund to the student would be \$1,500 based on the calculation stated below.

Tuition Paid 100%	Refund 10%	Refund 25%	Refund 50%	No refund Beyond 60%
\$2,000	\$200.00	\$500.00	\$1,000	\$0.00

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## VISA PROCEDURES

AMSC is approved by the Student and Exchange Visitor Program (SEVP) authorized under Department of Homeland Security (DHS) and Department of State as a institution of higher learning for non-immigrant M-1 visa students. Students attending another institution in the United States on an M-1 visa may enroll in AMSC by completing the admissions process filing a Form I-539. It is also possible for prospective students in the United States on some other type of visa to apply to the Immigration and Naturalization Service for change to an M-1 visa. Most classes of nonimmigrants can begin studying while their application is pending. The exceptions are currently in B-1, B-2, or F-2 status. These nonimmigrants cannot begin a program of study prior to approval of their change of status. Before international students may be considered for admission, they must:

- Complete the application form; enclose a \$75.00 processing fee.
- Provide evidence of completion of high school or equivalent diploma.
- Take the admissions entrance SLE test with a score of least 29

Applicants not currently in the U.S. may demonstrate proficiency reading, writing, and speaking English in several ways and should include the documentation with their application.

- a TOFEL score of at least 450 or
- High school or college transcripts documenting English language skills or
- Completion of an appropriate English as a Second Language (ESL) course or
- Other equivalent verification of communication skills.

### I-20 CERTIFICATION

After the application process has been completed and all relevant materials have been submitted, the file is reviewed by the admissions committee. If the student fully meets the criteria for admission and has adequate funds to meet the expenses of the program of study, the school obtains specific biographical and financial information about the student which will be necessary to issue a Form I-20, "Certificate of Eligibility for Nonimmigrant Student." Applicants will be notified in a timely manner and will be mailed a Certificate of Eligibility (I-20) along with further information regarding registration and helpful visa information.

### APPLYING FOR A STUDENT M-1 VISA

Prospective nonimmigrant students who are not in the U.S. must apply to the local U.S. consulate for an M-1 visa. This requires a visa interview. The student must bring several items to the interview. The consular officer will need to verify the student's I-20 record electronically in order to process the student visa application. The potential student must pay a SEVIS I-901 fee to the Department of Homeland Security prior to applying for a visa and may prove payment of the fee through the internet at <http://www.fmjfee.com> with a credit card and printed receipt as a evidence that the fee has been paid. For this case you need the information from your I-20 form to fill out the Form I-901. All applicants should be prepared to provide:

- Form I-20, signed by the Designated School Official (DSO);
- Receipt as a evidence that the fee for Form I-901 has been paid;
- Diploma of completion of high school or the equivalent;
- Scores from standardized SLE test and documentation of English language skills;
- Program Outline with starting and ending date
- Financial evidence that shows the student or parents who are sponsoring have sufficient funds;
- Completed Form(s) for the Application for Nonimmigrant Visa;
- Valid Passport for travel and admission to the United States with a validity date at least six months beyond the applicant's intended period of stay in the United States;

## PROGRAMS OF STUDY

### DIAGNOSTIC MEDICAL SONOGRAPHY (DIPLOMA AND AA;DEGREE PROGRAM)

Diagnostic Medical Sonography program prepares individuals, under the supervision of physicians, to utilize medical ultrasound techniques to gather sonographic data used to diagnose a variety of conditions and diseases. Includes instruction in obtaining, reviewing, and integrating patient histories and data; patient instruction and care; anatomic, physiologic and pathologic data recording. The core curriculum is structured to include an on-campus lecture component, an on-campus imaging laboratory component, and an off-campus integrated clinical component. Sonographers typically work in health care facilities for a variety of departments and, license is not required. However, most employers prefer credentialing or registration with organizations such as the American Registry for Diagnostic Medical Sonography (ARDMS), Cardiovascular Credentialing International(CCI), or the American Registry of Radiologic Technologists (ARRT). Some employers allow applicants to obtain certification after hire.

Estimated Employment and Projected Growth Diagnostic Medical Sonographers					
SOURCE: EDD/LMID PROJECTIONS OF EMPLOYMENT BY OCCUPATION					
Geographic Area (Estimated Years)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Replacements
California(2012-22)	4,700	6,700	2,000	42.6	700

### VOCATIONAL NURSING (VN) (Diploma Program)

The philosophy of American Medical Sciences Center Vocational Nursing program is derived from the mission, vision, and values of the American Medical Sciences Center and is expressed in terms of faculty beliefs regarding Man/Client, Health, Nursing, Culture, Environment, Nursing Education, and the Teaching/Learning process. Health is recognized as a state of physical, mental, and social well-being demonstrated by a spectrum of wellness to illness. The Nursing is recognized as the art and science of providing supportive, preventive, therapeutic, and restorative care for individuals in both instructional and community settings. In the Vocational Nursing program, there is an emphasis on the emotional, physical, social, and spiritual wellness and illness needs of the individual, family, and society as a whole. Graduates will meet the requirements to take the licensing exam (NCLEX-PN) and seek entry level positions in hospitals, clinics, and patient care settings.

Estimated Employment and Projected Growth Licensed Vocational Nurses					
SOURCE: EDD/LMID PROJECTIONS OF EMPLOYMENT BY OCCUPATION					
Geographic Area (Estimated Years)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Replacements
California(2012-22)	60,700	76,300	15,600	25.7	14,800

### ECHOVASCULAR TECHNOLOGY (EVT) (Diploma Program)

The Echovascular Technology program at AMSC is designed to prepare students to perform diagnostic ultrasound examinations required of peripheral Vascular (Arterial Venous), and cardiac structures. The core set of courses is structured to include an on-campus lecture component, an on-campus imaging laboratory component, and an off-campus integrated clinical component. The student will have the opportunity to study the anatomy, physiology and pathology of scanned organ systems. Echo-vascular Technicians work in health care facilities for a variety of departments and license is not required.

Estimated Employment and Projected Growth Echovascular Technicians					
SOURCE: EDD/LMID PROJECTIONS OF EMPLOYMENT BY OCCUPATION					
Geographic Area (Estimated Years)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Replacements
California(2012-22)	3,400	4,300	900	26.5	500



## DIAGNOSTIC MEDICAL SONOGRAPHY

ASSOCIATE OF APPLIED SCIENCE(AAS) D.O.T. CODE 078.364-010;CIP CODE 51-0910

Total Clock Hours (2,290.00); Total Weeks (104.00); Semester Credit Hours (101.00)

In Class Clock Hoursper week (20.00); In Class Clock Hoursper Day (4.00):

EDUCATIONAL OBJECTIVE; The objective is to provide the didactic and clinical skills needed to enable the student to perform the Abdominal, Gynecological, Vascular, and Echocardiographic requirements published or supported by nationally recognized professional organizations. AMSC graduated may apply for following certification granting organizations; American Registry of Radiologic Technologists (ARRT), American Registry for Diagnostic Medical Sonography (ARDMS), and Cardiovascular Credentialing International (CCI).The American Registry of Radiologic Technologist (ARRT) welcomes AMSC students to apply for certifications up to three months prior to graduation. Candidates should consult the ARRT website (www.ARRT.ORG) for downloadable copy of their handbook and application. For ARDMS and CCI prerequisites information please visit the ardsm.org or www.cci-online.org/websites.

PROFESSIONAL DUTIES ; Graduates will function as an integral part of the diagnostic medical imaging team, providing patient services efficiently and in a professional, sensitive manner.Duties may include ultrasound scans of abdominopelvic, superficial structural,Gynecological andEchovascularparts.

GRADUATION REQUIREMENTS; Graduates must successfully complete all courses of the program with a minimum grade of 70% and all other curriculum requirements for their course of study. The school attendance policy is a minimum of 90% attendance during the course of study, which is calculated on a monthly basis. Students must perform the clinical portion of their training in an approved medical facility and receive a satisfactory evaluation.



### SAMPLE OF GRADING SYSTEM

The school's grading system in all of its programs is as follows:

A (Excellent)	B (Good);	C (Average)	F (Not Passing)
90% - 100%	80% - 89%	70% - 79%	<70%



### CREDIT/CLOCK HOUR CONVERSIONS

For all programs of study, the conversion from clock hours to credit hours is as follows:

15 Lecture	Clock Hours	=	1 Semester Credit Hour
30 Laboratory	Clock Hours	=	1 Semester Credit Hour
45 Externship	Clock Hours	=	1 Semester Credit Hour



### EVALUATION METHODOLOGY

COMPONENT	FORMULA	AVERAGE GRADE	FINAL GRADE
Quizzes	10%	75%	7.5
Module Tests	10%	40%	8.0
Home/Outside work	10%	40%	8.0
Class Participation	10%	80%	8.0
Attendance	10%	75%	7.5
Final Exam	50%	85%	42.50
Totals	100%	N/A	81.50

## DIAGNOSTIC MEDICAL SONOGRAPHY AAS DEGREE PROGRAM OUTLINE

MOD ULES	MODULES NAME	COURSES NAME	COURSE TITLE	LECT. CLOCK HOURS	LAB. CLOCK HOURS	CLINIC CLOCK HOURS	TOTAL IN CLASS HOURS	OUTSIDE CLOCK HOURS	TOTAL CREDITS HOURS
1	GENERAL EDUCATION	Medical Terminology/ composition	DMS-1.1	48.00	00.00	00.00	48.00	24.00	3.0
		Medical Ethics, Medical Law, and Communications Skills, Patient Care	DMS-1.2	48.00	00.00	00.00	48.00	24.00	3.0
	PRE- REQUISITE COURSES	Algebra, Basic Mathematics, General Physics	DMS-1.3	48.00	00.00	00.00	48.00	24.00	3.0
		General Anatomy, Physiology and Pathology	DMS-1.4	90.00	0.0	00.00	90.00	45.00	6.0
2	ABDOMINAL ULTRASOUND	Ultrasound Physics-I	DMS-2.1	56.00	0.0	00.00	56.00	28.00	3.5
		Abdominal Vasculature Peritoneal Cavity	DMS-2.2	48.00	48.00	00.00	96.00	36.00	4.5
		Liver	DMS-2.3	48.00	48.00	00.00	96.00	36.00	4.5
		Ultrasound Physics-II	DMS-2.4	48.00	00.00	00.00	48.00	24.00	3.0
		Gallbladder, Biliary Tree	DMS-2.5	40.00	40.00	00.00	80.00	30.00	3.5
		Pancreas	DMS-2.6	40.00	40.00	00.00	40.00	30.00	3.5
		Spleen	DMS-2.7	32.00	32.00	00.00	64.00	24.00	3.0
3	UROGENITAL ULTRASOUND	Ultrasound Physics-III	DMS-3.1	56.00	00.00	00.00	56.00	28.00	3.5
		Urinary Tract	DMS-3.2	48.00	48.00	00.00	96.00	36.00	4.5
		Male Genital and Superficial Structure	DMS-3.3	36.00	36.00	00.00	72.00	28.00	3.5
4	OBSTETRICAL AND GYNECOLOGI CAL ULTRASOUND	Ultrasound Physics-IV	DMS-4.1	56.00	00.00	00.00	56.00	28.00	3.5
		Gynecology	DMS-4.2	48.00	48.00	00.00	96.00	36.00	4.5
		Obstetrics	DMS-4.3	48.00	48.00	00.00	96.00	36.00	4.5
		Breast	DMS-4.4	48.00	48.00	00.00	96.00	36.00	4.5
5	VASCULAR TECHNOLOGY	Ultrasound Physics-V	DMS-5.1	48.00	00.00	00.00	48.00	24.00	3.0
		Cerebral and Upper extremity Vessels	DMS-5.2	32.00	48.00	00.00	80.00	28.00	3.5
		Abdominal Vessels	DMS-5.3	16.00	24.00	00.00	40.00	14.00	1.5
		Lower Extremity Vessels	DMS-5.4	32.00	48.00	00.00	80.00	28.00	3.5
6	CARDIAC ULTRASOUND	Cardiac Fundamentals, Principles of Cardiac Pharmacology	DMS-6.1	24.00	36.00	00.00	60.00	21.00	2.5
		Pathological Mechanism and Non-Invasive Diagnostic Tests	DMS-6.2	24.00	36.00	00.00	60.00	21.00	2.5
		Hemodynamics and Practical Application	DMS-6.3	24.00	36.00	00.00	60.00	21.00	2.5
		Disease State Identification	DMS-6.4	24.00	36.00	00.00	60.00	21.00	2.5
7	CLINICAL EXTERNSHIP	Externships	DMS-7.1	0.00	0.00	480.0	00.00	00.00	10.5
TOTAL				1110.00	700.00	480.00	2290.00	731.00	101.00

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# **DIAGNOSTIC MEDICAL SONOGRAPHY**

## **(PROGRAM AGENDA)**

### **MODULE 1 GENERAL EDUCATION PRE-REQUISITE COURSES**

General Education pre-requisite courses within a Diagnostic Medical Sonography diploma program is intended to create a well-rounded individual with good general knowledge of several areas outside the specific major field of the graduate. At American Medical Sciences Center, the general education component is made up of the following courses:

DMS-1.1 MEDICAL TERMINOLOGY/ COMPOSITION

DMS-1.2 MEDICAL ETHICS, MEDICAL LAW AND COMMUNICATIONS SKILLS, PATIENT CARE

DMS-1.3 ALGEBRA, BASIC MATHEMATICS, PHYSICS

DMS-1.4 GENERAL ANATOMY, PHYSIOLOGY, PATHOLOGY

### **MODULE 2 ABDOMINAL ULTRASOUND**

In this module, students will gain an understanding of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the organs of the abdominal-pelvic cavity. At American Medical Sciences Center, the General Ultrasound component is made up of the following courses:

DMS-2.1 ULTRASOUND PHYSICS-I

DMS-2.2 ABDOMINAL VASCULATURE PERITONEAL CAVITY

DMS-2.3 LIVER

DMS-2.4 ULTRASOUND PHYSICS-II

DMS-2.5 GALLBLADDER, BILIARY TREE

DMS-2.6 PANCREAS

DMS-2.7 SPLEEN

### **MODULE 3 UROGENITAL ULTRASOUND**

This module will provide the student with a theoretical and practical knowledge of the genital and superficial organs including anatomy, normal anatomic variants, physiology and pathologic conditions of the Reproductive organs (Scrotum, Prostate) and anatomy, physiology and pathological conditions of the superficial structures. Also, module focuses on the development of the student's ability to scan accurately the Thyroid and Parathyroid glands. Classroom instruction will be coordinated with laboratory activities.

DMS-3.1 ULTRASOUND PHYSICS-III

DMS-3.2 UROGENITAL TRACT

DMS-3.3 MALE GENITAL AND SUPERFICIAL STRUCTURE

### **MODULE 4 OBSTETRICAL AND GYNECOLOGICAL ULTRASOUND**

In this module, students will gain an understanding of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the organs of the abdominal-pelvic cavity. In this module, students will gain an understanding of the normal breast structures includes clinical indications, pathological conditions of the organs imaging techniques and report writing. At American Medical Sciences Center, the Obstetrical and Gynecological Ultrasound component is made up of:

DMS-4.1 ULTRASOUND PHYSICS-IV

DMS-4.2 GYNECOLOGY

DMS-4.3 OBSTETRICS

DMS-4.4 BREAST

### **MODULE 5 VASCULAR TECHNOLOGY**

This module is designed for students to gain knowledge in ultrasound imaging of the upper and lower extremity. It includes a brief anatomical review of the systemic arteries and systemic veins. The students will be able to identify of extra and intra cranial Cerebra-Vascular systems. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. Classroom instruction will be coordinated with practical activities.

DMS-5.1 ULTRASOUND PHYSICS-V

DMS-5.2 CEREBRAL AND UPPER EXTREMITY VESSELS

DMS-5.3 ABDOMINAL VESSELS

DMS-5.4 LOWER EXTREMITY VESSELS

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## MODULE 6 CARDIAC ULTRASOUND

The purpose of this module is to explore in detail the construction and dynamics of the cardiovascular system. Topics include anatomical and physiological considerations, cardiac pumping action and its regulation, basic hemodynamics, and systemic and pulmonary circulation. Classroom instruction will be coordinated with certain lab activities. This module will prepare the student to recognize the pathological processes of the cardiovascular system.

DMS-6.1CARDIAC FUNDAMENTALS, PRINCIPLES OF CARDIAC PHARMACOLOGY

DMS-6.2PATHOLOGICAL MECHANISM AND NON-INVASIVE DIAGNOSTIC TESTS

DMS-6.3HEMODYNAMICS AND PRACTICAL APPLICATIONS

DMS-6.4DISEASE STATE IDENTIFICATION

## MODULE 7 CLINICAL

Students participate in a clinical externship where they will gain hands-on training. The clinical part of program provides students with actual hands-on experience in diagnostic care to patients of all ages and stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center.

DMS-7.1EXTERNSHIPS

# PROGRAM PERFORMANCE FACT SHEET

## Diagnostic Medical Sonography AAS degree program

### Completion Rates

Calendar Year	Number of students who began Program	Students available for graduation	Graduates	Completion Rate
2013	0	0	0	0
2014	0	0	0	0

### Students Completing After Published Program Length - 150% Completion Rate

Calendar Year	Number of students who began Program	Students available for graduation	150 % Graduates	150 % Completion Rate
2013	0	0	0	0
2014	0	0	20	0

### Placement Rates

Calendar Year	Number of students who began program	Number of graduates	Graduates available for employment	Graduates employed in the field	Placement Rate % employed in the field	Graduates employed in the field an average of less than 32 hours per week	Graduates employed in the field at least 32 hours per week
2013	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0

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## PROGRAM DESCRIPTIONS

**COURSE NAME:**MEDICAL  
TERMINOLOGY/COMPOSITION

**COURSE TITLE:** DMS-1.1  
**PREREQUISITE:** NONE  
**LECTURE HOURS:** 48.00  
**LABORATORY HOURS:** 00.00  
**TOTAL IN CLASS HOURS:** 48.00  
**OUTSIDE CLOCK HOURS:** 24.00  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Structure of medical words (roots, prefixes, suffixes)
- ☒ Medical abbreviations, signs, symbols
- ☒ Sonography specific terminology
- ☒ Reading, writing, spelling and pronunciation
- ☒ Medical charters, graphical presentation
- ☒ Medical Terms in relation to anatomy, physiology  
Pathology

This course is designed to provide a comprehensive foundation of basic medical terminology for use in health care careers; Includes Greek and Latin word roots, prefixes, suffixes, combining forms, special endings, plural forms, abbreviations and symbols. Terminology emphasis on body structures, anatomical systems, pathologies, medical procedures, medical specialties, and common terms and abbreviations used in health care. The course introduces concepts and application or reading, writing and interpreting common medical formats.

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**COURSE NAME:**MEDICAL ETHICS, MEDICAL LAW  
AND COMMUNICATIONS SKILLS, PATIENT CARE

**COURSE TITLE:** DMS-1.2  
**PREREQUISITE:** NONE  
**LECTURE HOURS:** 48.00  
**LABORATORY HOURS:** 00.00  
**TOTAL IN CLASS HOURS:** 48.00  
**OUTSIDE CLOCK HOURS:** 24.00  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Ethical decision-making
- ☒ Legal principles
- ☒ Patient bill of right
- ☒ Patient communications
- ☒ Staff communications, telecommunications
- ☒ Writing technical reports
- ☒ Legal issues of patient confidentiality

This course familiarizes the students with an understanding of the specific laws and regulations that impact the healthcare environment and fundamental medical ethics. This course is designed to develop the student's ability to communicate effectively. Emphasis is placed upon the basic elements of workplace effectiveness (Sufficient to perform in a traditional medical work environment including patient interviews, chart evaluations, diagnostic testing protocols).

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**COURSE NAME:**ALGEBRA,  
BASIC MATHEMATICS, GENERAL PHYSICS

**COURSE TITLE:** DMS-1.3  
**PREREQUISITE:** NONE  
**LECTURE HOURS:** 48.00  
**LABORATORY HOURS:** 00.00  
**TOTAL IN CLASS HOURS:** 48.00  
**OUTSIDE CLOCK HOURS:** 24.00  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Basic Algebra
- ☒ Measurements, calculations, metric conversions
- ☒ Linear equation and inequalities
- ☒ Principles of motion work and heat
- ☒ Principles of acoustic and light waves
- ☒ Principles of Ultrasound Physics
- ☒ Sound production and propagation
- ☒ Transducer architecture and selection
- ☒ Bio-effects, Artifacts, and safety

This course is designed to provide students with an understanding of the general principles and theories underlying algebra, mathematics and fundamental physics. This course builds on the principles of linear equations, graphing, functions, rational expressions, radicals and systems of equations. Emphasis is placed on critical thinking and problem-solving skills. This course is designed to provide students with an understanding of the general principles and theories underlying Ultrasound Physics.

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PROGRAM DESCRIPTIONS (CONT.)

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**COURSE NAME:**GENERAL ANATOMY,  
PHYSIOLOGY, PATHOLOGY

**COURSE TITLE** DMS-1.4

**PREREQUISITE** NONE

**LECTURE HOURS:** 90.00

**LABORATORY HOURS:** 00.00

**TOTAL IN CLASS HOURS:** 90.00

**OUTSIDE CLOCK HOURS:** 45.00

**TOTAL CREDITS HOURS:** 6.0

**SUBJECTS:**

- ☒ Cardiopulmonary/cardiovascular systems
- ☒ Central Nervous system
- ☒ Gastrointestinal system
- ☒ Musculoskeletal system
- ☒ Reproductive systems
- ☒ Urinary system
- ☒ Endocrine system
- ☒ Hematopoietic system
- ☒ Immune system

The students will be introduced to the fundamentals of chemistry and human anatomy, physiology, and pathophysiology. The course includes the ability to recognize and identify all major body systems and understanding the primary physiological reactions of the human body.

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**COURSE NAME:**ULTRASOUND PHYSICS-I

**COURSE TITLE:** DMS-2.1

**PREREQUISITE:** DMS-1.4

**LECTURE HOURS:** 56.00

**LABORATORY HOURS:** 00.00

**TOTAL CLOCK HOURS:** 56.00

**OUTSIDE CLOCK HOURS:** 28.00

**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ Continuous Wave
- ☒ Pulse Wave
- ☒ Sound Attenuation
- ☒ Sound Intensity
- ☒ Impedances and Angles

This course will provide the student with theoretical understanding of the principles of ultrasound physics as it applies to diagnostic medical imaging. The course material will focus on physical principles of sound energy, sound production, transmission and reflection. This course provides an introduction to and an overview of the principles of ultrasound physics as it applies to diagnostic medical imaging. Emphasis will be placed on physical principles of sound waves, and its categorization.

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**COURSE NAME:**ABDOMINAL VASCULATURE,  
PERITONEAL CAVITY

**COURSE TITLE:** DMS-2.2

**PREREQUISITE:** DMS-1.4

**LECTURE HOURS:** 48.00

**LABORATORY HOURS:** 48.00

**TOTAL CLOCK HOURS:** 96.00

**OUTSIDE CLOCK HOURS:** 36.00

**TOTAL CREDITS HOURS:** 4.5

**SUBJECTS:**

- ☒ Abdominal Cavities
- ☒ Abdominal Vascular System
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal vascular system. It includes a brief anatomical review of the systemic arteries, systemic veins, and portal veins.

The course provides students with an understanding of the peritoneal cavity and potential spaces the pelvic-pelvic cavity where fluid collections and pathologies may be located. Also, this course will give the student a comprehensive understanding of the pathological processes that may affect the abdominal vascular organs. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. Classroom instruction will be coordinated with practical activities.

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PROGRAM DESCRIPTIONS (CONT.)

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<b>COURSENAME:</b>	LIVER	<b>SUBJECTS:</b>
<b>COURSE TITLE</b>	DMS-2.3	☒ Gastrointestinal Organs
<b>PREREQUISITE:</b>	DMS-2.2	☒ Anatomy of the Liver
<b>LECTURE HOURS:</b>	48.00	☒ Physiology and Pathophysiology
<b>LABORATORY HOURS:</b>	48.00	☒ Vascular system of the Liver
<b>TOTAL CLOCK HOURS:</b>	96.00	☒ Cross-Sectional Anatomy
<b>OUTSIDE CLOCK HOURS:</b>	36.00	☒ Clinical Indications
<b>TOTAL CREDITS HOURS:</b>	4.5	☒ Normal Conditions and Abnormal Conditions
		☒ Abnormal Conditions Imaging Techniques
		☒ Imaging Techniques Report Writing
		☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal gastrointestinal organs. It includes a comprehensive anatomical review of the Liver, cross-sectional anatomy of these structures and their appearance on the sonogram. Classroom instruction will be coordinated with practical activities. This course will give the student a complete understanding of the pathological processes that may affect the Liver.

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<b>COURSE NAME:</b>	ULTRASOUND PHYSICS-II	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-2.4	☒ Transducers Architectures,
<b>PREREQUISITE:</b>	DMS-2.1	☒ Matching Layer
<b>LECTURE HOURS:</b>	48.00	☒ Piezoeffects
<b>LABORATORY HOURS:</b>	00.00	☒ Damping Materials
<b>TOTAL CLOCK HOURS:</b>	48.00	☒ Beam formers (Near, far zones)
<b>OUTSIDE CLOCK HOURS:</b>	24.00	☒ Type of transducers
<b>TOTAL CREDITS HOURS:</b>	3.0	☒ Set up ultrasound system
		☒ Problems and Solution

The course material will focus on physical principles of sound energy, transducers architecture, sound production and beam structural design. This module teaches the student the developmental concept of sonographic appearance; architectures of the modern technology scan heads and potential artifacts. This course provides an introduction to and an overview of the principles of ultrasound transducers as it applies to diagnostic medical imaging. Emphasis will be placed on physical principles construction, beam former, and transducers application.

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<b>COURSES NAME:</b>	GALLBLADDER AND BILIARY TREE	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-2.5	☒ Anatomy of the Gallbladder, Biliary Tree
<b>PREREQUISITE:</b>	DMS-2.3	☒ Physiology and Pathophysiology
<b>LECTURE HOURS:</b>	40.00	☒ Cross-Sectional Anatomy
<b>LABORATORY HOURS:</b>	40.00	☒ Clinical Indications
<b>TOTAL CLOCK HOURS:</b>	80.00	☒ Normal and Abnormal Conditions
<b>OUTSIDE CLOCK HOURS:</b>	30.00	☒ Imaging Techniques
<b>TOTAL CREDITS HOURS:</b>	3.5	☒ Report Writing

This course introduces the normal anatomy, anatomic variants, physiology and pathologic conditions and ultrasound evaluation of the Gallbladder. This course will give the student a complete understanding of the pathological processes that may affect the Gallbladder. Cross-sectional anatomy of this structure and their appearance on the sonogram will also be discussed. Instruction will be coordinated with practical activities.

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PROGRAM DESCRIPTIONS (CONT.)

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**COURSE NAME:**PANCREAS

**COURSE TITLE:** DMS-2.6  
**PREREQUISITE:** DMS-2.5  
**LECTURE HOURS:** 40.00  
**LABORATORY HOURS:** 40.00  
**TOTAL CLOCK HOURS:** 80.00  
**OUTSIDE CLOCK HOURS:** 30.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

☒Anatomy of the Pancreas  
☒Physiology and Pathophysiology  
☒Cross-Sectional Anatomy  
☒Clinical Indications  
☒Normal and Abnormal Conditions  
☒Imaging Techniques  
☒Report Writing

This course will prepare students to acquire the knowledge the location, anatomy, physiology and pathology of the Pancreas. This course studies basic structures viewed in sectional anatomy. This course will give the student a comprehensive understanding of the pathological processes that may affect these organs. This module also provides development of skills in scanning technique. This course will prepare the student to recognize the pathological processes of the endocrinesystem.

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**COURSE NAME:** SPLEEN

**COURSE TITLE:** DMS-2.7  
**PREREQUISITE:** DMS-2.6  
**LECTURE HOURS:** 32.00  
**LABORATORY HOURS:** 32.00  
**TOTAL CLOCK HOURS:** 64.00  
**OUTSIDE CLOCK HOURS:** 24.00  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

☒Anatomy of the Spleen  
☒Physiology and Pathophysiology  
☒Cross-Sectional Anatomy  
☒Clinical Indications  
☒Normal and Abnormal Conditions  
☒Imaging Techniques  
☒Report Writing

This course will prepare students to acquire the knowledge the location, anatomy, physiology and pathology of the Spleen. This course studies basic structures viewed in sectional anatomy. This course will give the student a comprehensive understanding of the pathological processes that may affect these organs. This module also provides development of skills in scanning technique. This course will prepare the student to recognize the pathological processes of the hematopoietic system. This course will give the student a complete understanding of the pathological processes that may affect the Spleen.

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**COURSE NAME:**ULTRASOUND PHYSICS-III

**COURSE TITLE:** DMS-3.1  
**PREREQUISITE:** DMS-2.4  
**LECTURE HOURS:** 56.00  
**LABORATORY HOURS:** 0000  
**TOTAL CLOCK HOURS:** 56.00  
**OUTSIDE CLOCK HOURS:** 28.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

☒Doppler Effect  
☒Doppler Equations and Hemodynamics  
☒Circulatory System  
☒Critical Stenosis  
☒Energy, Pressure, Flow resistance  
☒Spectral Instruments

In this course, the students learn the fundamentals of the Doppler physics. This course teaches the student the developmental concept of Sonographic appearance including spectral and color Doppler instruments. Classroom instruction will be coordinated with certain instrumental activities include appropriate adjustment to M-mode, color flow and spectral trace.This course provides an introduction to and an overview of the principles of Doppler shift as it applies to diagnostic medical imaging. Emphasis will be placed on physical principles of artifacts, and its categorization.

PROGRAM DESCRIPTIONS (CONT.)

**COURSE NAME:**URINARY TRACT

**COURSE TITLE:** DMS-3.2  
**PREREQUISITE:** DMS-2.7  
**LECTURE HOURS:** 48.00  
**LABORATORY HOURS:** 48.00  
**TOTAL CLOCK HOURS:** 96.00  
**OUTSIDE CLOCK HOURS:** 36.00  
**TOTAL CREDITS HOURS:** 4.5

**SUBJECTS:**

- ☒ Organ's Anatomy
- ☒ Physiology and Pathophysiology
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course will provide the student with a theoretical and practical knowledge of the urinary tract, including anatomy, normal anatomic variants, physiology and pathologic conditions of the Kidney(s), Adrenal Glands, and Urinary Bladder. This course includes discussion of the various exam protocols of ultrasound evaluation of the urinary organs. Classroom instruction will be coordinated with practical activities.

**COURSE NAME:**MALE GENITAL AND SUPERFICIAL STRUCTURE

**COURSE TITLE:** DMS-3.3  
**PREREQUISITE:** DMS-3.2  
**LECTURE HOURS:** 36.00  
**LABORATORY HOURS:** 36.00  
**TOTAL CLOCK HOURS:** 72.00  
**OUTSIDE CLOCK HOURS:** 28.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ Organ's Anatomy
- ☒ Physiology and Pathophysiology
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course teaches normal anatomy, anatomic variants, normal physiology and pathological conditions of the superficial structures. The course focuses on the development of the student's ability to scan accurately the Thyroid and Parathyroid glands. Classroom instruction will be coordinated with laboratory activities. This course will provide the student with a theoretical and practical knowledge of the genital and superficial organs including anatomy, normal anatomic variants, physiology and pathologic conditions of the Reproductive organs (Scrotum, Prostate).

**COURSE NAME:**ULTRASOUND PHYSICS-IV

**COURSE TITLE:** DMS-4.1  
**PREREQUISITE:** DMS-3.1  
**LECTURE HOURS:** 56.00  
**LABORATORY HOURS:** 0000  
**TOTAL CLOCK HOURS:** 56.00  
**OUTSIDE CLOCK HOURS:** 28.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ System's Construction
- ☒ System's Vital Components
- ☒ Receiver Functions
- ☒ Pre and Post Processing
- ☒ Image Storage and Monitors
- ☒ Display Modes

This course familiarizes the students with an understanding of fundamental instrumentations, including but not limited to receiver functions, pre and post processing and imaging modes. This course is designed to develop the student's ability to knobology, including physical principles of the Overall gain, Time gain Compensation, depth, Focusing and 2-D gray scale controls. This course will provide the student with a theoretical and concrete knowledge of all components of ultrasound machine.

PROGRAM DESCRIPTIONS (CONT.)

<b>COURSE NAME:</b>	GYNECOLOGY	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-4.2	☒ Anatomy of the Female Pelvis
<b>PREREQUISITE:</b>	DMS-3.3	☒ Physiology and Pathology of the Female Pelvis
<b>LECTURE HOURS:</b>	48.00	☒ Cross-Sectional Anatomy,
<b>LABORATORY HOURS:</b>	48.00	☒ Clinical Indications
<b>TOTAL CLOCK HOURS:</b>	96.00	☒ Normal and Abnormal Conditions
<b>OUTSIDE CLOCK HOURS:</b>	36.00	☒ Imaging Techniques, Doppler Flow Pattern
<b>TOTAL CREDITS HOURS:</b>	4.5	☒ Report Writing

The course teaches and demonstrates knowledge of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the female pelvis. This course will prepare the students to perform sonograms of the female pelvis. It includes a comprehensive anatomical review of the female reproductive organs. This course is designed to provide students with an understanding of the potential complicating conditions of the gravid female pelvis to include uterine and ovarian location, size and vascular changes. Classroom instruction will be coordinated with practical activities.

<b>COURSE NAME</b>	OBSTETRICS	<b>SUBJECTS:</b>
<b>COURSE TITLE</b>	DMS-4.3	☒ Normal Trimesters, Placenta, Amniotic Fluid,
<b>PREREQUISITE:</b>	DMS-4.2	☒ Fetal Anatomy
<b>LECTURE HOURS:</b>	48.00	☒ Fetal Circulation
<b>LABORATORY HOURS:</b>	48.00	☒ Clinical Indications (Gestational Age, Well Being)
<b>TOTAL CLOCK HOURS:</b>	96.00	☒ Complications-Maternal and fetal
<b>OUTSIDE CLOCK HOURS:</b>	36.00	☒ Fetal Abnormalities
<b>TOTAL CREDITS HOURS:</b>	4.5	☒ Imaging Techniques, Doppler Flow Pattern
		☒ Report Writing

The course teaches and demonstrates knowledge of the normal trimesters, anatomic variants including but not limited to Placenta, Amniotic Fluid, and Fetal Circulation. It includes a comprehensive anatomical review of the clinical indications. This course will give the student a complete understanding of the pathological processes. Vascular Changes, associated cysts of early pregnancy, fluid collections and their appearance on the sonogram will also be discussed. The students learn to identify the various physiological indications of the well-being or distress during appropriate stages of pregnancy to include cardiovascular gastrointestinal, skeletal, genital, urinary, and other biophysical profiles.

<b>COURSE NAME:</b>	BREAST	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-4.4	☒ Structures and Cross-Sectional Anatomy
<b>PREREQUISITE:</b>	DMS-4.3	☒ Clinical Indications
<b>LECTURE HOURS:</b>	48.00	☒ Normal and Abnormal Conditions
<b>LABORATORY HOURS:</b>	48.00	☒ Imaging Techniques,
<b>TOTAL CLOCK HOURS:</b>	96.00	☒ Doppler Flow Pattern
<b>OUTSIDE CLOCK HOURS:</b>	36.00	☒ Report Writing
<b>TOTAL CREDITS HOURS:</b>	4.5	

This course will introduce the student to ultrasound imaging of the normal, abnormal anatomy and physiological indications of the Breast. Course teaches and demonstrates knowledge of the normal structures and cross-sectional anatomy and their appearance on the display. The students learn to identify the various physiological indications during appropriate stages of pregnancy. Classroom instruction will be coordinated with laboratory activities.

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PROGRAM DESCRIPTIONS (CONT.)

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**COURSE NAME:ULTRASOUND PHYSICS-V**

**COURSE TITLE:** DMS-5.1  
**PREREQUISITE:** DMS-4.1  
**LECTURE HOURS:** 48.00  
**LABORATORY HOURS:** 00.00  
**TOTAL CLOCK HOURS:** 48.00  
**OUTSIDE CLOCK HOURS:** 24.00  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Physical Principles of the Vascular System
- ☒ Plethysmographies
- ☒ Ohm's Law
- ☒ Doppler Flow Pattern
- ☒ Artifacts
- ☒ Performance and Safety
- ☒ Statistical profile

This course will prepare the student to recognize the specific vascular physical principles, Plethysmography, Ohm's Law, methods of measuring electrical resistance, and advanced of the Hemodynamics. This course will provide the student with a theoretical and practical knowledge of the Artifacts, Performance and Safety. Specific topics to be covered include diagnostic statistical profile.

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**COURSES NAME:CEREBRAL AND UPPER EXTREMITY VESSELS**

**COURSE TITLE:** DMS-5.2  
**PREREQUISITE:** DMS-4.4  
**LECTURE HOURS:** 32.00  
**LABORATORY HOURS:** 48.00  
**TOTAL CLOCK HOURS:** 80.00  
**OUTSIDE CLOCK HOURS:** 28.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ StructuralAnatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques,
- ☒ Doppler Flow Pattern
- ☒ Report Writing

This course familiarizes the students with an understanding of the Transcranial Cerebrovascular Systems. This course will prepare the student to recognize the pathological processes of the cerebrovascular vascular system. Emphasis is placed on the ability to recognize and identify Cervical/Neck scanning techniques. The student learns to identify and perform extra cranial carotid and vertebral artery exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Emphasis is placed on the ability to recognize and identify upper extremities vascular systems. It includes a brief anatomical review of the systemic arteries and systemic veins.

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**COURSE NAME:ABDOMINAL VESSELS**

**COURSE TITLE** DMS-5.3  
**PREREQUISITE:** DMS-5.2  
**LECTURE HOURS:** 16.00  
**LABORATORY HOURS:** 24.00  
**TOTAL CLOCK HOURS:** 40.00  
**OUTSIDE CLOCK HOURS:** 14.00  
**TOTAL CREDITS HOURS:** 1.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal vascular system. It includes a brief anatomical review of the arteries, veins, and portal system. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will prepare the student to recognize the pathological processes. Students learn to performduplex scanning of native arteries and veins of the abdominal vessels. Emphasis will be placed on visceral vessels using PW, CW, Color Doppler instruments with spectral analysis.

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PROGRAM DESCRIPTIONS (CONT.)

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**COURSE NAME:** LOWER EXTREMITYVESSELS

**COURSE TITLE:** DMS-5.4  
**PREREQUISITE:** DMS-5.3  
**LECTURE HOURS:** 32.00  
**LABORATORY HOURS:** 48.00  
**TOTAL CLOCK HOURS:** 80.00  
**OUTSIDE CLOCK HOURS:** 28.00  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques,
- ☒ Doppler Flow Pattern
- ☒ Report Writing

This course is designed for students to gain knowledge in ultrasound imaging of the lower extremity. It includes a brief anatomical review of the systemic arteries and systemic veins. Students learn to perform Segmental Pressure, Plethysmography, Duplex scanning of native arteries and veins of the lower extremities, including but not limited to false aneurysm and arteriovenous fistula identification. This course will prepare the student to recognize the pathological processes of the lower vascular system.

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**COURSE NAME:**CARDIAC FUNDAMENTALS,  
PRINCIPLES OF CARDIAC PHARMACOLOGY

**COURSE TITLE:** DMS-6.1  
**PREREQUISITE:** DMS-5.4  
**LECTURE HOURS:** 24.00  
**LABORATORY HOURS:** 36.00  
**TOTAL CLOCK HOURS:** 60.00  
**OUTSIDE CLOCK HOURS:** 21.00  
**TOTAL CREDITS HOURS:** 2.5

**SUBJECTS:**

- ☒ Medical Terminology
- ☒ Cardiac Anatomy and Physiology
- ☒ Electro cardiology
- ☒ Principles of Cardiac pharmacology
- ☒ ADME of Cardiac Specific Drugs
- ☒ Drugs used for Cardiac Emergency
- ☒ Imaging Techniques,

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. Topics include cardiac medical terminology and the metric conversions required in cardiac therapy, as well as cardiopulmonary anatomical and physiological considerations, cardiac pumping action and electrocardiography. Student learns its systemic and pulmonary circulations, basic principles of cardiac pharmacology and specific drugs. Classroom instruction will be coordinated with certain laboratory activities.

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**COURSE NAME:**PATHOLOGICAL MECHANISM  
AND NON-INVASIVE DIAGNOSTIC TESTS

**COURSE TITLE:** DMS-6.2  
**PREREQUISITE:** DMS-6.1  
**LECTURE HOURS:** 24.00  
**LABORATORY HOURS:** 36.00  
**TOTAL CLOCK HOURS:** 60.00  
**OUTSIDE CLOCK HOURS:** 21.00  
**TOTAL CREDITS HOURS:** 2.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Sonographic Cross-Sectional Anatomy
- ☒ Pathology/Pathophysiology
- ☒ Clinical Indications and Therapeutic Measures
- ☒ Abnormal Conditions and Congenital Diseases
- ☒ Imaging Techniques,
- ☒ Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation

The course teaches and demonstrates knowledge of the cardiac structural anatomy. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will prepare the student to recognize the pathological processes and therapeutic measures. The student learns to identify and perform exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. The class teaches the student the basic concept of Sonographic appearance, patient position during Sonographic examinations, and interpretation of Sonographic characteristics.

PROGRAM DESCRIPTIONS (CONT.)

**COURSE NAME:**HEMODYNAMICS AND PRACTICAL APPLICATION

**COURSE TITLE:** DMS-6.3  
**PREREQUISITE:** DMS-6.2  
**LECTURE HOURS:** 24.00  
**LABORATORY HOURS:** 36.00  
**TOTAL CLOCK HOURS:** 60.00  
**OUTSIDE CLOCK HOURS:** 21.00  
**TOTAL CREDITS HOURS:** 2.5

**SUBJECTS:**

- ☒ Principles of Flow
- ☒ Measurements and normal values
- ☒ Physical Considerations
- ☒ M-mode and 2-D Echocardiography
- ☒ Assessment Techniques(Objective, Subjective)
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation
- ☒ Report Writing

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. The student learns to identify and perform Cardiac Atrial and Ventricular Hemodynamics using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Students learn to perform M-mode, and 2-Dimensional Echocardiography.

**COURSE NAME:**DISEASE STATE IDENTIFICATION

**COURSE TITLE:** DMS-6.4  
**PREREQUISITE:** DMS-6.3  
**LECTURE HOURS:** 24.00  
**LABORATORY HOURS:** 36.00  
**TOTAL CLOCK HOURS:** 60.00  
**OUTSIDE CLOCK HOURS:** 21.00  
**TOTAL CREDITS HOURS:** 2.5

**SUBJECTS:**

- ☒ Ischemic Heart and Coronary Artery Diseases
- ☒ Diseases of the Myocardium
- ☒ Acquired Valvular Disease
- ☒ Thrombi and Aneurysms
- ☒ Congenital Heart Disease
- ☒ Prosthetics Valve

This course will prepare the student to recognize the pathological processes of the cardiovascular system. The following topics will be discussed: Ischemic Heart and Coronary Artery, Myocardial and Pericardial, Valvular and other Heart Diseases. A thorough understanding of normal cardiovascular anatomy and physiology is mandatory in order to comprehend these advanced topics.

**COURSE NAME** EXTERNSHIPS  
**COURSE TITLE** DMS-7.1  
**PREREQUISITE:** ALL  
**LECTURE HOURS** 00.00  
**PRACTICAL HOURS** 480.00  
**TOTAL CLOCK HOURS** 480.0  
**OUTSIDE CLOCK HOURS:** 0 0.00  
**TOTAL CREDITS HOURS** 10.5

**SUBJECTS:**

- ☒ Hands on Training
- ☒ Manual Analyses
- ☒ Automated Analyses,
- ☒ Monitoring and Control Procedures
- ☒ Evaluation and Reporting

Students participate in a clinical externship where they will gain hands on training. The clinical part of program provides students with actual hand-on experience providing diagnostic care to patient of all ages, stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center.

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## **DIAGNOSTIC MEDICAL SONOGRAPHY**

**DIPLOMA PROGRAM D.O.T. CODE 078.364-010. CIP 51-0910**  
**78.5 SEMESTER CREDIT HOURS, 1980 CLOCK HOURS, 78 WEEKS**

**EDUCATIONAL OBJECTIVE** The objective is to provide the didactic and clinical skills needed to enable the student to perform the Abdominal, Gynecological, Vascular, and Echocardiographic requirements published or supported by nationally recognized professional organizations.

**PROFESSIONAL DUTIES** Graduates will function as an integral part of the diagnostic medical imaging team, providing patient services efficiently and in a professional, sensitive manner. Duties may include performing ultrasound scans of abdominal, Gynecological, Echovascular parts.

**GRADUATION REQUIREMENTS** Graduates must successfully complete all courses of the program with a minimum grade of 70% and all other curriculum requirements for their course of study. Students must perform the clinical portion of their training in an approved medical facility and receive a satisfactory evaluation. Graduation is acknowledged by awarding a diploma, which further allows them to take the ARDMS test.

### **SAMPLE OF GRADING SYSTEM**

The school's grading system in all of its programs is as follows:

<b>A (Excellent)</b> 90% - 100%	<b>B (Good);</b> 80% - 89%	<b>C (Average)</b> 70% - 79%	<b>F (Not Passing)</b> <70%
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### **CREDIT/CLOCK HOUR CONVERSIONS**

For all programs of study, the conversion from clock hours to credit hours is as follows:

15 Lecture	Clock Hours	=	1 Semester Credit Hour
30 Laboratory	Clock Hours	=	1 Semester Credit Hour
45 Externship	Clock Hours	=	1 Semester Credit Hour

### **EVALUATION METHODOLOGY**

COMPONENT	FORMULA	AVERAGE GRADE	FINAL GRADE
Quizzes	10%	75%	7.5
Module Tests	10%	40%	8.0
Home/Outside work	10%	40%	8.0
Class Participation	10%	80%	8.0
Attendance	10%	75%	7.5
Final Exam	50%	85%	42.50
Totals	100%	N/A	81.50

## DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM OUTLINE

MOD ULES	MODULES NAME	COURSES NAME	COURSE TITLE	LECT CLOCK HOURS	LAB CLOCK HOURS	PRACT CLOCK HOURS	TOTAL CLOCK HOURS	TOTAL CREDITS HOURS
1	GENERAL EDUCATION PRE-REQUISITE COURSES	Medical Terminology and Career Development	DMS-1.1	12.0	0.0	0.0	12.0	0.5
		Medical Ethics, Medical Law, and Communications Skills	DMS-1.2	8.0	0.0	0.0	8.0	0.5
		General Anatomy, Physiology and Pathophysiology	DMS-1.3	20.0	0.0	0.0	20.0	1.0
		Basic Algebra, Mathematics and Physics	DMS-1.4	20.0	0.0	0.0	20.0	1.0
		Scanning Techniques and Basic Patient Care	DMS-1.5	16.0	4.0	0.0	20.0	1.0
2	ABDOMINAL ULTRASOUND	Ultrasound Physics-I	DMS-2.1	30.0	0.0	0.0	30.0	2.0
		Ultrasound Physics-II	DMS-2.2	30.0	0.0	0.0	30.0	2.0
		Ultrasound Physics-III	DMS-2.3	30.0	0.0	0.0	30.0	2.0
		Abdominal Vasculature Peritoneal Cavity	DMS-2.4	32.0	32.0	0.0	64.0	3.0
		Liver	DMS-2.5	32.0	32.0	0.0	64.0	3.0
		Gallbladder and Biliary Tree	DMS-2.6	46.0	16.0	0.0	62.0	3.5
		Pancreas and Spleen	DMS-2.7	32.0	32.0	0.0	64.0	3.0
		Urinary Tract	DMS-2.8	32.0	32.0	0.0	64.0	3.0
Genital and Superficial Structure	DMS-2.9	46.0	16.0	0.0	62.0	3.5		
3	OBSTETRICAL AND GYNECOLOGICAL ULTRASOUND	Ultrasound Physics-IV	DMS-3.1	30.0	0.0	0.0	30.0	2.0
		Gynecology	DMS-3.2	30.0	32.0	0.0	62.0	3.0
		Obstetrics	DMS-3.3	20.0	8.0	0.0	28.0	1.5
4	NEONATAL ULTRASOUND	Neonatal	DMS-4.1	20.0	8.0	0.0	28.0	1.5
5	VASCULAR TECHNOLOGY	Ultrasound Physics-V	DMS-5.1	30.0	0.0	0.0	30.0	2.0
		Cerebrovascular System	DMS-5.2	32.0	0.0	0.0	32.0	2.0
		Upper extremities; Arterial and Venous	DMS-5.3	48.0	16.0	0.0	64.0	3.5
		Lower extremities; Arterial and Venous	DMS-5.4	48.0	16.0	0.0	64.0	3.5
6	CARDIAC ULTRASOUND	Cardiac Fundamentals, Principles of Cardiac Pharmacology	DMS-6.1	20.0	8.0	0.0	28.0	1.5
		Pathological Mechanism and Non-Invasive Diagnostic Tests	DMS-6.2	20.0	8.0	0.0	28.0	1.5
		Hemodynamics and Practical Application of Echocardiography	DMS-6.3	48.0	24.0	0.0	72.0	4.0
		Disease State Identification	DMS-6.4	48.0	16.0	0.0	64.0	3.5
7	CLINICAL	Externships	DMS-7.1	0.00	0.00	900	900	20.0
<b>TOTAL</b>				<b>780</b>	<b>300</b>	<b>900</b>	<b>1980</b>	<b>78.5</b>

## **DIAGNOSTIC MEDICAL SONOGRAPHY (DIPLOMA PROGRAM)** **PROGRAM AGENDA**

### **MODULE 1 GENERAL EDUCATION PRE-REQUISITE COURSES**

General Education pre-requisite courses within a Diagnostic Medical Sonography diploma program is intended to create a well-rounded individual with good general knowledge of several areas outside the specific major field of the graduate. At American Medical Sciences Center, the general education component is made up of the following courses:

- DMS-1.1 MEDICAL TERMINOLOGY AND CAREER DEVELOPMENT**
- DMS-1.2 MEDICAL ETHICS, MEDICAL LAW AND COMMUNICATIONS SKILLS**
- DMS-1.3 GENERAL ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY**
- DMS-1.4 BASIC ALGEBRA, MATHEMATICS AND PHYSICS**
- DMS-1.5 SCANNING TECHNIQUES AND BASIC PATIENT CARE**

### **MODULE 2 GENERAL ULTRASOUND**

In this module, students will gain an understanding of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the organs of the abdominal-pelvic cavity. At American Medical Sciences Center, the General Ultrasound component is made up of the following courses:

- DMS-2.1 ULTRASOUND PHYSICS-I**
- DMS-2.2 ULTRASOUND PHYSICS-II**
- DMS-2.3 ULTRASOUND PHYSICS-III**
- DMS-2.4 ABDOMINAL VASCULATURE**
- DMS-2.5 LIVER**
- DMS-2.6 GALLBLADDER AND BILIARY TREE**
- DMS-2.7 PANCREAS AND SPLEEN**
- DMS-2.8 URINARY TRACT**
- DMS-2.9 GENITAL AND SUPERFICIAL STRUCTURE**

### **MODULE 3 OBSTETRICAL AND GYNECOLOGICAL ULTRASOUND**

In this module, students will gain an understanding of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the organs of the abdominal-pelvic cavity. In this module, students will gain an understanding of the normal neonatal structures includes clinical indications, pathological conditions of the organs imaging techniques and report writing. At American Medical Sciences Center, the Obstetrical and Gynecological Ultrasound component is made up of the following courses:

- DMS-3.1 ULTRASOUND PHYSICS-IV**
- DMS-3.2 GYNECOLOGY**
- DMS-3.3 OBSTETRICS**
- DMS-3.5 NEONATAL**

### **MODULE 4 NEONATAL ULTRASOUND**

- DMS-4.1 NEONATAL**

On completion of this module, you should be able to describe how intrauterine growth restriction may be detected by sonography, how differentiate between symmetric and asymmetric intrauterine growth restriction and describe how to assess amniotic fluid volume.

### **MODULE 5 VASCULAR TECHNOLOGY**

This module is designed for students to gain knowledge in ultrasound imaging of the upper and lower extremity. It includes a brief anatomical review of the systemic arteries and systemic veins. The students will be able to identify of extra and intra cranial Cerebra Vascular systems. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. Classroom instruction will be coordinated with practical activities.

- DMS-5.1 ULTRASOUND PHYSICS-V**
- DMS-5.2 CEREBROVASCULAR SYSTEM**
- DMS-5.3 UPPER EXTREMITIES; ARTERIAL AND VENOUS**

 **DIAGNOSTIC MEDICAL SONOGRAPHY**  
**PROGRAM AGENDA**

**MODULE 6 CARDIAC ULTRASOUND**

The purpose of this module is to explore in detail the construction and dynamics of the cardiovascular system. Topics include anatomical and physiological considerations, cardiac pumping action and its regulation, basic hemodynamics, and systemic and pulmonary circulation. Classroom instruction will be coordinated with certain lab activities. This module will prepare the student to recognize the pathological processes of the cardiovascular system.

- DMS-6.1 CARDIAC FUNDAMENTALS, PRINCIPLES OF CARDIAC PHARMACOLOGY**
- DMS-6.2 PATHOLOGICAL MECHANISM AND NON-INVASIVE DIAGNOSTIC TESTS**
- DMS-6.3 HEMODYNAMICS AND PRACTICAL APPLICATION OF ECHOCARDIOGRAPHY**
- DMS-6.4 DISEASE STATE IDENTIFICATION**

**MODULE 7 CLINICAL**

Students participate in a clinical externship where they will gain hands-on training. The clinical part of program provides students with actual hands-on experience in diagnostic care to patients of all ages and stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center.

- DMS-7.1 EXTERNSHIPS**
- DMS-7.2 EXTERNSHIPS**
- DMS-7.3 EXTERNSHIPS**
- DMS-7.4 EXTERNSHIPS**

 **PROGRAM PERFORMANCE FACT SHEET**

(Includes data for two calendar years)

**Diagnostic Medical Sonography Diploma (Completion Rates)**

Calendar Year	Number of students who began Program	Students available for graduation	Graduates	Completion Rate
2013	56	56	51	91%
2014	39	39	19	49%

**Students Completing After Published Program Length - 150% Completion Rate**

Calendar Year	Number of students who began Program	Students available for graduation	150 % Graduates	150 % Completion Rate
2013	56	56	5	9%
2014	39	39	20	51%

**Diagnostic Medical Sonography (Placement Rates)**

Calendar Year	Number of students who began program	Number of graduates	Graduates available for employment	Graduates employed in the field	Placement Rate % employed in the field	Graduates employed in the field an average of less than 32 hours per week	Graduates employed in the field at least 32 hours per week
2013	56	51	51	36	71%	23	11
2014	39	39	39	28	72%	17	13

## DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM DESCRIPTIONS

**COURSE NAME:**MEDICAL TERMINOLOGY AND  
CAREER DEVELOPMENT

**COURSE TITLE:** DMS-1.1

**PREREQUISITE:** NONE

**LECTURE HOURS:** 12.0

**LABORATORY HOURS:** 0.0

**TOTAL CLOCK HOURS:** 12.0

**TOTAL CREDITS HOURS:** 0.5

**SUBJECTS:**

- ☒ Structure of medical words (roots, prefixes)
- ☒ Abbreviations
- ☒ Sonography specific terminology
- ☒ Preparation for job search, study skills
- ☒ The job search (resume writing, interviewing)
- ☒ Continued advancement (registries/credentials)

Students learn medical and specific sonographic terminology. This course is designed to assist the student with personal and professional development for successful employment with a concentration on developing a positive self-image, assessing competitive strengths, career expectations, learning job search techniques, in addition to written skills and current resume preparation.

**COURSENAME:** MEDICAL ETHICS,  
COMMUNICATIONS SKILLS AND MEDICAL LAW

**COURSE TITLE:** DMS-1.2

**PREREQUISITE:** DMS-1.1

**LECTURE HOURS:** 8.0

**LABORATORY HOURS:** 0.0

**TOTAL CLOCK HOURS:** 8.0

**TOTAL CREDITS HOURS:** 0.5

**SUBJECTS:**

- ☒ Ethical decision-making
- ☒ Legal principles
- ☒ Patient bill of right
- ☒ Patient communications
- ☒ Staff communications, telecommunications
- ☒ Writing technical reports
- ☒ Legal issues of patient confidentiality

This course familiarizes the students with an understanding of the specific laws and regulations that impact the healthcare environment and fundamental medical ethics. Students are introduced to medical office safety, security, and emergency provisions. This course is designed to develop the student's ability to communicate effectively. Emphasis is placed upon the basic elements of workplace effectiveness (Sufficient to perform in a traditional medical work environment including patient interviews, chart evaluations, diagnostic testing protocols).

**COURSE NAME:**GENERAL ANATOMY,  
PHYSIOLOGY AND PATHOPHYSIOLOGY

**COURSE TITLE:** DMS-1.3

**PREREQUISITE:** DMS-1.2

**LECTURE HOURS:** 20.0

**LABORATORY HOURS:** 0.0

**TOTAL CLOCK HOURS:** 20.0

**TOTAL CREDITS HOURS:** 1.0

**SUBJECTS:**

- ☒ Cardiopulmonary/cardiovascular systems
- ☒ Central Nervous system
- ☒ Gastrointestinal system
- ☒ Musculoskeletal system
- ☒ Reproductive systems
- ☒ Urinary system
- ☒ Endocrine system
- ☒ Hematopoietic system
- ☒ Immune system

The students will be introduced to the fundamentals of chemistry and human anatomy, physiology, and pathophysiology. The course includes the ability to recognize and identify all major body systems and understanding the primary physiological reactions of the human body.

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 Program Description (cont.)
 

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**COURSENAME:** BASIC ALGEBRA,  
MATHEMATICS AND PHYSICS

**COURSE TITLE** DMS-1.4  
**PREREQUISITE** NONE  
**LECTURE HOURS** 20.0  
**LABORATORY HOURS** 0.0  
**TOTAL CLOCK HOURS** 20.0  
**TOTAL CREDITS HOURS** 1.0

**SUBJECTS:**

- ☒ Basic Algebra
- ☒ Measurements, calculations, metric conversions
- ☒ Linear equation and inequalities
- ☒ Principles of motion, work and heat
- ☒ Principles of acoustic and light waves
- ☒ Principles of Ultrasound Physics
- ☒ Sound production and propagation
- ☒ Transducer architecture and selection
- ☒ Bio-effects, Artifacts, and safety

This course is designed to provide students with an understanding of the general principles and theories underlying algebra, mathematics and fundamental physics. This course builds on the principles of linear equations, graphing, functions, rational expressions, radicals and systems of equations. Emphasis is placed on critical thinking and problem-solving skills. This course is designed to provide students with an understanding of the general principles and theories underlying Ultrasound Physics.

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**COURSE NAME:**SCANNING TECHNIQUES AND  
BASIC PATIENT CARE

**COURSE TITLE:** DMS-1.5  
**PREREQUISITE:** DMS-1.3  
**LECTURE HOURS:** 16.0  
**LABORATORY HOURS:** 4.0  
**TOTAL CLOCK HOURS:** 20.0  
**TOTAL CREDITS HOURS:** 1.0

**SUBJECTS:**

- ☒ Introduction to scanning methods
- ☒ Purpose and function of various scanning Techniques and patient safety
- ☒ Patient communication strategies for dealing with difficult patients
- ☒ Infection control and universal precaution procedures
- ☒ Principles of psychological support
- ☒ Emergency conditions and procedures
- ☒ Transfer/transportation techniques
- ☒ Legal/ethical issues

The class teaches the student the basic concept of sonographic appearance, patient position during sonographic examinations, and interpretation of sonographic characteristics. Classroom instruction will be coordinated with certain lab activities. The students will be introduced by the format of books, handouts, and video-representation.

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**COURSE NAME:**ULTRASOUND PHYSICS-I

**COURSE TITLE:** DMS-2.1  
**PREREQUISITE:** DMS-1.1-1.5  
**LECTURE HOURS:** 30.0  
**LABORATORY HOURS:** 0.0  
**TOTAL CLOCK HOURS:** 30.0  
**TOTAL CREDITS HOURS:** 2.0

**SUBJECTS:**

- ☒ Continuous Wave
- ☒ Pulse Wave
- ☒ Intensity and Attenuation
- ☒ Impedances and Angles

This course will provide the student with theoretical understanding of the principles of ultrasound physics as it applies to diagnostic medical imaging. The course material will focus on physical principles of sound energy, sound production, transmission and reflection. This course provides an introduction to and an overview of the principles of ultrasound physics as it applies to diagnostic medical imaging. Emphasis will be placed on physical principles of sound waves, and its categorization.

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 Program Description (cont.)
**COURSE NAME:** ULTRASOUND PHYSICS-II**COURSE TITLE:** DMS-2.2**PREREQUISITE:** DMS-2.1**LECTURE HOURS:** 30.0**LABORATORY HOURS:** 0.0**TOTAL CLOCK HOURS:** 30.0**TOTAL CREDITS HOURS:** 2.0**SUBJECTS:**

- ☒ Transducers Architectures
- ☒ Beam formers (Near, far zones)
- ☒ Type of transducers
- ☒ Set up ultrasound system
- ☒ Problems and Solutions

The course material will focus on physical principles of sound energy, transducers architecture, sound production and beam structural design. This module teaches the student the developmental concept of sonographic appearance; architectures of the modern technology scan heads and potential artifacts.

**COURSE NAME:**ULTRASOUND PHYSICS-III**COURSE TITLE:** DMS-2.3**PREREQUISITE:** DMS-2.2**LECTURE HOURS:** 30.0**LABORATORY HOURS:** 0.0**TOTAL CLOCK HOURS:** 30.0**TOTAL CREDITS HOURS:** 2.0**SUBJECTS:**

- ☒ Doppler Effect
- ☒ Doppler Equations and Hemodynamics
- ☒ Circulatory System
- ☒ Critical Stenosis
- ☒ Energy, Pressure, Flow resistance
- ☒ Spectral Instruments

In this course, the students learn the fundamentals of the Doppler physics. This course teaches the student the developmental concept of sonographic appearance including spectral and color Doppler instruments. Classroom instruction will be coordinated with certain instrumental activities include appropriate adjustment to M-mode, color flow and spectral trace.

**COURSE NAME:**ABDOMINAL VASCULATURE,  
PERITONEAL CAVITY**COURSE TITLE:** DMS-2.4**PREREQUISITE:** DMS-1.1-1.5**LECTURE HOURS:** 32.0**LABORATORY HOURS:** 32.0**TOTAL CLOCK HOURS:** 64.0**TOTAL CREDITS HOURS:** 3.0**SUBJECTS:**

- ☒ Abdominal Cavities
- ☒ Abdominal Vascular System
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal vascular system. It includes a brief anatomical review of the systemic arteries, systemic veins, and portal veins.

The course provides students with an understanding of the peritoneal cavity and potential spaces the pelvic-pelvic cavity where fluid collections and pathologies may be located. Also, this course will give the student a comprehensive understanding of the pathological processes that may affect the abdominal vascular organs. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. Classroom instruction will be coordinated with practical activities.

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 Program Description (cont.)
 

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**COURSENAME:LIVER**

**COURSE TITLE** DMS-2.5  
**PREREQUISITE:** DMS-2.4  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 32.0  
**TOTAL CLOCK HOURS:** 64.0  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Gastrointestinal Organs
- ☒ Anatomy of the Liver
- ☒ Physiology and Pathophysiology
- ☒ Vascular system of the Liver
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal gastrointestinal organs. It includes a comprehensive anatomical review of the Liver, cross-sectional anatomy of these structures and their appearance on the sonogram. Classroom instruction will be coordinated with practical activities. This course will give the student a complete understanding of the pathological processes that may affect the Liver.

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**COURSES NAME:GALLBLADDER AND BILIARY TREE**

**COURSE TITLE:** DMS-2.6  
**PREREQUISITE:** DMS-2.5  
**LECTURE HOURS:** 46.0  
**LABORATORY HOURS:** 16.0  
**TOTAL CLOCK HOURS:** 62.0  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ Anatomy of the Gallbladder, Biliary Tree
- ☒ Physiology and Pathophysiology
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course introduces the normal anatomy, anatomic variants, physiology and pathologic conditions and ultrasound evaluation of the Gallbladder. This course will give the student a complete understanding of the pathological processes that may affect the Gallbladder. Cross-sectional anatomy of this structure and their appearance on the sonogram will also be discussed. Instruction will be coordinated with practical activities.

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**COURSE NAME: PANCREAS AND SPLEEN**

**COURSE TITLE:** DMS-2.7  
**PREREQUISITE:** DMS-2.6  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 32.0  
**TOTAL CLOCK HOURS:** 64.0  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Anatomy of the Pancreas and Spleen
- ☒ Physiology and Pathophysiology
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques
- ☒ Report Writing

This course will prepare students to acquire the knowledge the location, anatomy, physiology and pathology of the Pancreas and Spleen. This course studies basic structures viewed in sectional anatomy. This course will give the student a comprehensive understanding of the pathological processes that may affect these organs. This module also provides development of skills in scanning technique. This course will prepare the student to recognize the pathological processes of the endocrine and hematopoietic system.

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 Program Description (cont.)
 

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**COURSE NAME:**URINARY TRACT

**COURSE TITLE:** DMS-2.8  
**PREREQUISITE:** DMS-2.7  
**LECTURE HOURS:** 46.0  
**LABORATORY HOURS:** 16.0  
**TOTAL CLOCK HOURS:** 62.0  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

☒ Organ's Anatomy  
 ☒ Physiology and Pathophysiology  
 ☒ Cross-Sectional Anatomy  
 ☒ Clinical Indications  
 ☒ Normal and Abnormal Conditions  
 ☒ Imaging Techniques  
 ☒ Report Writing

This course will provide the student with a theoretical and practical knowledge of the urinary tract, including anatomy, normal anatomic variants, physiology and pathologic conditions of the Kidney(s), Adrenal Glands, and Urinary Bladder. This course includes discussion of the various exam protocols of ultrasound evaluation of the urinary organs. Classroom instruction will be coordinated with practical activities.

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**COURSE NAME:** GENITAL AND SUPERFICIAL STRUCTURE

**COURSE TITLE:** DMS-2.9  
**PREREQUISITE:** DMS-2.8  
**LECTURE HOURS:** 48.0  
**LABORATORY HOURS:** 16.0  
**TOTAL CLOCK HOURS:** 64.0  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

☒ Organ's Anatomy  
 ☒ Physiology and Pathophysiology  
 ☒ Cross-Sectional Anatomy  
 ☒ Clinical Indications  
 ☒ Normal and Abnormal Conditions  
 ☒ Imaging Techniques  
 ☒ Report Writing

This course teaches normal anatomy, anatomic variants, normal physiology and pathological conditions of the superficial structures. The course focuses on the development of the student's ability to scan accurately the Thyroid and Parathyroid glands. Classroom instruction will be coordinated with laboratory activities. This course will provide the student with a theoretical and practical knowledge of the genital and superficial organs including anatomy, normal anatomic variants, physiology and pathologic conditions of the Reproductive organs (Scrotum, Prostate).. Also,

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**COURSE NAME:**ULTRASOUND PHYSICS-IV

**COURSE TITLE:** DMS-3.1  
**PREREQUISITE:** DMS-2.3  
**LECTURE HOURS:** 30.0  
**LABORATORY HOURS:** 0.0  
**TOTAL CLOCK HOURS:** 30.0  
**TOTAL CREDITS HOURS:** 2.0

**SUBJECTS:**

☒ System's Construction  
 ☒ System's Vital Components  
 ☒ Receiver Functions  
 ☒ Pre and Post Processing  
 ☒ Image Storage and Monitors  
 ☒ Display Modes

This course familiarizes the students with an understanding of fundamental instrumentations, including but not limited to receiver functions, pre and post processing and imaging modes. This course is designed to develop the student's ability to knobology, including physical principles of the Overall gain, Time gain Compensation, depth, Focusing and 2-D gray scale controls. This course will provide the student with a theoretical and practical knowledge of all components of ultrasound machine.

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 Program Description (cont.)
 

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<b>COURSE NAME:</b>	GYNECOLOGY	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-3.2	☒ Anatomy of the Female Pelvis
<b>PREREQUISITE:</b>	DMS-2.9	☒ Physiology and Pathology of the Female Pelvis
<b>LECTURE HOURS:</b>	30.0	☒ Cross-Sectional Anatomy,
<b>LABORATORY HOURS:</b>	32.0	☒ Clinical Indications
<b>TOTAL CLOCK HOURS:</b>	62.0	☒ Normal and Abnormal Conditions
<b>TOTAL CREDITS HOURS:</b>	3.0	☒ Imaging Techniques, Doppler Flow Pattern
		☒ Report Writing

The course teaches and demonstrates knowledge of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the female pelvis. This course will prepare the students to perform sonograms of the female pelvis. It includes a comprehensive anatomical review of the female reproductive organs. This course is designed to provide students with an understanding of the potential complicating conditions of the gravid female pelvis to include uterine and ovarian location, size and vascular changes. Classroom instruction will be coordinated with practical activities.

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<b>COURSE NAME</b>	OBSTETRICS	<b>SUBJECTS:</b>
<b>COURSE TITLE</b>	DMS-3.3	☒ Normal Trimesters, Placenta, Amniotic Fluid,
<b>PREREQUISITE:</b>	DMS-3.2	☒ Fetal Anatomy
<b>LECTURE HOURS:</b>	20.0	☒ Fetal Circulation
<b>LABORATORY HOURS:</b>	8.0	☒ Clinical Indications (Gestational Age, Well Being)
<b>TOTAL CLOCK HOURS:</b>	28.0	☒ Complications-Maternal and fetal
<b>TOTAL CREDITS HOURS:</b>	1.5	☒ Fetal Abnormalities
		☒ Imaging Techniques, Doppler Flow Pattern
		☒ Report Writing

The course teaches and demonstrates knowledge of the normal trimesters, anatomic variants including but not limited to Placenta, Amniotic Fluid, and Fetal Circulation. It includes a comprehensive anatomical review of the clinical indications. This course will give the student a complete understanding of the pathological processes. Vascular Changes, associated cysts of early pregnancy, fluid collections and their appearance on the sonogram will also be discussed. The students learn to identify the various physiological indications of the well-being or distress during appropriate stages of pregnancy to include cardiovascular gastrointestinal, skeletal, genital, urinary, and other biophysical profiles.

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<b>COURSE NAME:</b>	NEONATAL	<b>SUBJECTS:</b>
<b>COURSE TITLE:</b>	DMS-4.1	☒ Normal Structures and Cross-Sectional Anatomy
<b>PREREQUISITE:</b>	DMS-3.3	• Cerebellum, Cerebrum
<b>LECTURE HOURS:</b>	20.0	• Brain Stem, Spinal Cords
<b>LABORATORY HOURS:</b>	8.0	• Meninges, Sutures
<b>TOTAL CLOCK HOURS:</b>	28.0	☒ Clinical Indications
<b>TOTAL CREDITS HOURS:</b>	1.5	☒ Normal and Abnormal Conditions
		☒ Imaging Techniques, Doppler Flow Pattern
		☒ Report Writing

This course will introduce the student to ultrasound imaging of the normal, abnormal anatomy and physiological indications of the neonate to include: Neurovascular, Gastrointestinal, Genital, Urinary, Cardiac, Central and Vascular Systems. Cross-sectional anatomy of this structure and their appearance on the sonogram will also be discussed. Course teaches and demonstrates knowledge of the normal structures, including Cerebellum, Cerebrum, Brain Stem, Spinal Cord, and Ventricular System

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 Program Description (cont.)
 

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**COURSE NAME:ULTRASOUND PHYSICS-V**

**COURSE TITLE:** DMS-5.1  
**PREREQUISITE:** DMS-3.1  
**LECTURE HOURS:** 30.0  
**LABORATORY HOURS:** 0.0  
**TOTAL CLOCK HOURS:** 30.0  
**TOTAL CREDITS HOURS:** 2.0

**SUBJECTS:**

☒ Physical Principles of the Vascular System  
 ☒ Plethysmographies  
 ☒ Ohm's Law  
 ☒ Doppler Flow Pattern  
 ☒ Artifacts  
 ☒ Performance and Safety  
 ☒ Statistical profile

This course will prepare the student to recognize the specific vascular physical principles, Plethysmography, Ohm's Law, methods of measuring electrical resistance, and advanced of the Hemodynamics. This course will provide the student with a theoretical and practical knowledge of the Artifacts, Performance and Safety. Specific topics to be covered include diagnostic statistical profile.

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**COURSES NAME: CEREBROVASCULAR SYSTEM**

**COURSE TITLE:** DMS-5.2  
**PREREQUISITE:** DMS-4.1  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 0.0  
**TOTAL CLOCK HOURS:** 32.0  
**TOTAL CREDITS HOURS:** 2.0

**SUBJECTS:**

☒ Structural Anatomy  
 ☒ Cross-Sectional Anatomy  
 ☒ Clinical Indications  
 ☒ Normal and Abnormal Conditions  
 ☒ Imaging Techniques, Doppler Flow Pattern  
 ☒ Report Writing

This course familiarizes the students with an understanding of the Transcranial Cerebrovascular Systems. This course will prepare the student to recognize the pathological processes of the cerebrovascular vascular system. Emphasis is placed on the ability to recognize and identify Cervical/Neck scanning techniques. The student learns to identify and perform extra cranial carotid and vertebral artery exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Students learn to perform calculation measurements include ICA/CCA, Peak systolic/End Diastolic Velocities and Middle Cerebral, Anterior Cerebral, Posterior Cerebral, Vertebral Basilar Arteries.

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**COURSE NAME:UPPER EXTREMITIES;  
ARTERIAL AND VENOUS**

**COURSE TITLE** DMS-5.3  
**PREREQUISITE:** DMS-5.2  
**LECTURE HOURS:** 48.0  
**LABORATORY HOURS:** 16.0  
**TOTAL CLOCK HOURS:** 64.0  
**TOTAL CREDITS HOURS** 3.5

**SUBJECTS:**

☒ Structural Anatomy  
 ☒ Cross-Sectional Anatomy  
 ☒ Clinical Indications  
 ☒ Normal and Abnormal Conditions  
 ☒ Imaging Techniques, Doppler Flow Pattern  
 ☒ Report Writing

Emphasis is placed on the ability to recognize and identify upper extremities vascular systems. It includes a brief anatomical review of the systemic arteries and systemic veins. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will prepare the student to recognize the pathological processes of the upper vascular system. Students learn to perform Segmental Pressure, Segmental Plethysmographies, Duplex scanning of native arteries and veins of the upper extremities, including but not limited to false aneurysm and arteriovenous fistula identification.

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 Program Description (cont.)
 

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**COURSE NAME:** LOWER EXTREMITIES;  
ARTERIAL AND VENOUS

**COURSE TITLE** DMS-5.4  
**PREREQUISITE:** DMS-5.3  
**LECTURE HOURS** 48.0  
**LABORATORY HOURS** 16.0  
**TOTAL CLOCK HOURS** 64.0  
**TOTAL CREDITS HOURS** 3.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Report Writing

This course is designed for students to gain knowledge in ultrasound imaging of the lower extremity. It includes a brief anatomical review of the systemic arteries and systemic veins. Students learn to perform Segmental Pressure, Segmental Plethysmographies, Duplex scanning of native arteries and veins of the lower extremities, including but not limited to false aneurysm and arteriovenous fistula identification. This course will prepare the student to recognize the pathological processes of the lower vascular system.

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**COURSE NAME:** CARDIAC FUNDAMENTALS,  
PRINCIPLES OF CARDIAC PHARMACOLOGY

**COURSE TITLE:** DMS-6.1  
**PREREQUISITE:** DMS-5.4  
**LECTURE HOURS:** 20.0  
**LABORATORY HOURS:** 8.0  
**TOTAL CLOCK HOURS:** 28.0  
**TOTAL CREDITS HOURS:** 1.5

**SUBJECTS:**

- ☒ Medical Terminology
- ☒ Cardiac Anatomy and Physiology
- ☒ Electrocardiology
- ☒ Principles of Cardiac pharmacology
- ☒ ADME of Cardiac Specific Drugs
- ☒ Drugs used for Cardiac Emergency
- ☒ Imaging Techniques,

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. Topics include cardiac medical terminology and the metric conversions required in cardiac therapy, as well as cardiopulmonary anatomical and physiological considerations, cardiac pumping action and electrocardiology. Student learns its systemic and pulmonary circulations, basic principles of cardiac pharmacology and specific drugs. Classroom instruction will be coordinated with certain laboratory activities.

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**COURSE NAME:** PATHOLOGICAL MECHANISM  
AND NON-INVASIVE DIAGNOSTIC TESTS

**COURSE TITLE:** DMS-6.2  
**PREREQUISITE:** DMS-6.1  
**LECTURE HOURS:** 20.0  
**LABORATORY HOURS:** 8.0  
**TOTAL CLOCK HOURS:** 28.0  
**TOTAL CREDITS HOURS:** 1.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Sonographic Cross-Sectional Anatomy
- ☒ Pathology/Pathophysiology
- ☒ Clinical Indications and Therapeutic Measures
- ☒ Abnormal Conditions and Congenital Diseases
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation

The course teaches and demonstrates knowledge of the cardiac structural anatomy. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will prepare the student to recognize the pathological processes and therapeutic measures. The student learns to identify and perform exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. The class teaches the student the basic concept of sonographic appearance, patient position during sonographic examinations, and interpretation of sonographic characteristics.

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 Program Description (cont.)
 

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**COURSE NAME:**HEMODYNAMICS AND PRACTICAL APPLICATION

**COURSE TITLE** DMS-6.3  
**PREREQUISITE:** DMS-6.2  
**LECTURE HOURS:** 48.0  
**LABORATORY HOURS:** 24.0  
**TOTAL CLOCK HOURS:** 72.0  
**TOTAL CREDITS HOURS:** 4.0

**SUBJECTS:**

- ☒ Principles of Flow
- ☒ Measurements and normal values
- ☒ Physical Considerations
- ☒ M-mode and 2D Echocardiography
- ☒ Assessment Techniques (Objective, Subjective)
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation
- ☒ Report Writing

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. The student learns to identify and perform Cardiac Atrial and Ventricular Hemodynamics using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Students learn to perform M-mode, and 2Dimensional Echocardiography. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed.

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**COURSE NAME:** DISEASE STATE IDENTIFICATION

**COURSE TITLE:** DMS-6.4  
**PREREQUISITE:** DMS-6.3  
**LECTURE HOURS:** 48.0  
**LABORATORY HOURS:** 16.0  
**TOTAL CLOCK HOURS:** 64.0  
**TOTAL CREDITS HOURS:** 3.5

**SUBJECTS:**

- ☒ Ischemic Heart and Coronary Artery Diseases
- ☒ Diseases of the Myocardium
- ☒ Acquired Valvular Disease
- ☒ Thrombi and Aneurysms
- ☒ Congenital Heart Disease
- ☒ Prosthetics Valve

This course will prepare the student to recognize the pathological processes of the cardiovascular system. The following topics will be discussed: Ischemic Heart and Coronary Artery, Myocardial and Pericardial, Valvular and other Heart Diseases. A thorough understanding of normal cardiovascular anatomy and physiology is mandatory in order to comprehend these advanced topics.

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**COURSE NAME** EXTERNSHIPS

**COURSE TITLE** DMS-7.1-7.4  
**PREREQUISITE:** ALL  
**LECTURE HOURS** 0.0  
**PRACTICAL HOURS** 900.0  
**TOTAL CLOCK HOURS** 900.0  
**TOTAL CREDITS HOURS** 20.0

**SUBJECTS:**

- ☒ Hands on Training
- ☒ Manual Analyses
- ☒ Automated Analyses,
- ☒ Monitoring and Control Procedures
- ☒ Evaluation and Reporting

Students participate in a clinical externship where they will gain hands on training. The clinical part of program provides students with actual hand-on experience providing diagnostic care to patient of all ages, stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center.

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**EXAMINATION SCHEDULE** After completion of each course the students will take an exam. The students will also be taking a final exam after completing all the didactic modules.

**SUCCESSFUL COMPLETION** Students must perform the practical portion of their training in an approved facility and receive a satisfactory evaluation. With the completion of this diploma program, which includes the externship, you may choose an option of sitting for a certification test with the RDMS, RDCS, RVT provided through ARDMS(American Registry of Diagnostic Medical Sonographers) or/and

## VOCATIONAL NURSING

**DIPLOMA PROGRAM D.O.T. CODE 079.374-014 C.I.P. 51.1613  
90.5QUARTER CREDIT, 1624CLOCK HOURS 67 WEEKS.**

**EDUCATIONAL OBJECTIVE:** Nursing education is formal learning and training in the art and science of nursing. This includes functions, duties, and scope of responsibility in the physical, emotional, environmental, and community care of individuals and a combination of different disciplines that both accelerates the return to health and helps maintain it. Method of instruction includes lecture, demonstration, return demonstration, discussion, visual aids, computer lab, NCLEX review, instruction supervision, and clinical experience. Coursework includes 19 classes.

**PROFESSIONAL DUTIES:** Graduates will meet the requirements to take the licensing exam (NCLEX-PN) and seek entry level positions in hospitals, clinics, and patient care settings.

**GRADUATION REQUIREMENTS:** Graduates must successfully complete all courses with a minimum grade of 75% and all other curriculum requirements for the Vocational Nursing Program, including an Exit Exam. Students must perform the clinical portion of their training in an approved medical facility and receive satisfactory clinical evaluations.

**PREREQUISITES:** There are no prerequisite courses. However, students must fulfill all of the requirements for general admission as outlined in the catalog.

### SAMPLE OF GRADING SYSTEM

The school's grading system in Vocational Nursing Program is as follows:

- The school's grading system in all of its programs is as follows:
- A (Excellent) B (Above Average); C (Average) F (Not Passing)
- 90% - 100%      80% - 89%      75% - 79%      <75%

### CREDIT/CLOCK HOUR CONVERSIONS

For programs of study, the conversion from clock hours to credit hours is as follows:

10 Lecture	Clock Hours	=	1 Quarter Credit Hour
20 Laboratory	Clock Hours	=	1 Quarter Credit Hour
30 Externship	Clock Hours	=	1 Quarter Credit Hour

### EVALUATION METHODOLOGY

The Director of Nursing will complete progress evaluation forms on each student at mid-point and at the end of each term. The documents for each progress evaluation include:

- Clinical Competency Evaluation (to be initiated by the clinical instructor)
- Theory Progress Report (to be initiated by the theory instructor)
- Theory Remediation and Plan of Correction Form

**EXAMINATION SCHEDULE-** After completion of all the courses in each term. Graduation is acknowledged by awarding a diploma which allows the students to take the NCLEX-PN exam.

**SUCCESSFUL COMPLETION -** Students must perform the clinical portion of their training in an approved medical facility and receive satisfactory clinical evaluations. Graduation is acknowledged by awarding a diploma which allows the students to take the NCLEX-PN exam.

### Program Performance Fact Sheet

Calendar Year	Number of Students Who Began Program <sup>1</sup>	Students Available for Graduation <sup>2</sup>	Graduates <sup>3</sup>	Completion Rate <input type="checkbox"/>
<b>2013</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

2014	13	12	12	92%
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## VOCATIONAL NURSING PROGRAM OUTLINE

TERMS	COURSES TITLE	COURSE NUMBERS	LECT. CLOCK HOURS	LAB. CLOCK HOURS	CLINIC. CLOCK HOURS	TOTAL CLOCK HOURS	QUARTER CREDITS HOURS
1	Fundamentals of Nursing: <i>Evolution of nursing, Legal/ Ethical</i>	VN 100	10.0	16.0	0.0	26.0	1.8
	Fundamentals of Nursing: <i>Communication; Body mechanics and patient mobility</i>		10.0	16.0	0.0	26.0	1.8
	Fundamentals of Nursing: <i>Safety; Hygiene</i>		15.0	24.0	0.0	39.0	2.7
	Fundamentals of Nursing: <i>Vitals; Physical Assessment</i>		15.0	24.0	0.0	39.0	2.7
	Fundamentals of Nursing: <i>Med/Surgical Asepsis and Infection Control</i>		10.0	16.0	0.0	26.0	1.8
	Fundamentals of Nursing: <i>Surgical Wound Care; Emergency First Aid nursing</i>		10.0	4.0	0.0	14.0	1.2
	Fundamentals of Nursing: <i>Selected nursing skills</i>		10.0	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Nursing process; Critical Thinking</i>		10.0	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Documentation; Culture</i>		10.0	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Life span</i>		10.0	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Loss, Grief, Dying, Death; Admission, Transfer and Discharge</i>		10.0	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Pain management, rest and sleep; Complementary &amp; Alternative Therapy; Specimen collection &amp; Diagnostic Exams</i>		15.0	0.0	32.0	47.0	3.1
	Fundamentals of Nursing: <i>Health promotion Care of the Older Adult</i>		10	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Home Health; Long Term care; Rehabilitation; Hospice</i>		10	0.0	16.0	26.0	1.8
	Fundamentals of Nursing: <i>Nutrition; Fluids and Electrolytes</i>		10	0.0	16	26.0	1.8
	Fundamentals of Nursing: <i>Math review; Medication Administration</i>		10	16	0.0	26.0	1.8
Fundamentals of Nursing: <b>Final</b>	10	0.0	16.0	26.0	1.8		
2	Language of Medicine: <i>Basic Word Structure, Terms Pertaining to the Body as a Whole, Suffixes, Prefixes</i>	VN 200	10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Digestive System, Urinary System</i>		10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Female/Male Reproductive System</i>		10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Nervous System,</i>		10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Cardiovascular System, Respiratory System</i>		10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Blood, Lymphatic and Immune System</i>		10	0.0	16.0	26.0	1.8
	Language of Medicine: <i>Musculoskeletal System, Integumentary System</i>		10	0.0	16.0	26.0	1.8
Language of Medicine: <i>Endocrine System</i>	10	0.0	16.0	26.0	1.8		

Language of Medicine: <b>Final</b>	0.0	0.0	8.0	8.0	0.4
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## VOCATIONAL NURSING PROGRAM OUTLINE (CONT.)

TERMS	COURSES TITLE	COURSE NUMBERS	LECT. CLOCK HOURS	LAB. CLOCK HOURS	CLINIC. CLOCK HOURS	TOTAL CLOCK HOURS	QUARTER CREDITS HOURS
2	Language of Medicine: <i>Endocrine System</i>	VN 201	10.0	0.0	16.0	26.0	1.8
	Language of Medicine: <b>Final</b>		0.0	0.0	8.0	8.0	0.4
	Adult Health Nursing: <i>Care of the Surgical Patient</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Integumentary Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Musculoskeletal Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Blood/Lymphatic Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Cardiovascular Disorders</i>		20.0	0.0	32.0	52.0	3.6
	Adult Health Nursing: <b>Final</b>		0.0	0.0	0.0	0.0	0.0
3	Adult Health Nursing: <i>Care of the Patient with Respiratory Disorders</i>	VN 300	20.0	0.0	32.0	52.0	3.6
	Adult Health Nursing: <i>Care of the Patient with Urinary System Disorders</i>		20.0	0.0	32.0	52.0	3.6
	Adult Health Nursing: <i>Care of the Patient with Fluid/Electrolyte Disorders</i>		20.0	0.0	32.0	52.0	3.6
	Adult Health Nursing: <i>Care of the Patient with Cancer and Pharmacological Treatments</i>		20.0	0.0	32.0	52.0	3.6
	Adult Health Nursing: <i>Care of the Patient with Endocrine System Disorder</i>		15.0	0.0	32.0	47.0	3.1
	Adult Health Nursing: <i>Care of the Patient with Gastrointestinal System Disorders</i>		25.0	0.0	40.0	65.0	4.5
	Adult Health Nursing: <i>Care of the Patient with Gallbladder, Liver, Biliary Tract, Exocrine Pancreatic Disorder</i>		25.0	0.0	40.0	65.0	4.5
	Adult Health Nursing: <b>Final</b>		0.0	0.0	16.0	16.0	0.8
4	Foundations of Nursing: <i>Basic Concepts of Mental Health, Care of the Patient with a Psychiatric Disorder, Care of the Patient</i>	VN 400	30.0	0.0	48.0	78.0	5.4
	Adult Health Nursing: <i>Care of the Patient with Sensory System Disorders</i>	VN 401	10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Neurological Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Immune System Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Adult Health Nursing: <i>Care of the Patient with Reproductive System Disorders</i>		10.0	0.0	16.0	26.0	1.8
	Foundations of Nursing: <i>Professional Roles and Leadership and Supervision</i>	VN 402	16.0	0.0	32.0	48.0	3.2
	Foundations of Nursing: <i>Health Promotion and Pregnancy, Labor and Delivery, Care of the Mother and Newborn, Care of the High Risk Mother, Newborn and Family with Special Needs</i>	VN 403	24.0	0.0	48.0	72.0	4.8
	Foundations of Nursing: <i>Health Promotion for the Infant, Child and Adolescent, Basic Pediatrics, Physical Disorders</i>	VN 404	24.0	0.0	48.0	72.0	4.8

TOTALS		604.0	116.0	904.0	1624.0	111.4
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**📖 VOCATIONAL NURSING PROGRAM**

PROGRAM DESCRIPTIONS

COURSE NAME: FUNDAMENTALS OF NURSING  
 COURSE TITLE: VN 100  
 PREREQUISITE: NONE  
 LECTURE HOURS: 185.0  
 LABORATORY HOURS: 116.0  
 CLINICAL HOURS: 176.0  
 TOTAL CLOCK HOURS: 477.0  
 TOTAL QUARTER CREDITS HOURS: 33.1

This Level I module introduces the role of the vocational nurse as a provider of care and member of the health care team. Content includes legal and ethical aspects of nursing, concepts of health and wellness, body mechanics, personal hygiene, basic nursing procedures, principles of infection control, emergency care and first aid, nursing assessment and vital signs, principles of nutrition and diet therapy, and cultural and social aspects of nursing. This course discussed the human growth and development, the critical thinking skills, communication, documentation, and the nursing process. Skills taught are necessary to assist clients with achieving an optimal level of health.

COURSE NAME: ANATOMY AND PHYSIOLOGY  
 COURSE TITLE: VN 200  
 PREREQUISITE: VN100  
 LECTURE HOURS: 80.0  
 LABORATORY HOURS: 8.0  
 CLINICAL HOURS: 128.0  
 TOTAL CLOCK HOURS: 216.0  
 TOTAL QUARTER CREDITS HOURS: 14.8

This Term II module continues defines the anatomy and physiology of cells, tissue, organs and systems. Content includes basic word structure, suffixes and prefixes, digestive system, urinary system, female and male reproductive system, nervous system, the sense organs, cardiovascular system, respiratory system, blood and lymphatic system, musculoskeletal system, skin, and endocrine system, with emphasis in Anatomy and Physiology. Skills taught are necessary to assist clients with achieving an optimal level of health. The concepts and applications of Foundations of Nursing from previous module are integrated throughout the curriculum.

COURSE NAME: MEDICAL-SURGICAL NURSING I  
 COURSE TITLE: VN 201  
 PREREQUISITE: VN 200  
 LECTURE HOURS: 60.0  
 LABORATORY HOURS: 0.0  
 CLINICAL HOURS: 96.0  
 TOTAL CLOCK HOURS: 156.0  
 TOTAL QUARTER CREDITS HOURS: 10.8

This Term II module continues the role of the vocational nurse as a provider of care and member of the health care team. Content includes care of the Surgical patient, antimicrobial agents, care of the patient with an integumentary disorder, care of the patient with a musculoskeletal disorder, drugs used to treat musculoskeletal system disorders, care of the patient with a blood and lymph disorder, care of the patient with a cardiovascular disorder, and drugs that affect the cardiovascular system, with emphasis in Adult Health medical surgical, pharmacology, nursing process, and patient

education. Skills taught are necessary to assist clients with achieving an optimal level of health. Principles of Medical Surgical and the vocational nurses' role in the older adult health care are also included.

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PROGRAM DESCRIPTIONS (CONT.)

COURSE NAME: MEDICAL-SURGICAL NURSING II  
COURSE TITLE: VN 300  
PREREQUISITE: VN201  
LECTURE HOURS: 150.0  
LABORATORY HOURS; 0.0  
CLINICAL HOURS: 240.0  
TOTAL CLOCK HOURS: 390.0  
TOTAL QUARTER CREDITS HOURS: 27.0

This Term III module introduces the role of the vocational nurse as a provider of care and member of the health care team. This course discussed the anatomy and physiology of the respiratory and urinary systems, HIV/AIDS, endocrine, GI, GB, liver, pancreas, and body fluids and electrolytes that included disorders of these body systems. The nursing care of clients with those disorders, and the role of the nursing process and nursing care in homeostasis that included pharmacological and nutritional approaches will be discussed in conjunction with prevention and appropriate nursing care interventions. Additionally, it addresses the maintenance of homeostasis and prevention of acid-base imbalance. This module will describe and discuss cancer risks, prevention, development, and detection.

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COURSE NAME: MEDICAL-SURGICAL NURSING III  
COURSE TITLE; VN 400  
PREREQUISITE: VN 300  
LECTURE HOURS: 40.0  
LABORATORY HOURS; 0.0  
CLINICAL HOURS: 64.0  
TOTAL CLOCK HOURS: 104.0  
TOTAL QUARTER CREDITS HOURS: 7.2

This Term IV module continues the role of the vocational nurse as a provider of care and member of the health care team. Content includes care of the sensory, neurological, immunological, and reproductive disorder, drugs used to treat sensory system disorders, neurological disorders, care of the patient with immune system disorders, and reproductive disorders with emphasis in Adult Health medical surgical, pharmacology, nursing process, and patient education. The general principles of pharmacology the application of medication administration are included throughout each system.

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COURSE NAME: LEADERSHIP AND SUPERVISION  
COURSE TITLE: VN 401  
PREREQUISITE: VN400  
LECTURE HOURS: 16.0  
LABORATORY HOURS: 0.0  
CLINICAL HOURS: 32.0  
TOTAL CLOCK HOURS: 48.0  
TOTAL QUARTER CREDITS HOURS: 3.2

This Term IV module continues the role of the vocational nurse as a provider of care and member of the health care team. Content includes nursing leadership and nursing supervision. Skills taught are necessary to assist clients with achieving an optimal level of health. Clinical sites and/or simulated client laboratory assignments provide hands-on learning experiences that enable the student to apply concepts and skills related to safe and effective care, health promotion, psychosocial, and

physiological integrity of the client. Clinical sites and/or simulated client laboratory assignments provide hands-on learning experiences that enable the student to apply concepts and skills related to safe and effective care, health promotion, psychosocial, and physiological integrity of the client.

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COURSE NAME:	MENTAL HEALTH
COURSE TITLE:	VN 402
PREREQUISITE:	VN401
LECTURE HOURS:	30.0
LABORATORY HOURS:	0.0
CLINICAL HOURS:	48.0
TOTAL CLOCK HOURS:	78.0
TOTAL QUARTER CREDITS HOURS:	5.4

This Term IV module builds on the therapeutic communication techniques introduced in VNFN. The focus of this module is nursing care which emphasizes the promotion and support of the emotional, mental, and social well-being of clients in a variety of settings. Included is the continuum of mental health and current treatment modalities. Clinical sites and/or simulated client assignments provide hands on learning experiences. The student will be able to apply concepts of care for clients experiencing psychosocial needs. The Concepts and Application of Mental Health Nursing are integrated throughout the curriculum.

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COURSE NAME:	MATERNAL HEALTH
COURSE TITLE:	VN 403
PREREQUISITE:	VN 402
LECTURE HOURS:	24.0
LABORATORY HOURS:	0.0
CLINICAL HOURS:	48.0
TOTAL CLOCK HOURS:	72.0
TOTAL QUARTER CREDITS HOURS:	4.8

This Term IV module introduces the use of critical thinking skills and the nursing process in caring for the childbearing family. Childbearing health related issues including cultural and spiritual needs are taught as a normal process. Also included is the nursing care for high risk and complications of pregnancy. Emphasis is placed on the childbearing family during the prenatal, intrapartum, and postpartum periods. Nursing care of the neonate is also included. Clinical sites and/or simulated client laboratory assignments provide hands-on learning experiences that enable the student to apply concepts and skills related to the childbearing family. This Term III module introduces the use of critical thinking skills and the nursing process in caring for the childbearing family. Childbearing health related issues including cultural and spiritual needs are taught as a normal process. Also included is the nursing care for high risk and complications of pregnancy.

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COURSE NAME:	PEDIATRIC HEALTH
COURSE TITLE:	VN 404
PREREQUISITE:	VN 403
LECTURE HOURS:	24.0
LABORATORY HOURS:	0.0
CLINICAL HOURS:	48.0
TOTAL CLOCK HOURS:	72.0
TOTAL QUARTER CREDITS HOURS:	4.8

This Term IV module introduces the student to nursing care of children builds on progressive mastery of knowledge, skills and abilities, and critical thinking skills taught in Terms I, II & III. Skills taught are necessary to assist clients with achieving an optimal level of health. The emphasis is placed on growth and development, anticipatory guidance, cultural and spiritual needs and common health care problems of children from infancy through adolescence. Recognition of child abuse and appropriate

nursing interventions are taught. The nurse's role in evidence-based nursing practice is reinforced. Clinical sites and/or simulated client laboratory assignments provide hands-on learning experiences that enable the student to apply concepts and skills related to safe and effective care of children.

## **ECHOVASCULAR TECHNOLOGY**

**DIPLOMA PROGRAM    D.O.T. CODE 078.364-014 C.I.P. 51.0910**  
**29.0 SEMESTER CREDIT HOURS, 900 CLOCK HOURS, 30 WEEKS**

**EDUCATIONAL OBJECTIVE**    Echocardiography is the most rapidly developing field in Sonography/ultrasound. This program offered by the AMSC is intensive in structure and design. The student, after completing the program, will have the necessary knowledge of echocardiography, including but not limited to the application systems in diagnosing of the heart and observing the vascular system.

**PROFESSIONAL DUTIES**    Students gain the necessary knowledge to become competent Echovascular Technicians. Echocardiography Technicians work closely with patients, preparing them for physical examination; assist the doctor in providing treatment for the patient, and; obtain necessary information about the patient's history and vital signs.

**GRADUATION REQUIREMENTS;** Graduates must successfully complete all courses of the program with a minimum grade of 70% and all other curriculum requirements for their course of study. The school attendance policy is a minimum of 90% attendance during the course of study, which is calculated on a monthly basis. Students must perform the clinical portion of their training in an approved medical facility and receive a satisfactory evaluation.

### **SAMPLE OF GRADING SYSTEM**

The school's grading system in all of its programs is as follows:

A (Excellent)	B (Good);	C (Average)	F (Not Passing)
90% - 100%	80% - 89%	70% - 79%	<70%

### **CREDIT/CLOCK HOUR CONVERSIONS**

For all programs of study, the conversion from clock hours to credit hours is as follows:

15 Lecture	Clock Hours	=	1 Semester Credit Hour
30 Laboratory	Clock Hours	=	1 Semester Credit Hour
45 Externship	Clock Hours	=	1 Semester Credit Hour

### **EVALUATION METHODOLOGY**

COMPONENT	FORMULA	AVERAGE GRADE	FINAL GRADE
Quizzes	10%	75%	7.5
Module Tests	10%	40%	8.0
Home/Outside work	10%	40%	8.0
Class Participation	10%	80%	8.0
Attendance	10%	75%	7.5
Final Exam	50%	85%	42.50
Totals	100%	N/A	81.50

 **ECHOVASCULAR TECHNOLOGY**  
**PROGRAM OUTLINE**

Course Number	Course Titles	Gen. Ed. Y/N	DGR. Y/N	CLOCK HOURS						EQUIVALENT CREDIT HOURS			Total Academic Credits Awarded
				Lect.	Lab.	Practicum Externship Internship	TOTAL in class clock. Hrs.	Add'l outside clock Hrs.	TOTAL clock Hrs	Lect.	Lab.	Practicum Externship Internship	
EVT-1.1	Medical Terminology and Career Development	N	N	12.00	0.0	0.0	12.00	5.50	15.75	1.18	0.0	0.0	1.0
EVT-1.2	Medical Ethics, Medical Law and Communications Skills	N	N	8.00	0.0	0.0	8.00	5.75	11.75	0.78	0.0	0.0	0.5
EVT-1.3	General Anatomy, Physiology, and Pathophysiology	N	N	20.00	0.0	0.0	20.00	7.50	27.50	1.83	0.0	0.0	1.0
EVT-1.4	Basic Algebra, Mathematics and Doppler Physics	N	N	20.00	0.0	0.0	20.00	7.50	27.50	1.83	0.0	0.0	1.0
EVT-1.5	Scanning Techniques and Basic Patient Care	N	N	16.00	8.00	0.0	24.00	7.50	31.50	1.06	0.26	0.0	1.0
EVT-2.1	Vascular Fundamentals And Hemodynamics	N	N	42.00	0.0	0.0	42.00	18.75	60.75	2.80	0.0	0.0	2.5
EVT-2.2	Abdominal Vascularity and Diagnostic Tests	N	N	32.00	32.00	0.0	64.00	22.50	86.50	2.13	1.06	0.0	3.0
EVT-2.3	Cerebral Vascularity and Diagnostic Tests	N	N	32.00	0.0	0.0	32.00	15.00	47.00	2.13	0.0	0.0	2.0
EVT-2.4	Upper, Lower Extremities and Diagnostic Tests	N	N	32.00	32.00	0.0	64.00	22.50	86.50	2.13	1.06	0.0	3.0
EVT-3.1	Cardiac Fundamentals and Hemodynamics	N	N	16.00	16.00	0.0	32.00	11.25	43.25	1.06	0.53	0.0	1.5
EVT-3.2	Pathological Mechanism and Non-Invasive Tests	N	N	16.00	16.00	0.0	32.00	11.25	43.25	1.06	0.53	0.0	1.5
EVT-3.3	Application of Echocardiography	N	N	32.00	32.00	0.0	64.00	22.50	86.50	2.13	1.06	0.0	3.0
EVT-3.4	Disease State Identification	N	N	34.00	32.00	0.0	66.00	22.50	88.50	2.26	1.06	0.0	3.0
EVT-4.1	Externships	N	N	0.00	0.00	240.00	240.00	0.00	240.00	0.00	0.00	5.0	5.0
PROGRAM TOTALS				Total Lect. 312.0 Hrs.	Total Lab. 168.0 Hrs.	Total Practice 240.0 Hrs.	Total in Class 720.0 Hrs.	Total Outside 180.0 Hrs.	Total Clock 900.0 Hrs.	Lect. Cr. 20.79 Hrs.	Lab. Cr. 5.61 Hrs.	Practicum Cr. 5.3 Hrs.	Total Cr. 29.0 Hrs.

### School Performance Fact Sheet

#### Echovascular Technology (900 Clock Hrs/29 Semester Credit Hrs/30 weeks)

Calendar Year	Number of Students Who Began Program <sup>1</sup>	Students Available for Graduation <sup>2</sup>	Graduates <sup>3</sup>	Completion Rate <input type="checkbox"/>
<b>2013</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

2014	2	2	2	100%
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 **ECHOVASCULAR TECHNOLOGY**  
PROGRAM DESCRIPTIONS

### MODULE 1 GENERAL EDUCATION PRE-REQUISITES COURSES

General Education pre-requisites courses within a Diagnostic Medical Sonography diploma program is intended to create a well-rounded individual with good general knowledge of several areas outside the specific major field of the graduate. At American Medical Sciences Center, the general education component is made up of the following courses:

- EVT-1.1 MEDICAL TERMINOLOGY AND CAREER DEVELOPMENT
- EVT-1.2 MEDICAL ETHICS, MEDICAL LAW AND COMMUNICATIONS SKILLS
- EVT-1.3 GENERAL ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY
- EVT-1.4 BASIC ALGEBRA AND ULTRASOUND DOPPLER PHYSICS
- EVT-1.5 SCANNING TECHNIQUES AND BASIC PATIENT CARE

### MODULE 2 VASCULAR TECHNOLOGY

This module is designed for students to gain knowledge in ultrasound imaging of the upper and lower extremity. It includes a brief anatomical review of the systemic arteries and systemic veins. The students will be able to identify of extra and intra cranial cerebrovascular systems. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. Classroom instruction will be coordinated with practical activities.

- EVT- 2.1 VASCULAR FUNDAMENTALS AND HEMODYNAMICS
- EVT- 2.2 ABDOMINAL VASCULARITY AND DIAGNOSTIC TESTS
- EVT- 2.3 CEREBRAL VASCULARITY AND DIAGNOSTIC TESTS
- EVT- 2.4 UPPER, LOWER VASCULAR EXTREMITIES AND DIAGNOSTIC TESTS

### MODULE 3 CARDIAC ULTRASOUND

The purpose of this module is to explore in detail the construction and dynamics of the cardiovascular system. Topics include anatomical and physiological considerations, cardiac pumping action and its regulation, basic hemodynamics, and systemic and pulmonary circulation. Classroom instruction will be coordinated with certain lab activities. This course will prepare the student to recognize the pathological processes of the cardiovascular system.

- EVT-3.1 CARDIAC FUNDAMENTALS AND HEMODYNAMICS
- EVT- 3.2 PATHOLOGICAL MECHANISM AND NON-INVASIVE DIAGNOSTIC TESTS
- EVT- 3.3 APPLICATIONS OF ECHOCARDIOGRAPHY
- EVT- 3.4 DISEASE STATE IDENTIFICATION

### MODULE 4 CLINICAL

Students participate in a clinical externship where they will gain hands-on training. The clinical part of program provides students with actual hands-on experience providing diagnostic care to patients of all ages and stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center.

- EVT- 4.1 EXTERNSHIPS

## PROGRAM DESCRIPTIONS

**COURSE NAME:**MEDICAL TERMINOLOGY AND CAREER DEVELOPMENT

**COURSE TITLE:** EVT- 1.1

**PREREQUISITE:** NONE

**LECTURE HOURS:** 12.00

**LABORATORY HOURS:** 0.00

**TOTAL OUTSIDE HOURS** 5.50

**TOTAL CLOCK HOURS:** 15.75

**TOTAL CREDITS HOURS:** 1.0

**SUBJECTS:**

- ☒ Structure of medical words (roots, prefixes)
- ☒ Abbreviations
- ☒ Sonography specific terminology
- ☒ Preparation for job search, study skills
- ☒ The job search (resume writing, interviewing)
- ☒ Continued advancement (registries/credentials)

Students learn medical and specific sonographic terminology. This course is designed to assist the student with personal and professional development for successful employment with a concentration on developing a positive self-image, assessing competitive strengths, career expectations, learning job search techniques, in addition to written skills and current resume preparation. Additional homework assignments are given to students specific to sonographic terminology.

**COURSE NAME:** MEDICAL ETHICS, MEDICAL LAW AND COMMUNICATIONS SKILLS

**COURSE TITLE:** EVT- 1.2

**PREREQUISITE:** EVT- 1.1

**LECTURE HOURS:** 8.00

**LABORATORY HOURS:** 0.00

**TOTAL OUTSIDE HOURS** 5.75

**TOTAL CLOCK HOURS:** 11.75

**TOTAL CREDITS HOURS:** 0.5

**SUBJECTS:**

- ☒ Ethical decision-making
- ☒ Legal principles
- ☒ Patient bill of right
- ☒ Patient communications
- ☒ Staff communications, telecommunications
- ☒ Writing technical reports
- ☒ Legal issues of patient confidentiality

This course familiarizes the students with an understanding of the specific laws and regulations that impact the healthcare environment and fundamental medical ethics. Students are introduced to medical office safety, security, and emergency provisions. This course is designed to develop the student's ability to communicate effectively. Emphasis is placed upon the basic elements of workplace effectiveness. Additional homework assignments are given to students specific to medical law and communication skills.

**COURSE NAME:** GENERAL ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY

**COURSE TITLE:** EVT- 1.3

**PREREQUISITE:** EVT- 1.2

**LECTURE HOURS:** 20.00

**LABORATORY HOURS:** 0.00

**TOTAL OUTSIDE HOURS** 7.5

**TOTAL CLOCK HOURS:** 27.5

**TOTAL CREDITS HOURS:** 1.0

**SUBJECTS:**

- ☒ Cardio Systemic Circulation
- ☒ Cardio Pulmonic Circulation
- ☒ Central Nervous system
- ☒ Endocrine system
- ☒ Hematopoietic system
- ☒ Immune system

The course teaches the student the basic concept understanding the primary physiological reactions of the human body. The students will be introduced to the fundamentals of human anatomy and cardiovascular systems, physiology, pathophysiology and chemistry. This course will give the student

a comprehensive understanding of the pathological processes that may affect these systems. Additional homework assignments are given to students specific to basic concept understanding the primary physiological reactions of the human body.

PROGRAM DESCRIPTIONS (CONT.)

**COURSE NAME:** BASIC ALGEBRA,  
ULTRASOUND DOPPLER PHYSICS

**COURSE TITLE** EVT- 1.4

**PREREQUISITE** NONE

**LECTURE HOURS** 20.0

**LABORATORY HOURS** 0.00

**TOTAL OUTSIDE HOURS** 7.5

**TOTAL CLOCK HOURS** 27.5

**TOTAL CREDITS HOURS** 1.0

**SUBJECTS:**

- ☒ Basic Algebra
- ☒ Measurements, calculations, metric conversions
- ☒ Linear equation and inequalities
- ☒ Principles of motion, work and heat
- ☒ Principles of acoustic and light waves
- ☒ Principles of Ultrasound Physics
- ☒ Transducer architecture and selection
- ☒ Bio-effects, Artifacts, and safety

This course is designed to provide students with an understanding of the general principles and theories underlying algebra mathematics and fundamental physics. This course builds on the principles of linear equations, graphing, functions, rational expressions, radicals and systems of equations. Additional homework projects are given to students detailed to concept understanding of the general principles and theories underlying Ultrasound Doppler Physics.

**COURSE NAME:** SCANNING TECHNIQUES AND  
BASIC PATIENT CARE

**COURSE TITLE:** EVT- 1.5

**PREREQUISITE:** EVT- 1.3,EVT-1.4

**LECTURE HOURS:** 16.0

**LABORATORY HOURS:** 8.0

**TOTAL OUTSIDE HOURS** 7.5

**TOTAL CLOCK HOURS:** 31.5

**TOTAL CREDITS HOURS:** 1.0

**SUBJECTS:**

- ☒ Introduction to scanning methods
- ☒ Purpose and function of various scanning Techniques and patient safety
- ☒ Infection control and precaution procedures
- ☒ Principles of psychological support
- ☒ Emergency conditions and procedures
- ☒ Transfer/transportation techniques
- ☒ Legal/ethical issues

The course teaches the student the basic concept of sonographic appearance, patient position during sonographic examinations, and interpretation of sonographic characteristics. Classroom instruction will be coordinated with certain lab activities. Supplementary homework schemes are given to students thorough to concept considerate of the general principles and concepts underlying to scanning methods.

**COURSE NAME:** VASCULAR FUNDAMENTALS  
AND HEMODYNAMICS

**COURSE TITLE:** EVT- 2.1

**PREREQUISITE:** EVT- 1.5

**LECTURE HOURS:** 42.0

**LABORATORY HOURS:** 0.0

**TOTAL OUTSIDE HOURS** 18.75

**TOTAL CLOCK HOURS:** 60.75

**TOTAL CREDITS HOURS:** 2.5

**SUBJECTS:**

- ☒ Vascular Structural Principle
- ☒ Cross-Sectional Anatomy
- ☒ Vascular Hemodynamics
- ☒ Physical Principles

Emphasis will be placed on theoretical methodology of vascular structures and hemodynamics. This course will introduce the student to recognize and identify vascular arterial, venous and portal systems. The course teaches and demonstrates knowledge of the normal anatomy, anatomic variants, normal physiology and pathological conditions of the human vascular systems includes upper and lower

extremities. Cross-sectional anatomy of this structure and their appearance on the sonogram will also be discussed. Additional projects assignments are given to students specific to methodology of vascular structures and hemodynamics.

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PROGRAM DESCRIPTIONS (CONT.)

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**COURSE NAME:** ABDOMINAL VASCULARITY  
AND DIAGNOSTIC TESTS

**COURSE TITLE** EVT- 2.2  
**PREREQUISITE:** EVT- 2.1  
**LECTURE HOURS** 32.0  
**LABORATORY HOURS** 32.0  
**TOTAL OUTSIDE HOURS** 22.50  
**TOTAL CLOCK HOURS** 86.50  
**TOTAL CREDITS HOURS** 3.0

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Report Writing

This course will introduce the student to ultrasound imaging of the abdominal and pelvic vascular system. It includes a brief anatomical review of the systemic arteries, systemic veins, and portal veins. Emphasis is placed on the ability to recognize and identify lower extremities vascular systems. This course will prepare the student to recognize the pathological processes of the abdominal and pelvic vascularity. Supplementary homework assignments are given to students specific to anatomical review of the systemic vessels.

**COURSE NAME:** CEREBRAL VASCULARITY  
AND DIAGNOSTIC TESTS

**COURSE TITLE:** EVT- 2.3  
**PREREQUISITE:** EVT- 2.2  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 0.0  
**TOTAL OUTSIDE HOURS** 15.0  
**TOTAL CLOCK HOURS:** 47.0  
**TOTAL CREDITS HOURS:** 2.0

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Cross-Sectional Anatomy
- ☒ Clinical Indications
- ☒ Normal and Abnormal Conditions
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Report Writing

Course familiarizes the students with an understanding of the Trans cranial Cerebrovascular Systems. This course will prepare the student to recognize the pathological processes of the cerebrovascular vascular system. The student learns to identify and perform extra cranial carotid and vertebral artery exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Complementary homework projects are given to students specific to anatomical review of the Trans cranial Cerebrovascular Systems.

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**COURSE NAME:** UPPER, LOWER VASCULAR  
EXTREMITIES AND DIAGNOSTIC TESTS

**COURSE TITLE** EVT- 2.4  
**PREREQUISITE:** EVT- 2.3  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 32.0  
**TOTAL OUTSIDE HOURS** 22.5  
**TOTAL CLOCK HOURS:** 86.50  
**TOTAL CREDITS HOURS** 3.0

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Normal and Abnormal Conditions
- ☒ Arterial, Venous Upper Extremity Circulation
- ☒ Arterial, Venous Lower Extremity Circulation
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Report Writing

Emphasis is placed on the ability to recognize and identify upper extremities vascular systems. It includes a brief anatomical review of the systemic arteries and systemic veins. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will

prepare the student to recognize the pathological processes of the upper vascular system. Specific projects are given for homework to recognize and identify upper and lower extremities vascular systems.

PROGRAM DESCRIPTIONS (CONT.)

**COURSE NAME:**CARDIAC FUNDAMENTALS  
AND HEMODYNAMICS

**COURSE TITLE:** EVT-.3.1  
**PREREQUISITE:** EVT- 2.4  
**LECTURE HOURS:** 16.0  
**LABORATORY HOURS:** 16.0  
**TOTAL OUTSIDE HOURS** 11.25  
**TOTAL CLOCK HOURS:** 43.25  
**TOTAL CREDITS HOURS:** 1.5

**SUBJECTS:**

- ☒ Medical Cardiac Terminology
- ☒ Cardiac Anatomy and Physiology
- ☒ Electrocardiography
- ☒ Principles of Cardiac pharmacology
- ☒ ADME of Cardiac Specific Drugs
- ☒ Drugs used for Cardiac Emergency
- ☒ Imaging Techniques,

The course teaches and demonstrates knowledge of the cardiac structural anatomy. Topics include cardiac medical terminology and the metric conversions required in cardiac therapy, as well as cardiopulmonary anatomical and physiological considerations, cardiac pumping action and electro cardiology. The class teaches the student the basic concept of Sonographic appearance, and positions during examinations, and interpretation of Sonographic characteristics. The Students homework includes cardiac medical terminology cardiopulmonary anatomical and physiological considerations.

**COURSE NAME:**PATHOLOGICAL MECHANISM  
AND NON-INVASIVE DIAGNOSTIC TESTS

**COURSE TITLE:** EVT- 3.2  
**PREREQUISITE:** EVT- 3.1  
**LECTURE HOURS:** 16.0  
**LABORATORY HOURS:** 16.0  
**TOTAL OUTSIDE HOURS** 11.25  
**TOTAL CLOCK HOURS:** 43.25  
**TOTAL CREDITS HOURS:** 1.5

**SUBJECTS:**

- ☒ Structural Anatomy
- ☒ Sonographic Cross-Sectional Anatomy
- ☒ Pathology/Pathophysiology
- ☒ Clinical Indications and Therapeutic Measures
- ☒ Abnormal Conditions and Congenital Diseases
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. Cross-sectional anatomy of these structures and their appearance on the sonogram will also be discussed. This course will prepare the student to recognize the pathological processes and therapeutic measures. The student learns to identify and perform exams using duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Student learns its systemic and pulmonary circulations, basic principles of cardiac pharmacology and specific drugs.

**COURSE NAME:**APPLICATIONS OF  
ECHOCARDIOGRAPHY

**COURSE TITLE** EVT- 3.3  
**PREREQUISITE:** EVT- 3.2  
**LECTURE HOURS:** 32.0  
**LABORATORY HOURS:** 32.0  
**TOTAL OUTSIDE HOURS** 22.5  
**TOTAL CLOCK HOURS:** 86.5  
**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Principles of Flow
- ☒ Measurements and normal values
- ☒ Physical Considerations
- ☒ M-mode and 2D Echocardiography
- ☒ Assessment Techniques (Objective, Subjective)
- ☒ Imaging Techniques, Doppler Flow Pattern
- ☒ Test Procedures and Data Correlation
- ☒ Report Writing

The purpose of this course is to explore in detail the construction and dynamics of the cardiovascular system. The student learns to identify and perform Cardiac Atrial and Ventricular Hemodynamics using

duplex imaging, Duplex PW Doppler and Color Doppler with spectral analysis. Students learn to perform M-mode, and 2 Dimensional Echocardiography. Emphasis is placed on the ability to recognize and identify test procedures requirements. Additional homework assignments include performs Cardiac Atrial and Ventricular Hemodynamics.

PROGRAM DESCRIPTIONS (CONT.)

**COURSE NAME:** DISEASE  
**STATE IDENTIFICATION**

**COURSE TITLE:** EVT- 3.4

**PREREQUISITE:** EVT- 3.3

**LECTURE HOURS:** 34.0

**LABORATORY HOURS:** 32.0

**TOTAL OUTSIDE HOURS:** 22.5

**TOTAL CLOCK HOURS:** 88.5

**TOTAL CREDITS HOURS:** 3.0

**SUBJECTS:**

- ☒ Ischemic Heart and Coronary Artery Diseases
- ☒ Diseases of the Myocardium
- ☒ Acquired Valvular Disease
- ☒ Thrombi and Aneurysms
- ☒ Congenital Heart Disease
- ☒ Prosthetics Valve

This course will prepare the student to identify the pathological processes of the cardiovascular system. The following topics will be discussed: Ischemic Heart and Coronary Artery Diseases, Myocardial and Pericardial Diseases, Infective Endocarditis and Rheumatic Heart Diseases, Acquired Valvular Heart disease, Heart failure, Thrombi and Aneurysms, Pulmonary Heart Disease, Murmurs, and congenital abnormalities and Prosthetic Valves. A thorough understanding of normal cardiovascular anatomy and physiology is mandatory in order to comprehend these advanced topics. Supplementary homework preps to recognize the pathological processes of the cardiovascular system.

COURSE DESCRIPTIONS (cont.)

**COURSE NAME:** EXTERNSHIPS

**COURSE TITLE:** DMS-4.1

**PREREQUISITE:** ALL

**LECTURE HOURS:** 0.00

**TOTAL OUTSIDE HOURS:** 0.00

**PRACTICAL HOURS:** 240.0

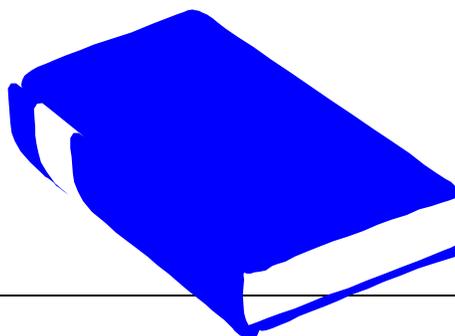
**TOTAL CLOCK HOURS:** 240.0

**TOTAL CREDITS HOURS:** 5.0

**SUBJECTS:**

- ☒ Hands on Training
- ☒ Manual Analyses
- ☒ Automated Analyses,
- ☒ Monitoring and Control Procedures
- ☒ Evaluation and Reporting

Students participate in a clinical externship where they will gain hands on training. The clinical part of program provides students with actual hand-on experience providing diagnostic care to patient of all ages, stages of disease in doctor/imaging clinics affiliated with American Medical Sciences Center. During clinical rotations, students relate theory to practice by learning to process samples, operate instruments, perform manual/automated analyses, evaluate and report test results, and monitor control procedures to assure the accuracy of data. This series of courses provides students with the opportunity to observe and perform the role of the laboratory professional in the clinical setting. There are four different rotations each student must complete.



 DESCRIPTION OF POSITIONS AND RESPONSIBILITIES

<b>NAME</b>	<b>TITLES</b>	<b>DESCRIPTION OF POSITION</b>	<b>JOB DUTIES AND RESPONSIBILITIES</b>
VARDAN KARAGEZIAN	Director	<i>The Director of the school is the chief executive officer of the company. All major school operation matters fall within the scope of the Director.</i>	➤Establishes system for all administrative functions of the school. Secures proper staffing of administrative personnel. Maintains liaison with accrediting and approval agencies. Meets regularly with management personnel including department heads. Reviews all policies and procedures.
HAIK ANTONYAN	Associate Director	<i>The Associate Director of the school is the enforcement officer of the company. All matters of the day-to-day operations of the school fall within the scope of the Associate Director.</i>	➤Coordinates and supervises all staff to ensure effective and efficient processing of students through the learning process. Oversees administrative and management functions related to all departments. Maintains liaison with all accrediting and approval agencies. Reviews all enrollment, retention and placement activities.
DENISE LUNA	Financial Aid Officer	<i>The Financial Aid Officer reports to the Associate Director and performs duties focused on school's financial Aid operations.</i>	➤Assists in the execution of duties and responsibilities of the Financial Aid clerk; also processes the documentation of new enrollments and the satisfactory progress of current students; engages in financial aid students and offers administrative assistance when needed and/or requested.
ANGELA ANDRANIKIAN	Secretary	<i>The Secretary is responsible for conducting institution's educational services.</i>	➤Assists in the execution of duties and responsibilities of the clerk; also processes the documentation of new enrollments and the satisfactory progress of current students and offers administrative assistance when needed and/or requested.
LILY SHINY LEE-MARTIN	VN Program Director	<i>The Program Director is the chief program development officer of the school. The Director is also responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Establishes academic system for all professional functions of the school. Demonstrate evidence of professional growth and academic currency. Carry out the responsibilities specific department and programs. Contribute to the College Community by participation in service activities.
MKRTICH ABRAMYAN	VN Assistant Program Director	<i>The Assistant Director of the program is the enforcement to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating.</i>	➤Demonstrate evidence of professional growth and academic currency. Carry out the responsibilities specific department and programs. Contribute to the College Community by participation in service activities.
IZABELLA ASADOURIAN	DMS/EVT Program; Director	<i>The Program Director is the chief program development officer of the school. The Director is also responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Establishes academic system for all professional functions of the school. Demonstrate evidence of professional growth and academic currency. Carry out the responsibilities specific department and programs. Contribute to the College Community by participation in service activities.
SMBAT MIKAELIAN	DMS Program; Instructor	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
GRIGOR GALADZHYAN	DMS Program; Clinical Coordinator	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
ARTHUR KOSTANYAN	EVT Program; Instructor	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
KROUP KHACHIKIAN	EVT Program; Instructor	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
MELITON PRUDENCIO	VN Program; Instructor	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
ALBINO ROMULO	VN Program; Instructor	<i>The Instructor is responsible for conducting one or more classes or components of the institution's educational services.</i>	➤Instructors are required to engage in activities, which demonstrate a pattern of academic, professional, and/or technical updating or currency.
SHANNON HAMMER	VN Program; Assistant	<i>The Assistant is responsible for conducting institution's educational services.</i>	➤Assists in the execution of duties and responsibilities of the documentation for vocational Nurse Program. Also, processes the satisfactory progress of current students and offers

 **AMSC FACULTY/STAFF**

<b>NAME</b>	<b>INSTITUTION</b>	<b>DEGREES</b>	<b>CREDENTIALS</b>
VARDAN KARAGEZIAN <i>Director/President</i>	California School of Medical Sciences, Los Angeles, Ca State University, Republic of Armenia.	M.S.	Medical Cybernetic Sonographer
HAIK ANTONYAN <i>Associate Director</i>	University of Phoenix, La Mirada, CA Rio-Hondo Community College, Whittier, CA	A.S/B.S.	Human Services Business Management
LILY SHINY LEE-MARTIN VN Program; <i>Director of Nursing</i>	Capella University L.A., CA Adventist College, Taiwan	Ed.D.	Doctor of Education Registered Nurse
MKRTICH ABRAMYAN VN Program; <i>Assistant Director of Nursing</i>	University of Phoenix Los Angeles, Ca Yerevan State Medical University Republic of Armenia.	M.S.	Registered Nurse
IZABELLA ASADOURIAN DMS/EVT Program; <i>Director</i>	AMSC College, LA CA. State University Republic of Armenia.	M.S.	Registered Sonographer
SMBAT MIKAELIAN DMS Program; <i>Instructor</i>	Yerevan State Medical University Republic of Armenia.	M.S.	Registered Sonographer
GRIGOR GALADZHIAN DMS Lab; <i>Instructor</i>	Los Angeles City College AMSC College LA., CA.	A.A.	Registered Sonographer
ARTHUR KOSTANYAN EVT Program; <i>Instructor</i>	Yerevan State University School of Medicine. Republic of Armenia	B.S.	Registered Sonographer
MELITON PRUDENCIO VN Program; <i>Instructor</i>	St.Jude College Manila, Philippines	B.S.	Registered Nurse
ALBINO ROMULO VN Program <i>Instructor</i>	Preferred College of Nursing Los Angeles, Ca University of Phoenix La Mirada, Ca	B.S	Licensed Vocational Nurse
SHANNON HAMMER VN Program; <i>Assistant</i>	Glendale Career College Glendale, Ca	Diploma	Licensed Vocational Nurse

 **MEMBER OF ADVISORY BOARD**

HRIPSIME CHILIAN	Public Member, RDMS (Abdomen) RVT, RDCS
PETER ATOYAN	Public Member LVN
SIRANUSH KARAPETYAN	Public Member RDMS (Gynecology), RVT
VALERA MARTIROSYAN	Public Member ARRT

 **CATALOG REVISED DATES**

COVER DATES	REVISION DATES
2010 (01/01/2010-12/31/2010)	09/21/2010

2011 (01/01/2011-12/31/2011)	
2012 (01/01/2012-12/31/2012)	03/01/2012
2013 (01/01/2013-12/31/2013)	11/01/2013
2014 (01/01/2014-12/31/2014)	04/09/2014
2015(01/01/2015-12/31/2015)	10/27/2015