

## NATIONAL SCHOOL OF TECHNOLOGY, INC.

A sure thing in an unsure world.

## 2001 CATALOG

Volume XXVI Published December 2000 In October 1991, National School of Technology acquired Ward Stone College, located in Kendall, Florida. Ward Stone College's name was changed in December 1996 to National School of Technology, Inc. The Kendall campus is organized as a separate corporation and is a wholly owned subsidiary of National School of Technology, Inc.

#### STATEMENT OF OWNERSHIP

National School of Technology, Inc. is owned and controlled by Martin Knobel, C.E.O. The corporate offices are located at 12000 Biscayne Boulevard, Suite 302, North Miami, Florida, 33181. The telephone number is (305) 893-0005.

#### **FACILITIES**

National School of Technology consists of classrooms, medical and computer laboratories, school offices and financial aid offices. The medical classrooms and labs contain equipment commonly found in the medical environment, such as ECG machines, microscopes, phlebotomy equipment, examining tables, blood cell counters, ultrasonography and echocardiography equipment as well as other types of diagnostic equipment. The microcomputer labs are equipped with IBM compatible computers to allow students to receive hands-on training. The surgical laboratories contain surgical instruments, trays, scrub stations, anatomical mannequins, drapes, etc. for practicing techniques. The massage therapy clinical laboratory contains massage tables and chairs with accessories, adjustable face cradles, massage stools and hydrotherapy equipment. A student lounge, equipped with vending machines for food, drinks and snacks, as well as a microwave oven, is also available. All students have access to the campus career and learning resource center which contains reference materials for student use. The campuses are located convenient to public transportation, shopping centers, restaurants and banks. The facilities are accessible to people with disabilities.

#### **LICENSURE**

The schools are licensed by the State Board of Nonpublic Career Education, Department of Education, 325 West Gaines Street, Tallahassee, FL, 32399-0400, (850) 488-9504. The campuses' license numbers are as follows: N. Miami Beach Campus holds License #599; Hialeah Campus holds License #747; and Kendall Campus holds license #1420.

National School of Technology is recognized as an approved Massage Therapy school by the Florida Board of Massage Therapy, Department of Health.



Congratulations for the decision you have made to start career training at National School of Technology!

For over 23 years, National School of Technology has been providing quality education to students seeking careers in the medical and computer fields. Our programs are geared to provide you with the skills necessary to meet the demands of today's fast paced, competitive and technological job

National School's faculty consists of professionals with extensive experience in each specialized field - our instructors practice what they teach. A supportive classroom environment allows for personalized instruction and individual attention. Classrooms house the high-tech equipment, creating a realistic work environment for practical hands-on training. Our curriculum is career-oriented, and is enhanced by special projects or internship programs designed to prepare you for work in your chosen field.

Our objective is to offer you the training necessary to realize your career goals. We look forward to making your plan to enter National School of Technology one of the best decisions of your life.

Sincerely,

NATIONAL SCHOOL OF TECHNOLOGY

Martin troobel Martin Knobel

Chief Executive Officer

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### **Medical Administration Division**

### MEDICAL CODING SPECIALIST

Diploma • 900 Clock Hours

#### PROGRAM OBJECTIVE:

This program prepares students to analyze medical records and assign codes to medical conditions, diagnoses and procedures using a complex healthcare coding and classification system. Accurate coding is necessary for research and statistical data, as well as to determine reimbursement of healthcare services. Graduates meet the educational requirements as may be applicable to take the following credentialing examinations (see Professional/Credentialing Organizations and Examinations section of catalog): Certified Procedural Coder and Certified Procedural Coder-Hospital.

#### **CAREER OPPORTUNITIES:**

Due to the high demand for qualified coders, graduates are offered entry-level employment in various challenging and rewarding environments. Medical coding specialists may be employed in physicians' offices, hospitals, clinics, insurance companies, medical billing companies and medical financial consulting companies.

Bloc	ck 1			Block 3
MA	1110	Medical Terminology	15	MC 1310 Introduction to Insurance 10
	1112	Human Body Organization,		MC 1312 Coding Case Studies II 40
		Cells, Tissues & Organs	15	MC 1314 Microcomputer Fundamentals 10
MA	1114	Integumentary Systems	15	MC 1316 Introduction to Hospital
	1116	Skeletal System	20	Billing 15
	1118	Muscular Śystem	20	MC 1317 Hospital Billing & Claims
	1120	The Nervous System &		Processing 20
		Special Senses	15	MC 1318 Diagnostic Related
MA	1122	Circulatory System	20	Groups (DRG'S) 5
MA	1124	Lymphatic System	15	MC 1320 Automated Claims
MA	1126	Respiratory System	15	Processing Lab 95
MA	1128	Digestive System	20	MS 1114 HIV/AIDS5
	1130	Genitourinary & Reproductive		200
		System	15	
MA	1132	Endocrine System	15	Indamahib
		,	200	<u>Internship</u>
Bloc	ck 2			MC 1410 Internship or Project 300
MA	1210	Medical Practices and		
1,11	1210	Specialties	5	
МА	1212	Psychology of Patient Care	_	TOTAL CLOCK HOURS 900
1.11	1212	- Legal & Ethical Issues	10	9 months days/12 months evenings
MA	1214	Medical Office Management	50	months days, 12 months evenings
MA	1216	Medical Records Coding		•
		Management	70	
MA	1218	Coding Case Studies I	15	
MA	1220	Practical Skills Lab	50	
			200	

### **Medical Practice Division**

#### MEDICAL ASSISTANT

Diploma • 900 Clock Hours

#### PROGRAM OBJECTIVE:

This contemporary training program is designed to teach students the skills necessary for employment in the modern medical facility. A qualified medical assistant is capable of performing a wide range of duties, with a variety of technical detail; thus helping the physician in many administrative and clinical situations. Training in medical ethics and professional etiquette, as well as basic office procedures, are taught as required elements of the program. Graduates meet the educational requirements as may be applicable to take the following credentialing examinations (see Professional/Credentialing Organizations and Examinations section of catalog): Registered Medical Assistant and Certified Phlebotomy Technician.

#### **CAREER OPPORTUNITIES:**

Medical assistants enjoy secure, prestigious positions. Graduates work in entry-level positions with one or more physicians in private practices, clinics, hospitals, laboratories and other health facilities.

Bloc	ck 1			Block 3
MA	1110	Medical Terminology	15	MS 1114 HIV/AIDS 5
MA	1112	Human Body Organization,		MA 1310 Organization of the Clinical
		Cells Tissues & Organs	15	Lab / Infection Control 10
MA	1114	Integumentary System	15	MA 1312 Introduction to
MA	1116	Skeletal System	20	Electrocardiography 15
MA	1118	Muscular Śystem	20	MA 1314 Pharmacology & Drug Therapy 30
MA	1120	Nervous System & Special		MA 1316 Phlebotomy Techniques 60
		Senses	15	MA 1318 Hematology 25
MA	1122	Circulatory System	20	MA 1320 Basic Urinalysis 20
MA	1124	Lymphatic System	15	MA 1322 Chemistry Testing 10
MA	1126	Respiratory System	15	MA 1324 Cardiopulmonary Resuscitation 15
MA	1128	Digestive System	20	MA 1326 Phlebotomy Technician
MA	1130	Genitourinary & Reproductive		Certification Exam Review 10
		System	15	200
MA	1132	Endocrine System	<u>15</u> 200	
		,	200	Internship
Bloc	ck 2			MA 1600 Internship or Project 300
MA	1210	Medical Practices & Specialties	 5	
	1212	Psychology of Patient Care -		
		Legal & Ethical Issues	10	TOTAL CLOCK HOURS 900
MA	1214	Medical Office Management	50	
MA	1216	Medical Records / Coding		9 months days/12 months evenings
		Management	70	
MA	1218	Coding Case Studies I	15	
MA	1220	Practical Skills Lab	50_	
			200	

### **Medical Practice Division**

#### PHARMACY TECHNICIAN

Specialized Associate Degree • 1200 Clock Hours

#### PROGRAM OBJECTIVE:

This program prepares students to work in a pharmacy under the direct supervision of a licensed pharmacist. Through acquisition of medical knowledge and specific pharmaceutical techniques, graduates will be able to assist the pharmacist in the preparation and dispensing of medications, maintenance of patient records, packaging and labeling of orders, and compounding and mixing of sterile products. Graduates meet the educational requirements as may be applicable to take the following credentialing examination (see Professional/Credentialing Organizations and Examinations section of catalog): Certified Pharmacy Technician.

#### **CAREER OPPORTUNITIES:**

Graduates are eligible to assume entry-level positions assisting the pharmacist in hospitals, home infusion, clinics, and community pharmacies.

Blo	ck 1		
CV	1106	Medical Terminology	20
CV	1110	Cellular Basis of Anatomy &	
		Physiology	20
CV	1112	Musculoskeletal System	15
CV	1114	Nervous System	20
CV	1116	Respiratory System	15
CV	1118	Gastrointestinal System	20
CV	1120	Genitourinary System	20
CV	1122	Endocrine System	15
CV	1124	Reproductive System	20
CV	1126	Cardiac Anatomy & Physiology	55
CV	1128	Vascular Anatomy & Physiology	45
MS	1114	HIV/AIDS	5
CV	1132	Cardiopulmonary Resuscitation	15
CV	1134	Basic Chemistry	<u>15</u>
			300
$\underline{Blo}$	ck 2		
PT	1202	Pharmacy Law	40
PT	1204	Institutional & Community	
	·	Pharmacy Systems	40
PT	1206	Pharmacy Mathematics	120
PT	1208	Inventory Management & Cost	
		Control	40
PT	1210	Computer Applications in	
		Pharmacy Practice	60
		,	300

Blo	ck 3		
PT	1300	Pharmacology & Drug	
		Classification	160
PT	1302	Dosage Forms	20
PT	1304	Intravenous Admixtures & Asep	otic
		Techniques	90
PT	1306	Interpretation of Medication	
		Orders & Prescriptions	30
		•	300
Inte	ernshi	ф	
PT	1400	Internship or Project	300

### **Medical Practice Division**

### MASSAGE THERAPIST

Diploma • 600 Clock Hours

#### PROGRAM OBJECTIVE:

This program prepares graduates to take the Florida state examination to become Licensed Massage Therapists (LMT) and meets the academic requirements of the Florida Board of Massage Therapy (see Professional/Credentialing Organizations and Examinations section of catalog). Graduates are also eligible to become Nationally Certified in Therapeutic Massage and Bodywork (NCTMB) upon passing the examination. According to the American Massage Therapy Association, this certification represents the highest professional credential in the field and incorporates ethics, eligibility, practice and competency testing. The curriculum includes a strong core of theory, with emphasis on practical skills development in a supervised clinical setting. Anatomy and physiology courses are followed by instruction in therapeutic massage principles. Training in hydrotherapy and allied therapeutic modalities among other essential subjects, provides students with an excellent foundation for entry into the natural health field.

(<u>Note</u>: Students must successfully complete <u>all</u> program hours and requirements in order to receive a diploma and be eligible to apply for the state licensing examination. Graduates <u>must</u> be licensed to practice massage therapy in Florida and many other states.)

#### **CAREER OPPORTUNITIES:**

Employment opportunities for entry-level licensed massage therapists exist in a broad range of settings such as: resort hotels, health spas, fitness centers, massage therapy clinics, chiropractic offices, physical therapy clinics, hospitals and wellness centers, cruise lines and sports settings. Additionally, many therapists develop their own private massage practices, and/or diversify their employment by working in a combination of these settings.

Bloc	ck I		Bloc	CK 3_	
MS	1110	Human Anatomy & Physiology 175	MS	1310	Theory & Prac
MS	1112	Introduction to Clinical Pathology 20	MS	1312	Allied Therape
MS	1114	HIV/AIDS 5	MS	1314	Allied Therape
.710	1111	200			Clinical Practic
Dl.	ck 2	200	MS	1316	Integrated Mas
Dio	K Z				Clinical Practi
N (C)	1210	Dela della af Thomasontia	MS	1318	Florida Statute
MS	1210	Principles of Therapeutic  Massage, Assessment & Practice 100			History of Mas
	1212	1.1000080, 1.200001110110	MS	1319	Business Princi
MS	1212	Therapeutic Massage Applications	MS	1320	Cardiopulmona
٠		Clinical Practicum I 100 200			& First Aid
		200			
			TO	TAL C	LOCK HOUR

Blo	ck 3		
MS	1310	Theory & Practice of Hydrothera	ру 15
MS	1312	Allied Therapeutic Modalities	50
MS	1314	Allied Therapeutic Modalities-	
		Clinical Practicum II	50
MS	1316	Integrated Massage Applications	
		Clinical Practicum III	50
MS	1318	Florida Statutes/Rules &	
		History of Massage	10
MS	1319	Business Principles & Ethics	10
MS	1320	Cardiopulmonary Resuscitation	
		& First Aid	15
			200
TO	TAL C	LOCK HOURS	600
6 m	onths d	ays/8 months evenings	

## **Surgical Technology Division**

#### SURGICAL TECHNOLOGIST

Specialized Associate Degree • 1200 Clock Hours

#### PROGRAM OBJECTIVE:

This program prepares individuals to perform the services of a surgical technologist which includes such duties as passing instruments to surgeons during surgical procedures, checking supplies and equipment required for surgical procedures, setting up sterile tables with instruments and other equipment needed for procedures, draping sterile fields, and other similar activities. Graduates meet the educational requirements as may be applicable to take the following credentialing examination (see Professional/Credentialing Organizations and Examinations section of catalog): Certified Surgical Technologist.

(Note: Each block of classroom instruction is a prerequisite to the following block and must be sequentially completed as described in the program outline below).

#### **CAREER OPPORTUNITIES:**

Graduates are eligible for employment in entry-level positions as surgical technologists, assisting surgeons in hospital surgical suites, out-patient surgical centers, private physicians' offices and other clinical areas. The surgical technologist may be assigned other functions as permitted by the hospital and/or employer policy.

Bloc	ck 1			ST	1218	Pharmacology	30
МА	1110	Medical Terminology	15	ST	1220	Cardiopulmonary Resuscitation	15
MA		Human Body Organization,	1.0	ST	1222	Computer Concepts	20
1411 1	1114	Cells, Tissues & Organs	15	ST	1224	Introduction to Surgical	4 ~
MA	1114	Integumentary System	15			Technology	45
MA	1116	Skeletal System	20			4	200
MA	1118	Muscular System	20	73.7	1 0		
MA	1120	Nervous System & Special Senses	15	Blo	<u>ck 3                                    </u>		
MA	1122	Circulatory System	20	ST	1312	Surgical Techniques & Procedures	50
MA	1124	Lymphatic System	15	ST	1314	Surgical Specialties I -	
MA	1126	Respiratory System	15		,	General, OB/GYN, Plastics &	
MA	1128	Digestive System	20			Orthopedics	50
MA		Genitourinary & Reproductive		ST	1316	Surgical Specialties II -	
****		System	15			Ophthalmology, ENT & Urology	50
MA	1132	Endocrine System	15	ST	1318	Surgical Specialties III -	
			200			Cardiovascular, Thoracic &	
						Neuro	50
							200
Bloc	k 2						
MS	1114	HIV/AIDS	 5	<u>Clir</u>	<u> rical l</u>	Practicum	· · · · · ·
ST	1210	Microbiology	35				
ST	1212	Patient Psychology	10	ST	1410	Clinical Practicum	600
ST	1214	Legal Aspects of Medicine &	10				
31	1214	Professional Ethics	10				
ST	1216	Mathematics Fundamentals &	10	TO	TAL C	LOCK HOURS 12	200
01	1210	Metric System	30		nonths		
		MICHIC OYSICHI	50			<i>j</i>	

# Diagnostic Medical Technology Division Upper-Division Program

#### ULTRASOUND TECHNOLOGIST

Specialized Associate Degree • 1200 Clock Hours

#### PROGRAM OBJECTIVE:

This program provides students with the foundation to perform abdominal and OB/GYN diagnostic examinations through the acquisition of medical knowledge and techniques in ultrasound. Graduates meet the educational requirements as may be applicable to take the physics and instrumentation portion of the Registered Diagnostic Medical Sonographer and Registered Vascular Technologist credentialing examinations. Additional clinical experience or degrees are required to sit for the requisite specialty exams to obtain the RDMS and RVT credentials. Graduates also meet the educational requirements as may be applicable to take the Registered Vascular Specialist exam (see Professional/Credentialing Organizations and Examinations section of catalog).

#### **CAREER OPPORTUNITIES:**

Because of extensive training, sonographers are capable of assuming entry-level positions in a variety of clinical environments including physicians' private practices, clinics, diagnostic centers, and mobile diagnostic units.

<u>Pre-requisite:</u> Cardiovascular technologist program or equivalent (see Statement of Application to Upper Division Programs)

-Blo	ck 1			US	1218	Embryology	25
LIC	1110	DI		US	1220	First Trimester: Normal &	- ^
US	1110	Physics of Ultrasound &	50			Abnormal Fetal Anatomy	50
1.10	1112	Instrumentation	50	US	1222	Second Trimester: Normal &	
US	1112	Cross Sectional & Sagital Anatomy	25			Abnormal Fetal Anatomy	50
US	1114	Liver, Gall Bladder, Pancreas,	450	US	1224	Third Trimester: Normal &	
		, , <u>L</u>	150			Abnormal Fetal Anatomy	50
US	1116	Renal System	75	US	1226	Ultrasound Measurements,	
US	1118	Adrenal Gland & Retroperitoneum				Biophysical Profile & Multiple	
US	1120	Vascular System	75			Fetuses	75
US	1122	Thyroid & Parathyroid Glands	15	US	1228	Incompetent Cervix, Placental	
US	1124	Mammary Gland	15			Abnormalities & Doppler	
US	1126	Scrotum & Prostate Gland	20			Assessment of Pregnancy	50
			450			,	450
Blo	ck 2			Lat	a h	*h	
US	1210	Anatomy of the Female Pelvis		17111	<u>ernsh</u>	<u></u>	
US		Analomy of the remaie reivis					
	1210		40	T 10	1210	T . 1 . T	200
TIC		& Scanning Techniques	40 15	US	1310	Internship or Project	300
US	1212	& Scanning Techniques Pelvic Inflammatory Diseases	40 15	US	1310	Internship or Project	300
US US		& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the		US	1310	Internship or Project	300
	1212	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign	15			- ,	
US	1212 1214	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign Diseases of the Vagina		TO"	ΓAL C	LOCK HOURS	300 1200
	1212	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign Diseases of the Vagina Malignant Diseases of the Uterus	15	TO"	ΓAL C	- ,	
US	1212 1214	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign Diseases of the Vagina Malignant Diseases of the Uterus & Cervix/Benign Masses,	15	TO"	ΓAL C	LOCK HOURS	
US	1212 1214	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign Diseases of the Vagina Malignant Diseases of the Uterus & Cervix/Benign Masses, Malignant Masses of the Ovaries,	20	TO"	ΓAL C	LOCK HOURS	
US	1212 1214	& Scanning Techniques Pelvic Inflammatory Diseases Congenital Anomalies of the Female Genital Tract/Benign Diseases of the Vagina Malignant Diseases of the Uterus & Cervix/Benign Masses,	20	TO"	ΓAL C	LOCK HOURS	

## GENERAL INFORMATION

#### **CLASS SIZE**

Class size averages between 15 and 30 students. Medical laboratory class size usually will not exceed 20 students, allowing for personal attention and individualized instruction.

#### EQUAL OPPORTUNITY STATEMENT

National School does not discriminate in the admission or recruitment of its students. The financial aid program is administered free from discrimination as specified by federal laws. National School of Technology is an equal opportunity employer.

#### **HOURS OF OPERATION**

The school is open from 8:00 a.m. to 11:00 p.m., Monday through Thursday; and from 8:00 a.m. to 4:00 p.m. on Friday.

#### RULES AND REGULATIONS

Students must attend all classes regularly and arrive punctually. In the event of illness or inability to attend, the student must notify the school in writing, presenting a valid and verifiable excuse. Students must arrive to class at the scheduled times and return to class immediately after all breaks and lunch periods, or be considered tardy. Tardiness is defined as arrival to class 15 minutes after the scheduled class time. Three tardies are considered as one absence. Students may be withdrawn when absences and tardiness constitute more than 20 percent of total class hours for a block of instruction. Students enrolled in the surgical technologist program may be withdrawn when absences and tardiness constitute more than 7.5 percent of total class hours for a block of instruction (equivalent to 3 absences per block). Students must make up lost instruction time to the satisfaction of the instructor. Habitual tardiness shall be cause for termination.

A student receiving VA educational benefits will be terminated for VA pay purposes if he/she has three (3) unexcused absences in any 30-day period. The benefits may be reinstated after one grading period if the school

determines that the student's attendance problem has been resolved.

Students may request a leave of absence due to special circumstances. The following conditions must be met for an approved leave of absence to be granted:

- 1) The student must submit a written request for the leave of absence to the registrar;
- 2) a leave of absence may be granted for up to 60 days;
- 3) the leave of absence may be extended when the next scheduled class start exceeds the 60 days; however, in no event may a leave of absence exceed six months; and
- 4) leaves of absence are limited to one leave in any 12-month period of enrollment. By exception, an additional leave of absence may be granted for a maximum of 30 days providing the total of six months is not exceeded and the additional leave is for unforeseen circumstances.

A student who takes an approved leave of absence is considered enrolled and repayment of Federal student loans remains on deferred status. A student who does not return from an approved leave as scheduled, will enter repayment of any Federal student loans six-months after the last date attended prior to the start of the leave of absence.

If a student takes a leave of absence that is not approved, the student is considered to have withdrawn from the school and must apply for re-admission in accordance with the school's policies. In extreme cases, a student may be granted an approved leave of absence upon return to school for documented circumstances that prevented the submission of a written request prior to the start of the leave.

The student lounge is open for use during specified lunch and break periods. This is the only area in which students may have food or beverages. Smoking is not permitted in the facility.

Public telephones are located in the student lounge. Telephones within the school offices are for school use only. Incoming calls for students will be accepted only in cases of extreme emergency.

### STUDENT SERVICES

#### JOB PLACEMENT ASSISTANCE & CAREER CENTER

The career development department helps graduates find employment in the fields for which they have been trained. Employment advisement, including resume preparation and interviewing tips, is available. By assisting students with part-time employment, internships and job placement services for graduates, the career development staff makes every effort to secure positions for graduates. National School is not permitted by law to guarantee employment. All programs are designed to prepare graduates for entry-level positions.

A career center, including computer stations with Internet access, printers, fax machines, and other resources, is available at each campus to facilitate student and graduate job search activities.

#### **TUTORING**

Tutoring services are available to assist students who may experience academic difficulties. Sessions are scheduled at mutually agreed upon hours between the students and faculty. This service is offered at no additional cost.

#### **COUNSELING**

Students may be referred to counseling resources in the community by faculty or staff of the school.

#### CPR/FIRST AID CLASSES

Cardiopulmonary resuscitation (CPR) and first aid classes are held three to six times a year at the school for medically-related programs. CPR certification is awarded upon completion.

#### GRADUATION

Upon successful completion of all prescribed subjects of instruction with a cumulative grade average of 77 percent or better, demonstrating the ability to perform all required competencies, satisfaction of all financial obligations to the

school and an exit interview, the student will be awarded a credential as stated in the catalog program information. Students may participate in the graduation ceremony and will be eligible for placement assistance, providing all graduation requirements have been met.

#### **INSURANCE**

Each medical student is provided professional liability insurance at no extra charge, while on approved internships, practica and during classroom training exercises.

#### LEARNING RESOURCE CENTER

A library of professional reference books and videos are available for student use.

#### PHOTO IDENTIFICATION BADGES

For security purposes, all students are required to wear a photo identification badge. This badge is issued by the school and is free of charge. Lost badges must be replaced and cost \$5.

#### COMMUNITY SERVICE AND AWARDS

National School of Technology recognizes the importance of community service. As a part of the technical training, NST will endeavor to instill a feeling of responsibility towards the community in its students and encourage them to participate as volunteers in various community projects.

National School participates in health fairs and sponsors blood drives in conjunction with the American Red Cross several times a year. In recognition of its efforts and accomplishments in service to the community, National School has received several awards and citations. Mayors of Metro-Dade County, the City of Miami, the City of North Miami Beach and the City of Hialeah have all issued proclamations honoring National School for its community service.

#### REFRESHER COURSES

Refresher courses are available to graduates for the cost of materials and textbooks if needed.

State of Florida currently accepts the national certification exam offered by the NCBTMB as the exam for state licensure. Candidates complete two applications with the NCBTMB, one for national certification and one for state licensure by the Florida Department of Health, Board of Massage Therapy. The combined costs are approximately \$345.

Certified Surgical Technologist (CST) Exam: This exam is offered monthly by the Liaison Council on Certification for the Surgical Technologist. The exam is administered nationwide, including a local Miami test site.

Certified Pharmacy Technician (CPhT) Exam: This exam is offered three times a year in March, July and November by the Pharmacy Technician Certification Board (PTCB). The exam is administered nationwide, including a local Miami test site.

Nursing Assistant Certification (CNA) Exam: This exam is offered weekly by the National Council of State Boards of Nursing. This organization is responsible for the development and administration of the Nurses Aide Competency Evaluation Program (NACEP). This exam is administered nationwide including a local Miami test site.

Certified Procedural Coder (CPC) Exam: This exam is offered annually by the American Academy of Procedural Coders (AAPC). The Certified Procedural Coder - Hospital (CPC-H) exam is also offered by AAPC. These exams are administered nationwide, including a local test site. Substantial postgraduate practical experience is advised prior to taking either credentialing examination.

Certified Medical Transcriptionist (CMT) Exam:
The Medical Transcriptionist Certification
Program (MTCP) core certification exam is offered
year-round at various local and nationwide exam
sites. Schedules vary by test center. MTCP offers a
voluntary two-part certification exam to individuals
who wish to become certified medical transcriptionists (CMT's). The CMT credential is granted
upon successful completion of both Parts I and II of
the exam. Certification is valid for three years.

Basic X-Ray Machine Operator (BXMO) Exam:

This licensing exam is developed by the American Registry of Radiologic Technologists (ARRT) and is administered by the Florida Department of Health and Rehabilitative Services. The exam is offered in South Florida during the months of March, July and October.

### Registered Cardiovascular Technologist Specialty Exams:

- Registered Cardiac Sonographer (RCS) Exam
- Registered Vascular Specialist (RVS) Exam

The School is a site for the registry examinations offered by Cardiovascular Credentialing International (CCI). These exams are given twice a year in March and September. (In order to be eligible for these professional credentials, examinees must also have formal education in the specialty and have <u>passed</u> the Basic Cardiovascular Science Exam).

Registered Diagnostic Medical Sonographer (RDMS) Exam

Registered Diagnostic Cardiac Sonographer (RDCS) Exam

Registered Vascular Technologist (RVT) Exam

These credentialing exams are offered by the American Registry of Diagnostic Medical Sonographers (ARDMS). These exams are administered locally and nationally throughout the year as computer or written exams Prior to application for the specialty exam, educational and clinical prerequisites may need to be obtained (See examination application booklet for more information). Postgraduate practical experience is recommended prior to taking any of the specialty examinations.

### APPLICATION PROCEDURES FOR INTERNATIONAL STUDENTS

National School of Technology is authorized by the Immigration and Naturalization Service (INS) to issue the I-20 form. When students apply to NST from outside the United States, they must, in addition to submitting a School Application, submit the following material before an I-20 form can be issued.

- 1. Evidence of High School diploma or recognized equivalent.
- 2. Foreign graduates applying directly to an upper-division program must provide authenticated transcripts from other colleges or universities attended. The transcript must be accompanied by a certified translation in English if necessary, and contain the following:
  - A. Subjects studied
  - B. Dates attended
  - C. Grades awarded
  - D. Explanation of the grading scale
  - E. A statement at the end of each year stating that the student was promoted to the next level
- 3. Evidence of Financial Support -

The international student is required by the Immigration and Naturalization Service to satisfy the local U.S. Consulate that he or she will not need to seek employment while attending school in the United States. The student must submit a current bank statement (within the last 6 months) or government sponsorship letter guaranteeing payment for tuition, fees, books, housing, personal expenses and, where appropriate, medical expenses. If the applicant is not considered financially independent, he or she is required to have a financially independent individual fill out an Affidavit of Support Form. This form is included with the international enrollment application, can be obtained at the local immigration office or local consulate.

4. Evidence of English Proficiency - NST requires satisfactory evidence of mastery and command of the English language from all international students whose native language is not English. Such evidence may be one of the following:

- A. Test of English as a Foreign Language (TOEFL)
- B. Test of English as a Second Language (ESL)
- C. Evidence of English Language proficiency course completion
- 5. Processing Fee A \$150 (U.S.) processing fee must be submitted with the first application for admission. This non-refundable fee is in addition to the published program charges.

### IMPORTANT INTERNATIONAL STUDENT VISA INFORMATION

- I. International applicants are required to comply with all admissions requirements as stated in the catalog before they will be admitted to National School of Technology.
- II. Admitted students should arrive in the United States and Miami community approximately two weeks prior to the first term of enrollment. An academic calendar gives specific dates and activities. Early arrival is necessary so that the student may locate housing, provide a local address to the school, participate in a new student orientation, seek advisement and register into a program.
- III. The school does not provide housing, however assistance is available to support and guide the students efforts. Two to three months rent in advance may be required for housing in the community. Students must have sufficient funds to cover all expenses while in the United States.
- IV. Students without sufficient funds will not be permitted to register for a program until the required funds are available.
- V. International students on visas are normally admitted to the United States for the entire time estimated by the school for the student to complete his or her approved program of study. International visa students must fulfill the following conditions:
  - a) Pursue a full course of study at the educational institution they are authorized to attend.

Administration Educational Assistance program must complete a supervised internship. Projects may not be substituted for internship attendance. This is a requirement for graduation. All internships and clinical practica are graded by the program officials and are part of the student's final average. Each student is required to demonstrate the ability to correctly perform all required competencies in order to graduate and receive a credential.

## APPLICATION TO UPPER-DIVISION PROGRAMS

Students desiring admission to upper division programs must submit an application to the Admissions Screening Committee. In order for the application to be favorably considered, the student must be recommended by the faculty and program coordinator and/or director. These recommendations are based upon consideration of student performance in meeting the established criteria, which include strong academic performance, positive affective behavioral traits, and above average attendance, among others. The specific criteria are available to all students through their program coordinator or director.

#### DIAGNOSTIC CARDIAC SONOGRAPHER PROGRAM ADVANCEMENT CONDITIONS & CONSIDERATIONS

Students enrolled in the diagnostic cardiac sonographer program must satisfactorily complete academic, behavioral and practical requirements of the first block of didactic instruction prior to advancing to the clinical practicum. Sonography clinical assignments are subject to the availability of sufficient clinical sites to accommodate the number of entering students. Priorities for determining clinical assignments are at the sole discretion of the program administration after considering any special circumstances and the availability of appropriate clinical resources. Students may occasionally be required to take a brief administrative leave while awaiting the availability of a clinical opening. Students requiring remediation must successfully complete a remediation plan based upon a schedule prepared by the program administration.

If a student falls below the criteria listed above, consultation with a school official will be scheduled. The student will also receive written notice, placing the student on probationary status for one block of instruction, during which the Title IV funds may be disbursed. At the end of the probationary period, if the student has not satisfied the specified requirements, financial assistance checks will be withheld and VA benefits terminated. The student will be provided the opportunity to repeat failed courses prior to termination from the program. Students meeting the specified requirement at the end of the probationary period will be removed from probationary status. Students may appeal probation decisions to the campus director, in writing, within three days.

A student whose VA educational benefits have been terminated for unsatisfactory progress may petition to have the benefits restored after one grading period. The school may reinstate the benefits after it determines that the student has a reasonable chance of satisfactorily completing the program within the required time frame.

Students whose training has been interrupted for academic reasons may be reinstated with the following class by making application directly to the registrar. Students who have been administratively withdrawn from a program may apply for reinstatement by making written application to the campus director. The administration will review these applications and render a decision. Appeals regarding these decisions will follow the school's appeals procedure. Administrative decisions rendered on appeals are final.

## INCOMPLETES, WITHDRAWALS, REPETITIONS & REMEDIAL WORK

Students with course incompletes, withdrawals, repetitions, and those doing remedial work are eligible to continue receiving financial aid if the following criteria are met:

- A. The student is otherwise making satisfactory progress; and
- B. the time required to make up and complete course work is within the program time frame.

Students with incomplete courses will receive written notice and are required to make up any incomplete assignments or examinations within one week of such notice in order to receive credit. Students with-drawing from a course prior to the midpoint of an instructional block will not

receive a grade for the course. Grades assigned for repeated courses will replace the unsatisfactory grades for the same courses previously attempted. Students who withdraw from a program and subsequently re-enter are subject to the tuition and fees in effect at the time of re-entry.

Evaluation for satisfactory progress will take place at the end of each block of instruction.

#### MAXIMUM TIME FRAME

To remain eligible for federal funds, financial aid students must complete their program within a specified time frame. All programs must be completed within 1.5 times the normal duration of time required to complete the program. Veterans must complete the program within the specified time frame of the program.

#### REFUND POLICY

CANCELLATION: If the School does not accept a student, a full refund of all monies paid will be issued. The agreement will be canceled and the School will refund all monies paid if a written notice of cancellation is received within three business days of signing the enrollment agreement. After acceptance by the School and before the start of classes, the School will refund all monies paid less an administrative fee of not more than \$150.00. Students who have not visited the School facility prior to enrollment may withdraw without penalty within three business days following either attendance at a regularly scheduled orientation or following a tour of the School facilities and inspection of the equipment.

WITHDRAWAL: Students who withdraw after starting classes and within the first 60% of the payment or enrollment period will have a refund made of a portion of the tuition & fees charged for the period. After the 60% point, the student is responsible for payment of 100% of the tuition & fees for the applicable period. The refund will be the difference between the tuition & fees charged for the period and the

- 1. Title IV SFA funds earned and disbursed, or scheduled to be disbursed,\* for the payment period during which withdrawal occurs; PLUS
- 2. The total of payments due under contractual arrangements with the School based upon the period of enrollment (program length).

## COURSE DESCRIPTIONS

### CS 1110 INTRODUCTION TO CROSS-SECTIONAL ECHO ANATOMY

15 HOURS

A study of the parts of the heart as seen in different echocardiographic views using parasternal, apical, subcostal, and suprasternal windows.

### CS 1112 INTRODUCTION TO NORMAL 2-DIMENSIONAL ECHO

**40 HOURS** 

A discussion of the technique for obtaining the different echocardiographic views of the heart with emphasis on getting the appropriate plane, achieving transducer control, and eliminating artifacts.

#### CS 1114 TWO DIMENSIONAL LAB 20 HOURS

Practice on normal 2-dimensional examination.

### CS 1116 INTRODUCTION TO NORMAL M-MODE EXAMINATION 15 HOURS

An orientation to M-mode recording with emphasis on the motion pattern of the different parts of the heart which can be seen. Discussion of the technique of performing the exam and the M-mode measurements. Lab time to practice on M-mode examination is included.

### CS 1118 INTRODUCTION TO CONVENTIONAL DOPPLER EXAMINATION 40 HOURS

A review of blood flow across the different valves of the heart as seen from different echo views. An explanation of the doppler technique of examination and the uses of the different doppler modes and interpretation of the doppler spectral display.

#### CS 1120 CONVENTIONAL DOPPLER LAB

**20 HOURS** 

Practice on Conventional Doppler examination.

### CS 1122 INTRODUCTION TO COLOR FLOW MAPPING & PRINCIPLES 15 HOURS

A review of color flow physics. A demonstration of the technique and uses of color flow doppler. Included are interpretations of the color flow display. Lab time to practice on color flow examinations is included.

### CS 1124 ECHOCARDIOGRAPHIC PATHOLOGY 115 HOURS

A study of cardiac diseases with emphasis on echocardio-graphic findings.

#### CS 1126 NON-INVASIVE LAB II 20 HOURS

An orientation to the echocardiographic controls. A demonstration of the technique of performing a complete echocardiographic examination including 2D, M-mode, doppler and color flow. Case studies in echo pathology are also discussed.

#### CS 1220 SONOGRAPHY CLINICAL PRACTICUM 810 HOURS

After successful completion of the echocardiographic block, students will rotate through various cardiac ultrasound laboratory settings. The clinical rotation consists of two to three levels, ranging from mobile labs, diagnostic centers to high profile offices. Internships are scheduled during the day.

#### CS 1250 SPECIAL PROJECTS & SEMINARS

**90 HOURS** 

Weekly evening seminars are conducted to review and enhance the weekly echo experience received in the clinical site. Various instructional techniques and group discussions are applied during the seminars. Weekly attendance is mandatory for successful completion of the DCS Program.

#### CV 1106 MEDICAL TERMINOLOGY 20 HOURS

The use of abbreviations and symbols used in typical medical reports. Prefixes, suffixes and root words that make up the structure of medical language are also studied.

### CV 1110 CELLULAR BASIS OF ANATOMY & PHYSIOLOGY 20 HOURS

An introduction to the medical field with a review of the responsibilities of a cardiovascular technologist, including ethical considerations. Study of the cell, its organelles and functions. Detailed discussion of cell membrane structure and its transport systems, and the role it plays in the generation of action potential.

#### CV 1112 MUSCULOSKELETAL SYSTEM

15 HOURS

A presentation of the overall skeletal plan with particular attention to anatomical landmarks relevant microscopic anatomy of a muscle is discussed with a description of excitation-contraction coupling and its relationship to the nervous system.

#### CV 1114 NERVOUS SYSTEM 20 HOURS

A study of the organization and structures in the nervous system, the function of each component, and its blood supply. Includes discussion of the most common derangement involving the system.

#### CV 1116 RESPIRATORY SYSTEM 15 HOURS

A study of the anatomical landmarks of the respiratory system, chemistry of oxygen and carbon dioxide transport, and breathing patterns.

#### CV 1118 GASTROINTESTINAL SYSTEM

**20 HOURS** 

Covers the general anatomical features of the gastrointestinal system. The anatomical and physiological characteristics of the stomach, small intestines, large intestines, liver, gall bladder and pancreas are described.

#### CV 1312 AMBULATORY MONITORING

#### 15 HOURS

A presentation of holter scanning and its application in cardiology. Different types of recording and scanning techniques, lead placements and attachments, and sources of artifacts are discussed.

#### CV 1314 STRESS & HOLTER LAB 60 HOURS

A demonstration of the steps involved in preparing a patient for holter monitoring, stress testing and vascular studies. Proper electrode placement for artifact free recording is included. Students practice performing actual EST and Holter techniques.

#### CV 1316 CARDIAC PATHOLOGY 165 HOURS

A study of cardiovascular diseases, their etiologies, anatomical abnormalities, signs and symptoms and hemodynamic changes.

### CV 1318 INTRODUCTION TO VASCULAR DISEASES 15 HOURS

A review of circulatory hemodynamics followed by a study of different arterial and venous disorders, including their etiology, symptoms and physical manifestation.

### CV 1320 PSYCHOLOGY OF PATIENT CARE

**15 HOURS** 

A study of personality formation, the stress of illness, patient fear, and public relations in a health care setting.

### CV 1322 PROFESSIONALISM & MEDICAL ETHICS 15 HOURS

An insight into the morality and ethics that direct today's medical professionals. Beginning with the Hippocratic Oath to discussing the AMA principles on medical ethics, students will understand the conduct and professionalism that is expected and required in the medical community.

### CV 1410 INTRODUCTION TO CARDIOVASCULAR INTERVENTIONAL TECHNOLOGY 50 HOURS

A broad study in the principles of invasive cardiology and the environment of the cardiac catheterization laboratory. The student is introduced to the theory and applications of hemodynamics and angiography designed to provide an understanding of diagnostic catheterization procedures and their applications in a clinical setting.

### CV 1422 ADVANCED CONCEPTS IN CARDIAC TECHNOLOGY 25 HOURS

A clinical application of various diagnostic modalities including signaled averaged ECG's persantine and thallium stress testing and other related procedures, with simulated demonstrations of each.

### CV 1424 INTRODUCTION TO VASCULAR STUDIES 25 HOURS

An introduction to the different arterial and venous diagnostic techniques, physical principles involved, testing protocols, and current diagnostic equipment.

#### CV 1426 NON-INVASIVE VASCULAR LAB

60 HOURS

Practice sessions in performing arterial and venous studies.

### CV 1450 INTERNSHIP OR SPECIAL CONCEPTS COURSE 300 HOURS

A demonstration of ECG, holter and stress competencies in the workplace with patients, or completion of a special concepts course, inclusive of an assigned project. Practical field experience is required of all graduates exiting the cardiovascular technologist program who are not advancing to upper division programs. Internships are scheduled primarily during day hours due to limited availability of appropriate learning experiences in the evening.

#### HS 1100 KEYBOARDING LAB 50 HOURS

Students are taught by touch, the location of all of the alphabetic keys on the keyboard, proper posture and reaching techniques, and practice rhythm for more accurate and faster keyboarding. NOTE: Students must achieve minimum keyboarding speed of 35 wpm to graduate.

#### HS 1105 APPLIED BUSINESS MATH 50 HOURS

Students learn to use their math abilities in business related fields such as bank reconciliations, payroll computation, sales commissions, markup, simple interest, promissory notes and taxes.

#### **HS 1107 COMPUTER FUNDAMENTALS**

10 HOURS

An introduction to computer hardware and software and their use in a business environment.

### HS 1110 WORD PROCESSING APPLICATIONS LAB 80 HOURS

In this laboratory course, students learn contemporary word processing applications. Students also learn to create and manage documents on the microcomputer, as well as word processing commands that permit them to become power users.

### HS 1115 PRACTICAL OFFICE SKILLS LAB 10 HOURS

A seminar placing emphasis on communication and office organization, including proper use of office equipment such as the telephones, copier and facsimile machines.

#### **HS 1200 PRINCIPLES OF MANAGEMENT**

**50 HOURS** 

Emphasis is placed on aspects of management such as planning, organization, staffing, leading and controlling. The needs for sound management philosophy are identified.

### HS 1210 SPREADSHEET APPLICATIONS LAB 70 HOURS

In this laboratory course, students learn contemporary spreadsheet applications. Students become proficient in various functions such as entering labels, values, formulas, formatting, aligning, and other important spreadsheet commands.

#### MA 1120 NERVOUS SYSTEM & SPECIAL

SENSES 15 HOURS

A study of the organization and structures in the nervous system.

#### MA 1122 CIRCULATORY SYSTEM 20 HOURS

A study of the arteries and veins with a comprehensive understanding of the different changes that take place throughout the system.

#### MA 1124 LYMPHATIC SYSTEM 15 HOURS

A study of the body's filtration system.

#### MA 1126 RESPIRATORY SYSTEM 15 HOURS

A study of different parts of the respiratory system with understanding of the chemistry of oxygen and carbon dioxide transport and breathing patterns.

#### MA 1128 DIGESTIVE SYSTEM 20 HOURS

A complete study of the anatomy and functions of the gastrointestinal system.

### MA 1130 GENITOURINARY & REPRODUCTIVE SYSTEM 15 HOURS

A study of the gross anatomy and histological organization of the urinary system, and the male and female reproductive systems.

#### MA 1132 ENDOCRINE SYSTEM 15 HOURS

The study of hormones, their origin and function with respect to the human body.

### MA 1210 MEDICAL PRACTICES & SPECIALTIES 5 HOUR

A study of the medical office practice, including different types of medical specialties.

### MA 1212 PSYCHOLOGY OF PATIENT CARE . LEGAL & ETHICAL ISSUES 10 HOURS

A study of personality formation, the stress of illness, patient fear, and public relations in the medical office, including standards of conduct and medical practice acts. The Code of Ethics of the Registered Medical Assistant is discussed.

### MA 1214 MEDICAL OFFICE MANAGEMENT PROCEDURES 50 HOURS

A study of front office duties including types of medical practices and specialties, telephone techniques, appointment scheduling, pegboard accounting, maintaining medical records, filing systems, medical reports, correspondence, and coding health insurance claims.

### MA 1216 MEDICAL RECORDS/CODING MANAGEMENT 70 HOURS

An introduction to the patient's medical record including concepts of abstracting and posting ICD-9 and CPT-4 codes for insurance processing.

#### MA 1218 CODING CASE STUDIES I 15 HOURS

Students will use their skills to code from a patient's medical record for insurance processing.

#### MA 1220 PRACTICAL SKILLS LAB 50 HOURS

Students are given practical applications specific to their curriculum emphasis at the program coordinator's discretion. Examples are: in the Medical Assisting emphasis, students will learn patient examination skills; in the Medical Coding emphasis, students will code from medical record cases.

### MA 1310 ORGANIZATION OF THE CLINICAL LAB/INFECTION CONTROL 10 HOURS

An introduction to the various departments of the medical reference laboratory, safety guidelines, aseptic techniques, sterilization procedures, quality assurance and quality control. The student will learn principles, techniques, and equipment used in the medical office setting. Categories of isolation and universal precautions related to communicable disease transmission are presented.

#### MA 1312 INTRODUCTION TO

ELECTROCARDIOGRAPHY

15 HOURS

Introduction to basic electrocardiography skills. Students learn recording using single and multi-channel equipment.

### MA 1314 PHARMACOLOGY & DRUG THERAPY 30 HOURS

The study of injections, use of syringes and needles, the study of drugs and solutions, toxic effects of drug abuse, legal regulations and standard inventory, dosage, prescriptions, and emergency drugs.

#### MA 1316 PHLEBOTOMY TECHNIQUES

**60 HOURS** 

A study of skin puncture procedures, injection, and venipuncture using the syringe and evacuated tube system. Capillary tubes, microtainers, and color-coded collection tubes are introduced.

#### MA 1318 HEMATOLOGY 25 HOURS

The study of blood composition and the formation and development of blood cells. Methods and practice in hemoglobin, hematocrit, sedimentation rate and coagulation studies are introduced including bleeding time.

#### MA 1320 BASIC URINALYSIS 20 HOURS

A review of the anatomy and physiology of the urinary system in detail, collection of specimens, physical, and chemical examinations, and confirmatory tests, including pregnancy and ovulation. Normal values and interpretation of findings are included.

#### MA 1322 CHEMISTRY TESTING 10 HOURS

An introduction to the various chemistry testing procedures such as cholesterol and glucose using kit methods and quality assurance controls.

### MA 1324 CARDIOPULMONARY RESUSCITATION 15 HOURS

A study of emergency management for the sudden death victim and first aid for choking. Certification requirements are determined by the American Heart Association and include procedures for adults, children, and infants.

#### MS 1110 HUMAN ANATOMY & PHYSIOLOGY

175 HOURS

A study of the structure and function of the human body and its systems. Emphasis is placed on the functional relationships of the skeletal, nervous, integumentary, circulatory and muscular systems, with added concentration on kinesiology (the study of muscles and body movement). Students also experience palpation of muscles, joints and other anatomical structures. A participative approach to instruction is emphasized.

#### MS 1112 INTRODUCTION TO CLINICAL PATHOLOGY 20 HOURS

An introduction to the most common injuries and diseases encountered by the massage therapist. Recognition of these physical conditions and their consequences on therapeutic applications are stressed.

#### MS 1114 HIV/AIDS 5 HOURS

Information about HIV and AIDS is presented in accordance with the content guidelines prepared by the U. S. Centers for Disease Control (CDC) and the Federal Occupational Safety and Health Administration (OSHA). HIV/AIDS and other common blood-borne patheogens and communicable diseases are studied with emphasis on modes of transmission, prevention, universal precautions and engineering/work practice controls. Training is also directed toward health care providers with potential for occupational exposure to blood or other potentially infectious materials in order to minimize any related exposure risks.

### MS 1210 PRINCIPLES OF THERAPEUTIC MASSAGE, ASSESSMENT & PRACTICE

**100 HOURS** 

A study of the basic techniques of Swedish Massage. Indications, precautions, contraindications and benefits are discussed. Students also learn about asepsis, hygiene, proper body mechanics, client draping and positioning.

## MS 1212 THERAPEUTIC MASSAGE APPLICATIONS - CLINICAL PRACTICUM I 100 HOURS

Swedish massage applications are demonstrated and practiced in a supervised clinical setting. Examples of such techniques include: gliding strokes, kneading, direct pressure, direct friction, joint mobilization, superficial warming techniques, percussion, compression, vibration, jostling, shaking and rocking.

### MS 1310 THEORY & PRACTICE OF HYDROTHERAPY 15 HOURS

An introduction to the theoretical basis and applications of water as a therapeutic and rehabilitative medium. Students learn about the proper use of hydrocollator units, hot packs, ice packs, steam baths, contrast baths, and other related contemporary hydro-therapeutic modalities.

### MS 1312 ALLIED THERAPEUTIC MODALITIES 50 HOURS

An introduction to common therapeutic modalities which are often practiced as adjuncts to Swedish Massage. Examples of such modalities are: Connective Tissue Massage, Shiatsu, Craniosacral Technique, Chair Massage, Reflexology, Joint Mobilizations, Sports Massage, Deep Relaxation Techniques, Trager, Neuromuscular Therapy and Spa Therapy Techniques.

#### MS1314 ALLIED THERAPEUTIC MODALITIES-CLINICAL PRACTICUM II 50 HOURS

Allied therapeutic modalities presented in MS 1312 are demonstrated and practiced in a supervised clinical setting.

## MS 1316 INTEGRATED MASSAGE APPLICATIONS - CLINICAL PRACTICUM III 50 HOURS

A continuation of supervised clinical practice integrating the principles of Swedish Massage and adjunctive therapeutic modalities. Students are afforded the opportunity to practice their massage and evaluation skills on a diverse group of subjects.

### MS 1318 FLORIDA STATUTES/RULES & HISTORY OF MASSAGE 10 HOURS

An examination of the regulatory requirements of the Florida Massage Practice Act (Chapter 480 of the Florida Statutes), governing the practice of massage within the state. The history of massage is also reviewed from its origin to the current state of the profession.

#### MS 1319 BUSINESS PRINCIPLES & ETHICS

10 HOURS

A discussion of essential business principles for developing a successful massage therapy practice. Included is a review of the ethical standards of conduct for the massage therapist as defined by the American Massage Therapy Association (AMTA).

### MS 1320 CARDIOPULMONARY RESUSCITATION & FIRST AID 15 HOURS

A study of the emergency management of a cardiac arrest victim and first aid for an obstructed airway. Students meet national certification requirements as determined by the American Heart Association (AHA) and include resuscitation procedures for adults and infants. Appropriate first aid for commonly encountered acute injuries and illnesses is also included.

### MS 1410 BUSINESS PRACTICES & CAREER DEVELOPMENT 35 HOURS

A course to prepare graduates to maximize their effectiveness in the massage therapy profession as an employee ar as a proprietor. Included are basic life skills necessary to become competitive in the business world. Information is provided on a variety of subjects such as: insurance bookkeeping, taxes, licensing, zoning, equipment, marketing, interviewing techniques, resume writing, and other essentials for a successful massage therapy practice.

#### MS 1412 MEDICAL TERMINOLOGY 15 HOURS

The use of abbreviations and symbols used in typical medical reports. Prefixes, suffixes and root words that make up the structure of medical language are also studied.

### MS 1414 CLINICAL ASSESSMENT, ADVANCED INJURY EVALUATION & TREATMENT

50 HOURS

Instruction is provided on various approaches to effectively evaluation the client's physiological condition as it relates to the development of an appropriate massage treatment plan. Students learn methodologies such as postural analysis, kinesiology techniques, advanced palpation and SOAP format charting.

### MT 1510 ADVANCED MEDICAL TRANSCRIPTION 120 HOURS

Provides advanced medical transcription skills utilizing the computer with contemporary word processing applications, a transcribing machine, and medical dictation recorded on magnetic tape in the specialty of radiology.

#### MT 1515 ADVANCED KEYBOARDING 40 HOURS

A concentration on mastering advanced keyboarding skills with high level and accuracy. Exit skill requirement is 120 lines per hour.

#### MT 1600 INTERNSHIP OR PROJECT 200 HOURS

Medical transcription experience is provided outside the classroom. Included is transcription of dictation applying varying degrees of difficulty. Interns transcribe from auto cassette tapes onto a computer using skills learned in the classroom; proofread their own transcription, and research presentation to the dictator. A special project may be completed in lieu of internship at the program coordinators' discretion.

#### PC 1100 HEALTH CAREERS CORE FUNDAMENTALS

An introduction to health care and the delivery system, including a core of basic knowledge necessary for any health occupations career. Also included are such topics as: medical ethics, interpersonal skills, disease concepts, safety, basic math and science skills.

30 HOURS

### PC 1102 BASIC NURSING ASSISTING & GERIATRIC PATIENT CARE 35 HOURS

A variety of nursing assistant skills are provided. The student learns to perform basic nursing procedures, caring for the patients' emotional and physical needs. Principles of universal precautions, isolation and infection control are included. Geriatric care is emphasized together with restorative activities and patient care plans.

### PC 1104 INTERNSHIP - EXTENDED CARE ROTATION 40 HOURS

Students are placed in a medical facility where there is an opportunity to observe, assist, learn and perform patient services in an extended care setting. The internship is an essential component of the program where theoretical and practical skills are integrated. Specific objectives involving cognitive, affective and psychomotor behaviors must be met for students to complete this course.

#### PC 1106 HOME HEALTH CARE 75 HOURS

Students are introduced to the role and responsibilities of the home health aid. Topics include legal and ethical responsibilities, patient safety and physical comfort, nutrition, infection control, and communication. Students also learn to follow a work plan with the patient and family.

### PC 1200 PRINCIPLES OF PATIENT CARE ASSISTING 40 HOURS

Students learn to perform a variety of acute-care skills related to the hospital setting. The needs of adult patients with specific health problems such as diabetes, arthritis, spinal cord injuries, and seizure disorders among others, are discussed.

### PC 1202 BASIC ELECTROCARDIOGRAPHY TECHNIQUES 40 HOURS

A study of the cardiovascular system and the application of medical instrumentation modalities. Students learn to perform a 12 lead electrocardiogram, including patient preparation, use of equipment, charting and documentation. Training is also provided in cardiac wellness and rehabilitation, as well as other related patient care techniques.

### PC 1204 PHLEBOTOMY TECHNIQUES & SPECIMEN PROCESSING 40 HOURS

A study of phlebotomy including skin puncture procedures using the syringe and evacuated tube system. Capillary tubes microtainers, and color-coded collection tubes are introduced. Students follow universal precautions and practice accepted procedures of transporting, accessioning and processing specimens. Quality assurance and laboratory safety are emphasized.

### PC 1206 ALLIED HEALTH APPLICATIONS 40 HOURS

Students perform diverse patient care skills involving allied health modalities within the scope of practice of unlicensed assistive personnel. Basic respiratory care modalities are introduced. Students also learn to perform colostomy care, skin and decubitus care, removal and care of peripheral intravenous catheters, as well as assisting with orthopedic appliances.

### PC 1208 COLLABORATIVE MANAGEMENT & ORGANIZATION 40 HOURS

Students develop organizational and management skills for the clinical environment. A collaborative team approach is emphasized. Topics include managerial styles, delegation and problem-solving techniques, chain of command, and interpersonal relationships, among others. End-of-shift reports are also discussed. The role of the patient care technician as a valuable team member is included.

### PC 1300 INTERNSHIP - ACUTE CARE ROTATION 200 HOURS

Students are placed in a medical facility where there is an opportunity to observe, assist, learn and perform patient services in an acute care setting. The internship is an essential component of the program where theoretical and practical skills are integrated. Specific objectives, involving cognitive, affective and psychomotor behaviors must be met for students to complete this course.

#### PT 1202 PHARMACY LAW 40 HOURS

Each state has established specific statutes which govern the practice of pharmacy and the legal authority and framework by which pharmacists, pharmacy interns/ students, and pharmacy technicians may work. This course examines general legal issues pertaining to pharmacies, pharmacists, and pharmacy technicians as it applies in the state of Florida. Special emphasis is placed on a discussion of comprehensive practice guidelines for pharmacy technicians so that these individuals gain a full understanding and respect of the legal, moral, and ethical aspects of their position and the legal responsibilities of their pharmacist supervisor. The course also discusses the various national, state and local regulatory agencies that regulate the practice of pharmacy.

### RT 0192 RADIATION PHYSICS &

ELECTRONICS 25 HOURS

A study of exposure factors, the circuitry of x-ray machines, and related accessories used to maintain patient and operator safety and to improve the quality of the radiograph.

### RT 0194 RADIOGRAPHIC TECHNIQUE & PRODUCTION 70 HOURS

A practical discussion and demonstration of patient positioning, film processing, quality assurance procedures, and basic pathology related to diagnostic radiography in the physician's office.

#### RT 0196 BASIC X-RAY MACHINE OPERATOR CERTIFICATION EXAMINATION REVIEW 10 HOURS

A comprehensive outline of testing procedures, technical information, and a critique of the student's skills related to correct patient preparation, and trouble-shooting during radiographic procedures.

#### ST 1210 MICROBIOLOGY 35 HOURS

An introduction to micro-organism identification and classification of bacteria. Included are procedures for specimen collection using sterile techniques. Equipment decontamination and sterilization procedures are also introduced and practiced. Emphasis is placed on maintaining a sterile field.

#### ST 1212 PATIENT PSYCHOLOGY 10 HOURS

Behavioral changes of patients are discussed with emphasis on those associated with disease. Included are the stages of adaptation to crisis and the role of the health care provider. Psychological aspects of human growth and development are also discussed.

### ST 1214 LEGAL ASPECTS OF MEDICINE & PROFESSIONAL ETHICS 10 HOURS

An insight into the morality and ethics that direct today's medical professionals. Beginning with the Hippocratic Oath, students will discuss the AMA principles on medical ethics, and understand the conduct and professionalism that is expected and required in the medical community.

### ST 1216 MATHEMATICS FUNDAMENTALS & METRIC SYSTEM 30 HOURS

Basic mathematics applications are reviewed with calculations of dosages to include conversion from standard to metric systems and visa versa.

#### ST 1218 PHARMACOLOGY 30 HOURS

The study of injections, use of syringes and needles, drugs and solutions, toxic effects of drugs, legal regulations and standard inventory, dosage, prescriptions and emergency drugs.

#### ST 1220 CARDIOPULMONARY RESUSCITATION 15 HOURS

A study of emergency management for the sudden death victim and first aid for choking. Certification requirements are determined by the American Heart Association and include resuscitation procedures for adults, children, and infants.

#### ST 1222 COMPUTER CONCEPTS 20 HOURS

An overview of the history and concepts of computers.

The central processing unit, input-output devices, floppy disks, hard disks, disk operating systems, and elements of word processing are introduced.

### ST 1224 INTRODUCTION TO SURGICAL TECHNOLOGY 45 HOURS

A study of the organization and management of different health care facilities with emphasis on the job descriptions, communication and work environment, including equipment that is standard in each operating room suite. Also included is an introduction to surgical attire, scrubbing, gowning and gloving one's self and another, opening and maintenance of sterile fields and basic instrumentation.

### ST 1312 SURGICAL TECHNIQUES & PROCEDURES 56

A study of basic instrumentation used in surgery. Proper techniques are presented in such areas as scrubbing, gowning, gloving, as well as sterile techniques such as prepping, basic set-ups and invasive procedures.

### ST 1314 SURGICAL SPECIALTIES I - GENERAL, OB/GYN, PLASTICS & ORTHOPEDICS

**50 HOURS** 

A study of the different procedures pertaining to each specialty including additional instrumentation and equipment for each procedure.

#### ST 1316 SURGICAL SPECIALTIES II -OPHTHALMOLOGY, ENT & UROLOGY

50 HOURS

A study of the different procedures pertaining to each specialty including additional instrumentation and equipment for each procedure.

## ST 1318 SURGICAL SPECIALTIES III CARDIOVASCULAR, THORACIC & NEURO 50 HOURS

A study of the different procedures pertaining to each specialty including additional instrumentation and equipment for each procedure.

#### ST 1410 CLINICAL PRACTICUM 600 HOURS

Students are placed in a medical facility where there is an opportunity to observe, assist, learn and perform in a practical setting. The clinical practicum is an essential component of the program where theoretical and practical skills are integrated. Rotations are scheduled primarily during day hours. Students must assist with a minimum of 125 surgical cases in various specialties and meet other experiential pre-requisites for professional credentialing eligibility as may be otherwise required.

### US 1110 PHYSICS OF ULTRASOUND & INSTRUMENTATION 50 HOURS

An introduction to the fundamental physical principles and instrumentation of ultrasound. Topics include units, measurement and formulas used in diagnostic ultrasound and how production of ultrasound waves interact with tissues and organs in the human anatomy to create a diagnostic image. Imaging instrumentation of static and real time modes, as well as doppler instrumentation with continuous wave pulsed and duplex with color flow, are used to produce the image. Quality control is taught for the safety consideration of the ultrasound exam. This course prepares the student to take the ARDMS Physics Registry Examination.

### US 1224 THIRD TRIMESTER: NORMAL AND ABNORMAL FETAL ANATOMY 50 HOURS

A study of normal and abnormal fetal growth and measurements, as well as biophysical profiles. Also covers fetal anatomy including chest and abdomen, urogenital tract, fetal heart, abdominal wall defects, chromosome abnormalities and fetal death during the third trimester.

#### US 1226 ULTRASOUND MEASUREMENTS, BIOPHYSICAL PROFILE & MULTIPLE FETUSES 75 HOURS

An overview of obstetric ultrasound measurements, biophysical profile and multiple fetuses. Topics of investigation include proper techniques used in measurements, biophysical profile, multiple gestations with emphasis on ultrasound physics, biophysical profile and multiple fetuses.

# US 1228 INCOMPETENT CERVIX, PLACENTAL ABNORMALITIES AND DOPPLER ASSESSMENT OF PREGNANCY 50 HOURS

A study of the incompetent cervix, placental abnormalities and doppler assessment in pregnancy.

#### US 1310 INTERNSHIP OR PROJECT 300 HOURS

Students are placed in a medical facility where there is an opportunity to observe, assist, learn and perform in an on-the-job setting. Internship is mandatory and must be completed satisfactorily before a diploma is issued. The student's supervisor confirms the student's attendance and submits evaluations of performance to the program coordinator. A special project may be completed in lieu of internship at the program coordinator's discretion.

#### PROGRAM OFFICIALS

#### ALLEN, TIMOTHY

Program Coordinator Pharmacy Technician Program C.P. T., US Army

#### BASTIONY, PETER

Program Coordinator Health Services Administration Program N. Miami Beach Campus A.A., Barry University Miami, FL

#### BATTIATA, RUSSELL

Program Coordinator Health Services Administration Program Kendall Campus Micro-Computer Diploma National School of Technology Miami, FL

#### BLANKS, ROSEMARY

Administrator of Clinical Education A.R.R.T., A.S., Radiology Northeastern University Boston, MA M.S., Business Management Lesley College, Cambridge, MA B.A., Art History & Education University of Massachusetts Boston, MA

#### COLUCCI, DONNA

Clinical Coordinator Surgical Technologist Program C.S.T., Jackson Memorial Hospital A.A., Psychology Broward Community College

#### CONTRACTOR, NORALIS

Program Coordinator Medical Transcriptionist Program Kendall Campus A.S., Medical Transcription Ward Stone College Miami, FL

#### CRUZ, FRANCES

Assistant Clinical Coordinator Surgical Technologist Program C.S.T., Swedish American Hospital Rockford, IL F.A., National School of First Assisting Bolder, CO E.M.I., Blackhawk Technical Institute Janesville, WI

#### DUQUE, DIEGO

Program Director Diagnostic Cardiac Sonographer Program - PT R.D.M.S., R.D.C.S., R.V.T., C.C.V.T, Diploma, National School of Technology Miami, FL

#### FERNANDEZ, ENRIQUE FABIAN

Program Coordinator Massage Therapist & Advanced Massage Therapist Programs Hialeah Campus L.M.T. #MA0025399 A.M.T.A. Certified A.S., Florida College of Natural Health

#### GARCIA, ANTHONY

Field Coordinator Cardiovascular Technologist Program Kendall Campus M.D., Universidad Central del Este, Dominican Republic

#### GRANELA, CARLOS

Program Coordinator Massage Therapist & Advanced Massage Therapist Programs L.M.T. #MA0022474 Florida Institute of Massage Therapy

#### JOHNSON, VERNEACHA ELLEN

Program Coordinator Surgical Technologist Program Kendall Campus Cert., Dade County Public Schools Certificate, Operating Room Technician UM/Jackson Memorial Hospital Miami, FL

#### MIRO, MARIO

Division Coordinator Diagnostic Medical Technologies M.D., Universidad Central del Este, Dominican Republic

#### NORRIS, KIMARI

Program Coordinator Massage Therapist & Advanced Massage Therapist Programs N. Miami Beach Campus L.M.T. #MA0015374 P.T.A., A.S., Physical Therapy Assist. Broward Community College Massage Certificate Lindsey Hopkins Vocational School Miami, FL

#### ORLOFF, JULIE

Program Coordinator Medical Assistant, Advanced Medical Assistant & Medical Coding Specialist Programs N. Miami Beach Campus R.M.A., C.M.A., C.P.C., C.P.T Certificate, Medical Assisting Broward Community College

ROWE, VERONA Program Coordinator Surgical Technologist Program Hialeah Campus B.S., Pace University Pleasantville, NY O.R.S., Academy of Health Sciences - Ft. Sam Houston, TX

#### SANCHEZ-FEIERSTADT, ANA

Program Coordinator Patient Care Technician Program N. Miami Beach Campus BS, RN, Florida International University Miami, FL

WILKES, JOHN Program Coordinator Advanced Medical Assistant & Medical Coding Specialist Programs Kendall Campus B.A., Philosophy Rutgers University New Brunswick, NJ

#### ZAYAS-BAZAN, MARIO

Program Coordinator Medical Assistant, Advanced Medical Assistant & Medical Coding Specialist Programs Hialeah Campus M.D., Universidad Mexico Reynosa, Mexico

#### ZOIDIS, JUDITH

Program Coordinator Surgical Technologist Program N. Miami Beach Campus C.S.T., Maine Medical Center Portland, Maine B.A., University of Maine Orano, ME

### NORTH MIAMI BEACH CAMPUS FACULTY

WALTERS, JEFFREY Instructor-PT Advanced Medical Assistant Program R.T., Miami Dade Community College Miami, FL

#### VIZZARO, ROSA

Instructor
Patient Care Technician Program
A.A., RN,
Miami Dade Community College
Miami, FL

#### HIALEAH CAMPUS FACULTY

#### SWEETING, DOROTHY

Instructor Medical Assistant & Advanced Medical Assistant Programs C.M.A. L.P.N., University of Wisconsin

#### VAZQUEZ-BELLO, ENRIQUE

VAZQUEZ-BELLO, ENRIQUE
Instructor-PT
Massage Therapist & Advanced Massage
Therapist Programs
B.A., Saint Thomas University
Miami, FL
A.S.N., Miami-Dade Community College
Miami, FL

WILDER, SABRINA Instructor Medical Assistant, Advanced Medical Assistant & Medical Coding Specialist Programs Diploma, Medical Assistant Bauder College Miami, FL

#### KENDALL CAMPUS FACULTY

#### SQUIABRO, ROSE

Instructor
Medical Coding Specialist &
Advanced Medical Assistant Programs
Emergency Medical Technician
Okaloosa Walton Sr. College
Respiratory Therapy, ATI

#### TAMARGO, CARLOS

Instructor
Cardiovascular Technologist &
Pharmacy Technician Programs
B.A., University of Miami
M.D., Universidad Central Del Este
Dominican Republic

#### TIMOTHEE, HARRY

Instructor Cardiovascular Technologist Program M.A., B.A., Hunter College Dominican Republic

#### TRIANA, BEATRIZ

Instructor
Cardiovascular Technologist &
Pharmacy Technician Programs
A.A., Miami Dade Community College
B.A., St. Thomas University
M.D., Universidad Central Del Este
Dominican Republic

VEGTER, MENNO
Instructor
Massage Therapist &
Advanced Massage Therapist Programs
LMT #MA0023712
Florida Institute of Massage Therapy

# NATIONAL SCHOOL OF TECHNOLOGY

#### SCHEDULE OF TUITION & FEES

PROGRAM	PROGRAM HOURS	MONTHS (D & E)	TUITION	LAB & BOOK FEES	REG. FEE	TOTAL
HEALTH SERVICES ADMINISTRATION	1,200	12-15	\$ 10,170	\$ 630	\$ 50	\$ 10,850
MEDICAL CODING SPECIALIST	900	9-12	\$ 7,760	\$ 390	\$ 50	\$ 8,200
MEDICAL TRANSCRIPTIONIST	1,200	12-15	\$ 9,055	\$ 830	\$ 50	\$ 9,935
MEDICAL ASSISTANT	900	9-12	\$ 7,340	\$ 400	\$ 50	\$ 7,790
ADVANCED MEDICAL ASSISTANT	1,200	12-15	\$ 9,895	\$ 475	\$ 50	\$ 10,420
PHARMACY TECHNICIAN	1,200	12-15	\$ 8,980	\$ 600	\$ 50	\$ 9,630
MASSAGE THERAPIST	600	6-8	\$ 5,590	\$ 350	\$ 50	\$ 5,990
ADVANCED MASSAGE THERAPIST	900	9-12	\$ 7,690	\$ 500	\$ 50	\$ 8,240
PATIENT CARE TECHNICIAN	600	6-8	\$ 5,320	\$ 230	\$ 50	\$ 5,600
SURGICAL TECHNOLOGIST	1,200	12	\$ 13,950	\$ 500	\$ 50	\$ 14,500
CARDIOVASCULAR TECHNOLOGIST	1,500	15-19	\$ 14,835	\$ 365	\$ 50	\$ 15,250
DIAGNOSTIC CARDIAC SONOGRAPHER	1,200	12	\$ 11,250	\$ 200	\$ 50	\$ 11,500
ULTRASOUND TECHNOLOGIST	1,200	12-15	\$ 12,995	\$ 685	\$ 50	\$ 13,730

## ACADEMIC CALENDAR

#### HEALTH SERVICES ADMINISTRATION PROGRAM

(N. Miami Beach & Kendall Campuses)

Day	Evening
01/08/01 - 01/30/02	01/02/01 - 04/15/02
03/12/01 - 04/02/02	03/19/01 - 07/08/02
05/14/01 - 06/03/02	05/29/01 - 09/24/02

#### MEDICAL CODING SPECIALIST PROGRAM

(All Campuses)

<u>Day</u>	Evening
01/08/01 - 10/16/01	01/02/01 - 12/06/01
03/12/01 - 12/20/01	03/19/01 - 03/05/02
05/14/01 - 02/28/02	05/29/01 - 05/20/02

#### MEDICAL TRANSCRIPTIONIST PROGRAM

(Kendall Campus)

Day	Evening
01/08/01 - 01/30/02	01/02/01 - 04/15/02
03/12/01 - 04/02/02	03/19/01 - 07/08/02
05/14/01 - 06/03/02	05/29/01 - 09/24/02

#### MEDICAL ASSISTANT PROGRAM

(N. Miami Beach & Hialeah Campuses)

Day	Evening
01/08/01 - 10/16/01	01/02/01 - 12/06/01
03/12/01 - 12/20/01	03/19/01 - 03/05/02
05/14/01 - 02/28/02	05/29/01 - 05/20/02

### ADVANCED MEDICAL ASSISTANT PROGRAM (All Campuses)

Day	<u>Evening</u>
01/08/01 - 01/28/02	01/02/01 - 04/04/02
03/12/01 - 03/28/02	03/19/01 - 06/24/02
05/14/01 - 05/28/02	05/29/01 - 09/18/02

#### PHARMACY TECHNICIAN PROGRAM

(Hialeah & Kendall Campuses)

Day	<u>Evening</u>
02/26/01 - 03/07/02	02/26/01 - 06/04/02
05/29/01 - 06/04/02	06/18/01 - 10/01/02

#### MASSAGE THERAPIST PROGRAM

(All Campuses)

(111 Chilipasco)		
Day	Evening	
01/08/01 - 07/16/01	01/02/01 - 08/13/01	
03/12/01 - 09/17/01	03/19/01 - 10/30/01	
05/14/01 - 11/20/01	05/29/01 - 01/28/02	