

# RADIATION TECHNOLOGY/ MEDICAL SONOGRAPHY (RTMS)

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## Courses

### RTMS 339. Echocardiography I. 4 Units.

Focuses on normal anatomy, scan techniques, cardiac measurement, and new dynamics. Case study presentations.

### RTMS 344. Introduction to Medical Sonography. 5 Units.

Introduction to sonography—including ob-gyn, abdomen, vascular, neurosonography, cardiac, and pediatric. Covers terminology and scan techniques for all areas.

### RTMS 345. Ob-Gyn Sonography. 5 Units.

Ob-Gyn scan techniques, fetal anatomy and pathologies, gynecological anatomy and pathologies. Student case presentations and case studies.

### RTMS 346. Vascular Technology/Doppler/Scan Techniques. 5 Units.

Covers vascular technology, Doppler, abdomen, and small parts. Continues case studies and case presentations.

### RTMS 347. Echocardiography II. 4 Units.

Echocardiography, adult and pediatric. Further focuses on anatomy, pathology, hemodynamics, and Doppler. Includes case studies and presentations.

### RTMS 348. Abdomen/Neurosonography. 5 Units.

Sonography of the abdomen and neonatal neurosonography specialties and scan techniques. Visualizes sonography of the abdomen, cross-section scan techniques, and pathologies on ultrasound. Includes neonatal neurosonography; anatomy and pathologies also included.

### RTMS 361. Cardiac Sonography Clinical Affiliation. 8 Units.

Cardiac clinical affiliate includes 320 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams.

### RTMS 362. Cardiac Sonography Clinical Affiliation. 8 Units.

Cardiac clinical affiliate includes 320 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams. Prerequisite: RTMS 361.

### RTMS 363. Cardiac Sonography Clinical Affiliation. 8 Units.

Cardiac clinical affiliate includes 320 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams. Prerequisite: RTMS 362.

### RTMS 364. Cardiac Sonography Clinical Affiliation. 8 Units.

Cardiac clinical affiliate includes 320 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams. Prerequisite: RTMS 363.

### RTMS 371. General Vascular Clinical Affiliation. 8 Units.

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience.

### RTMS 372. General Vascular Clinical Affiliation. 8 Units.

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience. Prerequisite: RTMS 371.

### RTMS 373. General Vascular Clinical Affiliation. 8 Units.

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience. Prerequisite: RTMS 372.

### RTMS 379. Ultrasound Physics and Instrumentation I. 2 Units.

Studies the basic physical principles and instrumentation of ultrasound production and imaging. Selected case study presentations, as assigned.

### RTMS 384. Topics in Medical Sonography. 1 Unit.

Surveys selected topics in medical sonography. Procedure summaries, projects, literature reviews.

### RTMS 385. Board Review Echocardiography. 2 Units.

Case presentations by faculty and students reviewing vast variety of pathologies, as well as normal anatomy. Prerequisite: RTMS 339, RTMS 347.

### RTMS 386. Echocardiographic Case Studies Adult and Pediatrics. 2 Units.

Case presentations by faculty and students reviewing normal anatomy and variety of pathologies in adult and pediatric cases. Prerequisite: RTMS 339, RTMS 347.

### RTMS 387. Ultrasound Physics and Instrumentation II. 2 Units.

Study and review of the basic physical principles and instrumentation of ultrasound, with additional emphasis on Doppler and artifacts. Prerequisite: RTMS 379.

### RTMS 421. Board Review OB-GYN Sonography. 1 Unit.

Board review presented in case study format; normal and pathologies involved in ultrasound evaluation of the OB-GYN specialty. Prerequisite: Completion of the first year of the medical sonography program.

### RTMS 422. Board Review Abdomen. 2 Units.

Board review presented in case study format. Normal scans and pathologies involved in a wide variety of abdominal and small part ultrasound examinations. Prerequisite: RTMS 421.

### RTMS 423. Board Review Vascular. 1 Unit.

Board review presented in case study format; normal and pathologies involved in a wide range of vascular ultrasound examinations. Prerequisite: RTMS 422.

### RTMS 424. Professionalism in Medical Sonography. 1 Unit.

Presents a variety of topics to develop professionalism and prepare graduates for the work force. Topics include writing a resume/CV, interviewing, and communication. Prerequisite: RTMS 421, 422, 423.

### RTMS 471. General Vascular Clinical Affiliation. 8 Units.

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience. Prerequisite: RTMS 373.

### RTMS 472. General Vascular Clinical Affiliation. 8 Units.

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience. Prerequisite: RTMS 471.

**RTMS 473. General Vascular Clinical Affiliation. 8 Units.**

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience.  
Prerequisite: RTMS 472.

**RTMS 474. General Vascular Clinical Affiliation. 8 Units.**

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience.  
Prerequisite: RTMS 473.

**RTMS 475. General Vascular Clinical Affiliation. 8 Units.**

General vascular affiliate includes 320 clock hours of observation and hands-on experience, and a variety of patient exams including general abdomen, ob-gyn and vascular. Includes identification of a variety of normal and pathological cases throughout the training experience.  
Prerequisite: RTMS 474.

**RTMS 965. Cardiac Ultrasound Clinical Affiliation. 8 Units.**

Cardiac clinical affiliate includes 364 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams.

**RTMS 966. Cardiac Ultrasound Clinical Affiliation. 8 Units.**

Cardiac clinical affiliate includes 363 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams.

**RTMS 967. Cardiac Ultrasound Clinical Affiliation. 10 Units.**

Cardiac clinical affiliate includes 420 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams.

**RTMS 968. Cardiac Ultrasound Clinical Affiliation. 10 Units.**

Cardiac clinical affiliate includes 418 clock hours of observation and hands-on experience, and a variety of cardiac echocardiograms. Includes adult, pediatric and fetal cardiac exams.