

ADDENDUM to the GENERAL CATALOG

2014-2017



Revised March 10, 2017

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GENERAL CATALOG 2014-2017 (February 18,2017)

ASSOCIATE'S DEGREE PROGRAMS (Page 162)

All Associates Degree Programs offered by EDIC College are Academic Associates Degrees.

ASSOCIATE DEGREE IN MEDICAL SONOGRAPHY (Page 197 – 203)

DESCRIPTION

The purpose of the Associate Degree in Medical Sonography is to train competent and committed professionals who contribute to provide direct services using new technologies and diagnostic imaging modalities. The course involves establishing and maintaining an interdisciplinary curriculum with purpose to develop critical thinking in participating students. This in turn will result in the formation of a graduate's capacity for serving the health needs of the community in their biological, psychological and sociocultural context with a humanist focus. The program consists of 77 credits. Classes are divided into general courses, related courses, professional courses and clinical practice. These courses are aligned with cognitive courses to put into practice in real-world clinical scenarios topics discussed in class. Upon completion of 77 credits, the student will receive an Associate Degree in Medical Sonography.

This program trains the students to acquire the necessary skills that will help them take the board examination offered by the Puerto Rico Board of Examiners of Radiological Technologists in Diagnostic Imaging and Radiotherapy and obtain a license once they complete the legal requirements.

It also trains student to acquire the necessary skills that will help them take the exams offered by the American Registry Diagnostic Medical Sonographers (ARDMS).

PROGRAM OBJECTIVES

1. Develop a professional with knowledge and basic clinical skills in the area of medical ultrasounds that will enable them to offer services on a scientific basis and in accordance with current technological advancements.
2. Develop students' competencies to encourage professional behavior in their relationships with patients, colleagues and other members of the allied health team.

3. Develop the students' skills to provide service that is sensitive to the patients' needs while respecting human dignity and without discriminating for reasons of race, color, sex, disability or financial situation.

PRACTICE REQUIREMENTS

The following documents are required prior to beginning the practice:

1. Certificate of criminal record
2. Health certificate
3. Hepatitis B vaccines
4. HIPAA Certification
5. CPR (cardiopulmonary resuscitation)
6. Doping *
7. Respiratory test *
8. Influenza Vaccine *
9. Clinical practice letter
10. Authorization to practice form

* Only for some centers.

EXAM REQUIREMENTS

1. Fill out the application provided by the Board of Examiners.
2. Evidence of academic degree, official credit transcript with the degree in Medical Sonography or in the applied specialty (General, Cardiac or Vascular)
3. Penal Antecedents Certificate (issued within the previous 6 months)
4. Health Certificate issued by the Health Department
5. Birth Certificate (original and copy)
6. Submit negative certification from the Child Support Administration
7. Money order or pay-per-view system ATM (card without Visa or Master Card logo) for \$30.00 payable to the Secretary of the Treasury for each license.

MINIMUM GRADE POLICY

ANAT 2201	SONO 2415	SONO 2415
ANAT 2202	SONO 2405	SONO 2416
ANAT 2203	SONO 2406	SONO 2417
RADI 2303	SONO 2407	
SONO 2401	SONO 2408	
SONO 2402	TERM 2204	

Students enrolled in the following courses should achieve a "B" (80) grade or higher in the following courses:

- SONO 2411
- SONO 2412
- SONO 2413
- SONO 2419

ASSOCIATE DEGREE IN MEDICAL SONOGRAPHY

PROGRAM CURRICULUM

GENERAL AND LIBERAL EDUCATION – 18 CREDITS

Required: 18 credits

	Credits
ESPA 2001 Basic Spanish I	3
ESPA 2002* Basic Spanish II	3
INGL 2101 Basic English I	3
INGL 2102* Basic English II	3
MATH 2003 Introduction to Algebra	3
PSYC 2011 Principles of Psychology	3
SUB-TOTAL	18

RELATED COURSES – 18 CREDITS

Required: 18 credits

ANAT 2201 Human Anatomy and Physiology I	4
ANAT 2202* Human Anatomy and Physiology II	4
ANAT 2203* Sectional Anatomy	3
COIS 2006 Introduction to Computers	2
RADI 2303 Management and Patient Care in Radiological Imaging	3
TERM 2204 Medical Terminology	2
SUB-TOTAL	18

PROFESSIONAL EDUCATION – 41 CREDITS

Required: 41 credits

SONO 2401* Introduction to Medical Sonography	3
SONO 2402 Ultrasound Physics	3
SONO 2415* Instrumentation and Quality Control	3
SONO 2405 Abdominal Sonography	4
SONO 2406 Small Parts Sonography	4
SONO 2407 Gynecologic Sonography	4
SONO 2408 Obstetric Sonography	4
SONO 2411* Practice I	1
SONO 2412* Practice II	1
SONO 2413* Practice III	1
SONO 2419* Practice IV	6
SONO 2416* Pediatric Sonography and Trauma	3
SONO 2417 Evaluation and Assessment of Sonography Images	3
SONO 2418 Pre-Board Test Seminar	1
*Courses with pre-requisites	
SUB-TOTAL	41

TOTAL 77

Students in the program will complete 1,770 hours of external work.

GENERAL INFORMATION

- The Institution reserves the right to modify this study program as decided by the corresponding departments.

CREDIT BREAKDOWN

AREA	CREDITS
General Education	18 Credits
Related Courses	18 Credits
Professional Courses	41 Credits
Total	77 Credits

Total Weeks: 98

**ASSOCIATE DEGREE IN MEDICAL SONOGRAPHY
COURSE DISTRIBUTION PER SEMESTER**

FIRST SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
TERM 2204	Medical Terminology	2	30
ESPA 2001	Basic Spanish I	3	45
RADI 2303	Management and Patient Care in Radiological Imaging	3	45
COIS 2006	Introduction to Computers	2	60
SONO 2401	Introduction to Medical Sonography	3	45
Total Credits		13	225

SECOND SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
ANAT 2201	Human Anatomy and Physiology I	4	75
ESPA 2002	Basic Spanish II	3	45
SONO 2405	Abdominal Sonography	4	75
MATH 2003	Introduction to Algebra	3	45
Total Credits		14	240

THIRD SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
SONO 2402	Ultrasound Physics	3	45
ANAT 2202	Human Anatomy and Physiology II	4	75
SONO 2407	Gynecologic Sonography	4	75
SONO 2411	Practice I	1	45
Total Credits		12	240

FOURTH SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
ANAT 2203	Sectional Anatomy	3	60
SONO 2408	Obstetric Sonography	4	75
SONO 2415	Instrumentation and Quality Control	3	45
INGL 2101	Basic English I	3	45
SONO 2412	Practice II	1	45
Total Credits		14	270

FIFTH SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
INGL 2102	Basic English II	3	45
SONO 2406	Small Parts Sonography	4	75
PSYC 2011	Principles of Psychology	3	45
SONO 2418	Pre-Board Test Seminar	1	15
SONO 2413	Practice III	1	45
Total Credits		12	225

SIXTH SEMESTER

CODE	COURSE TITLES	CREDITS	CONTACT HOURS
SONO 2419	Practice IV	6	270
SONO 2416	Pediatric Sonography and Trauma	3	45
SONO 2417	Evaluation and Assessment of Sonography Images	3	45
Total Credits		12	360

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COURSE DESCRIPTIONS

SONO 2415 INSTRUMENTATION AND QUALITY CONTROL 3 Credits

Prerequisites SONO 2402

This course details the different types of transducers in terms of their construction, features and modes of operation. The course helps students understand the piezoelectric effect, its different elements and importance in the construction of the transducers. It also includes additional instruments that complement the formation of the image in the sonography unit. Explores the various devices used to measure the proper functioning of the system of ultrasound. This course discusses the concept resolution and explains the importance of quality control in the sonographic unit. Students learn about the biological effects caused by ultrasound, the ALARA principle and the judicious use of ultrasound according to AIUM. This course has 90 additional hours of outside work. Students complete an assignment of one of the topics discussed in class to comply with this component.