

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u>Diagnostic Medical Sonography</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>DMSO 2345</u>
<b>COURSE TITLE</b>	<u>Advanced Sonography Practices</u>
<b>COURSE CREDIT HOURS</b>	<u>3            3 : 0</u> Credits      Lec    Lab

### I. Catalog Description

Presents exploration of advanced sonographic procedures and emerging ultrasound applications. A grade of "C" or better is required in this course to take the next course. **Prerequisite: DSVT 1103. (3.0)**

### II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Unit I. Case Studies – Obstetrics
  1. Present five (5) case study examinations in the area of obstetrics to include patient films, reason exam was ordered, history and laboratory data where applicable
  2. Identify normal and abnormal pathological processes on case studies presented by the instructor
  3. Explain differential diagnostic information that could be used to assist the sonographer in the ~~1-6~~ diagnoses.
  4. Identify other modalities of radiology that could be used as a source of additional information
  5. Identify anatomy demonstrated in both student and instructor case study presentations.
  
- B. Unit II. Case Studies – Gynecology
  1. Present five (5) case study examinations in the area of gynecology to include patient films, reason exam was ordered, history and laboratory data where applicable
  2. Identify normal and abnormal pathological processes on case studies presented by the instructor.
  3. Explain differential diagnostic information that could be used to assist the sonographer in the diagnoses.
  4. Identify other modalities of radiology that could be used as a source of additional information.
  5. Identify anatomy demonstrated in both student and instructor case study presentations.
  
- C. Unit III. Case Studies – Neurosonography
  1. Present three (3) case study examinations in the area of neurosonography to include patient films, reason exam was ordered, history and laboratory data where applicable.
  2. Identify normal and abnormal pathological processes on case studies presented by the instructor.
  3. Explain differential diagnostic information that could be used to assist the sonographer in the diagnoses.

4. Identify other modalities of radiology that could be used as a source of additional information.
  5. Identify anatomy demonstrated in both student and instructor case study presentations.
- D. Unit IV. Case Studies – Abdomen and Small Parts
1. Present five (5) case study examinations in the area of abdomen and small parts to include patient films, reason exam was ordered, history and laboratory data where applicable.
  2. Identify normal and abnormal pathological processes on case studies presented by the instructor.
  3. Explain differential diagnostic information that could be used to assist the sonographer in the diagnoses.
  4. Identify other modalities of radiology that could be used as a source of additional information.
  5. Identify anatomy demonstrated in both student and instructor case study presentations.
- E. Unit V. Advancements in the Field of Ultrasound
1. Identify recent advancements in the field of ultrasound specific to
    - a. The overall system
    - b. The transducer
    - c. Imaging film
  2. Describe new procedures that have been discussed at conferences, in journals, and so on, that are not widely used in the ultrasound fields
  3. Describe advancements in the field of ultrasound equipment manufacturing that will increase sonographer efficiency.
  4. Identify recent advancements in ultrasound not related to the medical field (such as testing metals for flaws in structural engineering, creating of zero-gravity states for super heating experiments on Earth instead of in space, and the use of sound absorbing characteristics in the design of the Stealth Bomber).
  5. Follow all PACS protocols.

### **III. THECB Learning Outcomes (WECM)**

1. Describe selected advanced sonographic practices and procedures and apply these to case study interpretation and review.
2. Compare and contrast various sonographic and other imaging modalities.

### **IV. Evaluation**

A. Pre-assessment

There is no pre-assessment for this course.

B. Post-assessment

Post-assessment follows the completion of two (2) units. Written examinations are used, including multiple choice, completion, matching, true/false and brief essay questions.

C. Challenge Exam

There is no challenge exam for this course.

D. Grading Scale

A = 100 – 92

B = 91 - 83

C = 82 – 75

F = below 74

No grade of less than “C” will be considered as successful completion of a professionally related course. Grades .5 or higher will be rounded off to the next whole number grade.

E. Final Grade Determination

Take Home Exams and Pop Quizzes	20% of final grade
Case Studies	30% of final grade
Unit Exams	25% of final grade
Comprehensive Final	<u>25% of final grade</u>
	100%

F. Exams

All exams are written and consist of the following formats: Multiple choice, true-false, matching, essay, or a combination of any of the preceding

NO RE-TESTS ARE GIVEN.

An exam missed because of an excused absence must be made up on the day that the student returns to class. An exam missed because of an unexcused absence may not be made up and the student will receive a grade of zero (0) for that exam.

Frequent unannounced pop quizzes are given at the beginning of the class period. Tardiness or absence on these days results in a zero (0) on that particular pop quiz. No pop quizzes, under any circumstances, may be made up.

G. Cheating

Any student caught cheating will have his/her exam withdrawn and given a zero (0) for that exam.

H. Attendance

An absence is considered excused if the student informs the instructor of his/her absence before that class period begins.

**An accumulation of three unexcused absences warrants the student being dropped from the class for excessive absences.**

I. Tardiness

Tardiness is defined as being one (1) minute or more late to class. Students tardy in excess of 10 minutes are considered absent.

V. **Disability Statement (Americans with Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. **6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.