



**Coleman College for Health Sciences**  
**Diagnostic Medical Sonography Program**  
**Course Syllabus**  
**DMSO 2342 High Risk Obstetrics Sonography**  
 CRN 72042 - Summer 2018  
 Coleman Campus – Lecture Room 711 Lab Room 711  
 Lecture: Thursday 8:00 to 10:00am Lab: Friday 1-3:30 pm  
 3 lecture/ 48 hours per semester

<b>Instructor contact information (phone number and email address)</b>	<p>Lucy Quinn, RDMS          713-718-7343  <a href="mailto:lucy.quinn@hccs.edu">lucy.quinn@hccs.edu</a></p> <p><b>Timeline for response to email: Response time is 72 hours (3days) not including weekends or holidays.</b></p> <p>Please feel free to contact me concerning any problems that you are experiencing in this course. You do not need to wait until you have received a poor grade before asking for our assistance. Your performance in our class is very important to me. I am available to hear your concerns and just to discuss course topics. Feel free to come by my offices anytime during these hours.</p>
<b>Office Location and Hours</b>	<p>Lucy Quinn          Office location: Room 509          Office Hours: Friday 8:00 am to 1:00 pm</p>
<b>Type of Instruction</b>	<p>Practicum          In-person</p>
<b>Course Description:</b>	<p>Maternal disease and fetal abnormalities. Includes scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols.</p>
<b>Course Prerequisite(s)</b>	<p><b>PREREQUISITE(S):</b></p> <ul style="list-style-type: none"> <li>• DMSO 2405</li> </ul> <p><b>FREQUENT REQUISITES</b></p> <ul style="list-style-type: none"> <li>• Departmental approval</li> <li>• Admission to the Program</li> <li>• College Level Reading</li> </ul>

	<ul style="list-style-type: none"> <li>• College Level Mathematics</li> <li>• College Level Writing</li> </ul>
<b>Academic Discipline/CTE Program Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Provide basic patient care and practices in general diagnostic medical sonography, including employ professional judgment, ethics and communication skills.</li> <li>2. Recognize sonographic appearance and/or Doppler patterns of normal structures, disease processes, and pathologies.</li> <li>3. Apply acoustic physics and Doppler ultrasound principles to operate the ultrasound machine.</li> <li>4. Perform sonographic examinations according to protocols.</li> </ol>
<b>Course Student Learning Outcomes (SLO): 4 to 7</b>	<ol style="list-style-type: none"> <li>1. Identify normal and abnormal fetal and maternal structures.</li> <li>2. Identify pertinent measurement techniques and scanning techniques using standard protocols.</li> <li>3. Evaluate patient history and laboratory data as it relates to ultrasound.</li> </ol>
<b>Learning Objectives (Numbering system should be linked to SLO - e.g., 1.1, 1.2, 1.3, etc.)</b>	<p><b>Identify and differentiate normal and abnormal fetal and maternal structures.</b></p> <ol style="list-style-type: none"> <li>1.1 Describe the maternal and fetal factors for a pregnancy that is normal</li> <li>1.2 Describe the maternal and fetal factors for a pregnancy that is high risk</li> </ol> <p><b>Demonstrate pertinent measurement techniques and scanning techniques using standard protocols.</b></p> <ol style="list-style-type: none"> <li>2.1 List and describe imaging techniques and sonographic findings for the placenta, umbilical cord, and the amniotic fluid</li> </ol> <p><b>Evaluate patient history and laboratory data as it relates to ultrasound.</b></p> <ol style="list-style-type: none"> <li>3.1 describe the methods of genetic testing, including maternal serum markers, chorionic villus sampling, and amniocentesis</li> </ol>
<b>SCANS and/or Core Curriculum Competencies: If applicable</b>	<p>SCANS</p> <p><b>Identify and differentiate normal and abnormal fetal and maternal structures.</b> Foundation Skills - Basic -Listening Foundation Skills - Thinking -Seeing Things in the Mind's Eye</p> <p><b>Demonstrate pertinent measurement techniques and scanning techniques using standard protocols.</b> Foundation Skills - Basic -Reading</p> <p><b>Evaluate patient history and laboratory data as it relates to ultrasound.</b> Foundation Skills - Basic -Reading</p>

**Course Calendar**

<b>Date</b>	<b>Chapter</b>	<b>Homework</b>
Week 1	Ch. 19: Fetal Neural Tube Structures Ch. 23: Abnormal Fetal Limbs	
Week 2	<b>Test 1</b>	Week 1 homework due
Week 3	Ch. 21: Abnormal Fetal Chest, ABD, & Pelvis Ch. 22: Fetal Echocardiography	
Week 4	<b>Test 2</b>	Week 3 homework due
Week 5	Ch. 26: Multiple Gestations Ch. 24: Fetal Doppler	
Week 6	<b>Test 3</b>	Week 5 homework due
Week 7	Ch. 27: IUGR Ch. 28: Fetal Anomalies	
Week 8	<b>Test 4</b>	Week 7 homework due
Week 9	Ch. 29: Effects of maternal Disease on Pregnancy	
Week 10	<b>Test 5</b>	Week 9 homework due

\*\* Instructor reserves the right to change course calendar and syllabus at any time \*

**Instructional Methods**

Web-enhanced (49% or less)  
Face to Face  
In-person

<b>Student Assignments</b>	<p><b>Identify and differentiate normal and abnormal fetal and maternal structures.</b> Discussions / Homework Exercises / Readings</p> <p><b>Demonstrate pertinent measurement techniques and scanning techniques using standard protocols.</b> Discussions / Homework Exercises / Readings</p> <p><b>Evaluate patient history and laboratory data as it relates to ultrasound.</b> Discussions / Homework Exercises / Readings</p>								
<b>Student Assessment(s)</b>	<p><b>Identify and differentiate normal and abnormal fetal and maternal structures.</b> Various assigned readings from textbooks In-class discussions Quizzes/Tests which may include: definitions, matching, multiple choice, true/false, short answer, brief essay</p> <p><b>Demonstrate pertinent measurement techniques and scanning techniques using standard protocols.</b> Various assigned readings from textbooks In-class discussions Quizzes/Tests which may include: definitions, matching, multiple choice, true/false, short answer, brief essay</p> <p><b>Evaluate patient history and laboratory data as it relates to ultrasound.</b> Various assigned readings from textbooks In-class discussions Quizzes/Tests which may include: definitions, matching, multiple choice, true/false, short answer, brief essay</p>								
<b>Instructor's Requirements</b>	<ul style="list-style-type: none"> <li>• Students are expected to follow the program rules and regulations as outlined in the program's Student Handbook for Dress Code, Professional Conduct, and the Disciplinary Guidelines.</li> <li>• The Disciplinary Guidelines will apply in this course. Please see the Disciplinary Guidelines in the attachment.</li> <li>• Nomenclature for naming files when paper are uploaded: please put your first name when saving the assignment, such as Elizabeth Journal 1.docx. Papers without names will not be accepted</li> <li>• Submission of assignment in Word document or PDF only (.doc, .docx, .pdf). Other formats will not be accepted and will be considered as late work.</li> <li>• If you have any questions or are unclear of any topic regarding this class, please come see the instructor first before going to any other instructors. After you met with instructor, if you feel that your concerns have not been met, then you are free to discuss your concerns with the Program Director of the DMSO program.</li> </ul>								
<b>Program/Discipline Requirements: If applicable</b>	<p>Refer to the DMSO Student Handbook and the Disciplinary Guidelines.</p>								
<b>HCC Grading Scale:</b>	<table border="0"> <tr> <td>A = 100- 90</td> <td>4 points per semester hour</td> </tr> <tr> <td>B = 89 - 80:</td> <td>3 points per semester hour</td> </tr> <tr> <td>C = 79 - 70:</td> <td>2 points per semester hour</td> </tr> <tr> <td>D = 69 - 60:</td> <td>1 point per semester hour</td> </tr> </table>	A = 100- 90	4 points per semester hour	B = 89 - 80:	3 points per semester hour	C = 79 - 70:	2 points per semester hour	D = 69 - 60:	1 point per semester hour
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D = 69 - 60:	1 point per semester hour								

<b>DMSO Grading Scale:</b>	59 and below = F	0 points per semester hour
	FX (Failure due to non-attendance)	0 points per semester hour
	IP (In Progress)	0 points per semester hour
	W (Withdrawn)	0 points per semester hour
	I (Incomplete)	0 points per semester hour
	AUD (Audit)	0 points per semester hour
	<b>Health Sciences Programs Grading Scales may differ from the approved HCC Grading Scale. For Health Sciences Programs Grading Scales, see the "Program Discipline Requirements" section of the Program's syllabi.</b>	
	A = 100- 90	4 points per semester hour
	B = 89 - 80:	3 points per semester hour
	<b>80 or higher to progress in the DMSO program</b>	
C = 79 - 70:	2 points per semester hour	
D = 69 - 60:	1 point per semester hour	
59 and below = F	0 points per semester hour	
FX (Failure due to non-attendance)	0 points per semester hour	
IP (In Progress)	0 points per semester hour	
W (Withdrawn)	0 points per semester hour	
I (Incomplete)	0 points per semester hour	
AUD (Audit)	0 points per semester hour	
<i>IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses.</i>		
<i>FINAL GRADE OF FX: Students who stop attending class and do not withdraw themselves prior to the withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of "FX" at the end of the semester. Students who stop attending classes will receive a grade of "FX", compared to an earned grade of "F" which is due to poor performance. Logging into a DE course without active participation is seen as non-attending. Please note that HCC will not disperse financial aid funding for students who have never attended class.</i>		
<i>Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of "FX" is treated exactly the same as a grade of "F" in terms of GPA, probation, suspension, and satisfactory academic progress.</i>		
<i>To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.</i>		
<i>Health Sciences Programs Grading Scales may differ from the approved HCC Grading Scale. For Health Sciences Programs Grading Scales, see the "Program Discipline Requirements" section of the Program's syllabi.</i>		

<b>Instructor Grading Criteria</b>	<p><b>GRADE DETERMINATION:</b></p> <table border="0"> <tr> <td>Classroom Assignments</td> <td>25%</td> </tr> <tr> <td>Tests</td> <td>75%</td> </tr> </table> <ul style="list-style-type: none"> <li>• Ten (10) points will be deducted for incomplete forms or assignments. Incomplete forms or assignments will be returned to the students and the students will have one week to correct it. If the students do not return the completed form or assignment, it will be considered late work.</li> <li>• Late work will be accepted with 20 points deductions within 7 days after the due date. Late work will not be accepted after that.</li> <li>• It is the responsibility of the students to make sure that all forms or assignments get submitted under the appropriate tab in Canvas.</li> <li>• The instructors will not accept assignments or any course work through e-mail, Canvas or HCC, without prior knowledge.</li> </ul>	Classroom Assignments	25%	Tests	75%
Classroom Assignments	25%				
Tests	75%				

<b>Instructional Materials</b>	<p>Diagnostic Medical Sonography Obstetrics and Gynecology  Susan Raatz Stephenson  Lippincott William &amp; Wilkins Publisher  3<sup>rd</sup> Edition 2012  ISBN: 978-1-60831-117-0</p>
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**HCC POLICIES**

**ATTENDANCE**

Research has shown that the single most important factor in student success is attendance! Therefore, attendance and punctuality are mandatory. HCCS policy states that students absent from this course for more than 12.5% of the total hours of instruction will be administratively dropped. This class has 256 contact hours. A student may be dropped after 32 hours of absence from lab and lecture combined. Any student is absent from the class for more than 25% on one class session will be counted absent for the day. (30 minutes for lecture and 90 minutes for lab)

Poor attendance records tend to correlate with poor grades. If you miss any class, you are responsible for all material missed. It is good idea to find a friend or a buddy in class who would be willing to share class notes or discussion or be able to hand in paper if you unavoidable miss a class.

**BASIC NEEDS SECURITY**

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable us to provide any resources that HCC may possess.

**3-PEATERS**

The State of Texas encourages students to complete college without having to repeat failed classes. To increase student success, students who repeat the same course more than twice, are required to pay extra tuition. The purpose of this extra tuition fee is to encourage students to pass their courses and to graduate. Effective fall 2006, HCC has been charging a higher tuition rate to students registering the third or subsequent time for a course. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as

early as possible about your study habits, reading and writing homework, test taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available.

### **WITHDRAWAL**

If you feel that you cannot complete this course, you will need to withdraw from the course prior to the final date of withdrawal. Before you withdraw from your course, please take time to meet with the instructor to discuss why you feel it is necessary to do so. The instructor may be able to provide you with suggestions that would enable you to complete the course. Your success is very important. Beginning in fall 2007, the Texas Legislature passed a law limiting first time entering freshmen to no more than SIX total course withdrawals throughout their educational career in obtaining a certificate and/or degree.

### **COUNSELING AND GUIDANCE**

HCCS maintains a staff of professional counselors to assist students. Specific counseling and guidance services are detailed in the HCCS Student Handbook. The Sonography program students may visit the counseling department in room 144 on the first floor of the Coleman College for Health Sciences.

### **SEXUAL MISCONDUCT**

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX and Section 504), and complaints may be directed to:

David Cross  
Director of EEO/Compliance  
Office of Institutional Equity & Diversity  
3100 Main  
Houston, TX 77266-7517 or Institutional.Equity@hccs.edu

### **ADA INFORMATION**

HCCS recognizes its responsibility not to discriminate against anyone who has a documented disability that substantially limits one or more major life activities; has a record of such impairment; or is regarded as having an impairment.

Specific policies enable students with documented disabilities who are otherwise qualified, to request accommodations, which would allow them equal access to the College under Section 504 of the Rehabilitation Act of 1973, and under the Americans with Disabilities Act of 1990.

Obtaining reasonable accommodations is an interactive process. It begins with the student's disclosure of his/her disability directly with the ADA Counselor in Ability Services, which is located in room 101 of the Learning Success Center (LSC). The ADA Counselor may also be reached by phone at (713) 718-7376. Once accommodations are in place, instructors should receive a new, updated letter of accommodation within the first three days of each semester.

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculties are authorized to provide only

the accommodations requested by the Disability Support Services Office. If you have any questions, please contact the Ms. Brandy Lerman (email: [b.lerman@hccs.edu](mailto:b.lerman@hccs.edu)) at 713-718-7376.

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <http://www.hccs.edu/district/students/disability-services/>

### **EARLY ALERT**

To help students avoid having to drop//withdraw from any class, HCC has instituted an Early Alert process by which your professor may “alert” you and HCC counselors that you might fail a class because of excessive absences and/or poor academic performance. It is your responsibility to visit with your professor or a counselor to learn about what, if any, HCC interventions might be available to assist you- online tutoring, child care, financial aid, job placement, etc. – to stay in class and improve your academic performance.

### **TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, 20 U.S.C. A§ 1681 ET. SEQ.**

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status-in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross  
Director EEO/Compliance  
Office of Institutional Equity & Diversity  
3100 Main  
(713) 718-8271  
Houston, TX 77266-7517 or Houston, TX 77266-7517 or [Institutional.Equity@hccs.edu](mailto:Institutional.Equity@hccs.edu)

### **HOUSE BILL 1508**

Texas HB 1508 requires the following information be given to students. If you are applying for admission to a program that prepares an individual for an initial occupational license or certification and/or if you later decide to change to a program that prepares you for an initial occupational license or certification, in accordance with state law, please be advised of the following:

1. An individual who has been charged or convicted of an offense or who is on probation may not be eligible for issuance of an occupational license or certification upon completion of the educational program.
2. It is the responsibility of the individual to immediately report to the program any change in status that would affect that individual's eligibility to apply for a license or certification.
3. Local, state or national licensing and certification authorities may issue additional guidelines related to criminal history. Applicants should contact their respective licensing or certification authority for



more details.

Most health care programs require all students, admitted to the program, to submit to a national background check which may include fingerprinting. Applicants are encouraged to review all applicable eligibility requirements related to the respective occupational license or certification. Questions related to eligibility requirements should be directed to the individual program and applicable licensing or certification authority.

### **CAMPUS CARRY LAW**

At HCC the safety of our students, staff, and faculty is our first priority. As of August 1, 2017, Houston Community College is subject to the Campus Carry Law (SB11 2015). For more information, visit the HCC Campus Carry web page at <http://www.hccs.edu/district/departments/police/campus-carry/>.

### **PEER TUTORING**

Peer tutoring is available for all students in this course. Please contact Baharah Omidvar to schedule for tutoring.

Email: [b\\_omidvar2002@yahoo.com](mailto:b_omidvar2002@yahoo.com)

### **EGLS3- Evaluation for Greater Learning Student Survey System**

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Go to [www.hccs.edu/egls3](http://www.hccs.edu/egls3) for more information.

### **Access Student Services Policies on their Web site:**

<http://hccs.edu/student-rights>

<http://central.hccs.edu/students/student-handbook/>

<http://library.hccs.edu/home>

### **Distance Education and/or Continuing Education Policies**

#### **Access DE Policies on their Web site:**

[http://de.hccs.edu/Distance\\_Ed/DE\\_Home/faculty\\_resources/PDFs/DE\\_Syllabus.pdf](http://de.hccs.edu/Distance_Ed/DE_Home/faculty_resources/PDFs/DE_Syllabus.pdf)

#### **Access CE Policies on their Web site:**

<http://hccs.edu/CE-student-guidelines>

**Your instructor(s) may make changes to the syllabus after reasonable notice is provided to the students.**