

**\*Special Permission Required\***

<b>Course Description</b>	<p>This course will serve as an introduction to emergency bedside ultrasound. Students will be introduced to the core and advanced applications of bedside ultrasound. Students will also receive training in general ultrasound physics, image acquisition, and image interpretation.</p> <p><b><i>*This course will be graded as Pass/Fail</i></b></p>
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Demonstrate understanding of basic ultrasound physics</li> <li>• Understand the indications for performing a bedside ultrasound examination</li> <li>• Demonstrate how to appropriately drape patients and be respectful of patient comfort and privacy while performing ultrasound examinations</li> <li>• Develop familiarity with basic image acquisition. Students will learn basic operation of the ultrasound machine, how to select the proper probe, how to adjust the gain and depth to optimize the image, and proper probe placement on the patient</li> <li>• Develop familiarity with image interpretation. <ul style="list-style-type: none"> <li>○ Learn to identify key anatomic landmarks for studies such as FAST, AAA, cardiac, biliary, renal, thoracic, and soft tissue/abscess</li> <li>○ Learn to identify the key ultrasonographic findings used to diagnose conditions such as cholecystitis, pneumothorax, pericardial effusion, hydronephrosis, ascites, AAA, abscess, and foreign body</li> <li>○ Learn to identify free fluid (ascites or blood) on an abdominal ultrasound</li> <li>○ Learn to identify free fluid (pleural effusion or hemothorax) on a thoracic ultrasound</li> <li>○ Learn the types of ultrasound artifacts and their role in image acquisition</li> <li>○ Perform at least 20 independent ultrasound examinations</li> </ul> </li> </ul>
<b>Course Activities</b>	<ul style="list-style-type: none"> <li>• Completion of all online lectures and their associated quizzes</li> <li>• Participation in at least one half-day ultrasound session in the simulation lab (offered monthly for medical students)</li> <li>• At least two 6-8 hour supervised scanning shifts in the Emergency Department</li> </ul>
<b>Course Schedule Requirements</b>	<p>There is no call required. Student should be available Monday- Friday from 8:00 am till 5:00 pm. Hours outside of these may be available based on</p>



	health team member availability and will be discussed and decided on by both the student and course director at the beginning of the course.
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<b>Duration</b>	2 weeks	<b>Location</b>	BSOM Clinical Simulation Center, Vidant Medical Center
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<b>Designation</b>	Elective	<b>Revised</b>	02.18.2021
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