

# Course Competency

## SON 2139L Cardiovascular Principles

### Course Description

Students will participate in the various type of continuing education. This may include: society meetings, seminars, conferences and in-services. (2 h r. lab)

Course Competency	Learning Outcomes
<p><b>Competency 1:</b>The student will demonstrate knowledge and comprehension of the Physician's physical exam by:</p> <ul style="list-style-type: none"> <li>a. Describing the physical exam.</li> <li>b. Describing cardiac symptoms.</li> <li>c. Recognizing stethoscope positions for</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>d. Recognizing physical signs of cardiac disease.</li> </ul>	
<p><b>Competency 2:</b>The student will demonstrate knowledge and comprehension of Cardiac Stress Tests by:</p> <ul style="list-style-type: none"> <li>a. Explaining the role of cardiac stress test.</li> <li>b. Explaining the indications for cardiac stress test.</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>c. Explaining the basic procedures of cardiac stress test.</li> </ul>	
<p><b>Competency 3:</b>Demonstrate knowledge and comprehension of EKG by:</p> <ul style="list-style-type: none"> <li>a. Identifying the PQRST waves.</li> <li>b. Identifying the origins of arrhythmias.</li> <li>c. Identifying the appearance of multiple arrhythmias.</li> <li>d. Measuring HR on EKG's.</li> <li>e. identifying the instruments used in EKG.</li> <li>f. Identifying arrhythmias presented and identifying where they originated.</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>g. Recognizing fibrillation, tachycardia, and flutter.</li> <li>h. Recognizing ventricular fibrillation.</li> <li>i. Comparing ventricular fibrillation and atrial fibrillation.</li> </ul>	

<p><b>Competency 4:</b>Demonstrate knowledge and comprehension of cardiac Heart Sounds by:</p> <ul style="list-style-type: none"> <li>a. Defining S1, S2, S3, S4 sounds.</li> <li>b. Explaining the steps in evaluating for abnormal heart sounds</li> <li>c. Listing categories of murmurs.</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>d. Listing associated pathologies with each murmur presented.</li> </ul>	
<p><b>Competency 5:</b> Demonstrate knowledge and comprehension of Nuclear Medicine studies by:</p> <ul style="list-style-type: none"> <li>a. Describing the nuclear medicine and it use in imaging.</li> <li>b. Describing the nuclear medicine studies used for cardiac anomalies.</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>c. Describing what can be diagnosed by nuclear medicine examinations.</li> </ul>	
<p><b>Competency 6:</b>Demonstrate knowledge and comprehension and application of cardiac catheterization studies and reports by: Discussing cardiac catheterization.</p> <ul style="list-style-type: none"> <li>a. Comparing and contrasting results from cardiac catheterization and echocardiography.</li> <li>b. Recognizing abnormal pressure gradient curves and identifying the cardiac lesion involved.</li> </ul>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> <li>c. Identifying abnormal wigger’s diagrams for aortic stenosis, aortic regurgitation, mitral stenosis, and mitral regurgitation.</li> </ul>	

Updated: SPRING 2024