

<b>Competency</b>		<b>Knowledge</b>
<b>Subdomain</b>		<b>Fundamental Knowledge and Clinical Reasoning</b>
<b>Learning Objective</b>		<ol style="list-style-type: none"> <li>1. Applies core scientific knowledge * acquired and integrated at the molecular, cellular, organ-system, individual, and population levels to diagnose and treat disease</li> <li>2. Engages in clinical reasoning based on an understanding of the patient, pathophysiology, application of sound scientific principles, and fundamental knowledge to solve problems</li> </ol>
<b>Year I</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Explains normal biology from the molecular to the individual (1)</li> <li>- Understands the approach to solving simple clinical cases, integrating core scientific knowledge* (1, 2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Uses understanding of disease mechanisms *and patient specific data** to address simple clinical cases (1, 2)</li> <li>- Explains how the principles of scientific discovery can be applied to basic clinical problems (2)</li> </ul>
<b>Year II</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Lists types of common cognitive errors in medical decision-making (2)</li> <li>- Applies core scientific knowledge * to interpretation of core clinical problems), addressing the pathophysiology and etiology (1, 2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Applies knowledge of the principles of scientific discovery to interpretation of basic clinical problems (2)</li> <li>- Integrates understanding of core scientific knowledge*, patient specific data **, and population-based factors to solve simple clinical cases and make decisions for patient care (1, 2)</li> </ul>
<b>Year III</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Integrates core scientific knowledge* to gather and accurately interpret patient data and manage clinical problems (1,2)</li> <li>- Recognizes common cognitive errors in patient care<sup>†</sup> (2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Applies core scientific knowledge* to problem solving in a dynamic clinical environment<sup>†</sup> and addressing core clinical problems for each major specialty) (1, 2)</li> <li>- Monitors and avoids common cognitive errors) (2)</li> </ul>
<b>Year IV</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Utilizes principles of scientific discovery to analyze and solve complex clinical problems (2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Integrates understanding of core scientific knowledge*, patient specific data**, and population-based factors to solve complex clinical problems (1, 2)</li> </ul>