

<b>Competency</b>		<b>Knowledge</b>
<b>Subdomain</b>		<b>Principles of Scientific Discovery</b>
<b>Learning Objective</b>		<ol style="list-style-type: none"> <li>1. Recognizes the central importance of discovery and understands how current medical knowledge is scientifically justified and evolves</li> <li>2. Critically appraises and incorporates new information in the practice of evidence-based medicine</li> </ol>
<b>Year I</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Describes scientific reasoning and its application to medicine and basic biological principles (1)</li> <li>- Describes hypothesis development (1)</li> <li>- Identifies examples of on or off campus expertise in leading edge research *(1, 2)</li> <li>- Explains the value of scholarship as a critical professional responsibility (1)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Describes the basic components of medical manuscripts in a peer reviewed journal (1, 2)</li> <li>- Identifies resources to find critically accepted medical information (2)</li> <li>- Explains how current medical knowledge is scientifically justified and how that knowledge evolves (1)</li> </ul>
<b>Year II</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Compiles the appropriate primary literature to address a scientific question (1, 2)</li> <li>- Describes hypothesis testing (1)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Describes skills required for communication in the fields of medicine and scientific inquiry)** (1, 2)</li> </ul>
<b>Year III</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Applies scientific reasoning skills and technology to promote evidence based medical practice (1, 2)</li> <li>- Describes the ethical principles of clinical and translational research in patient care (2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Discuss strategies and limitations of applying new scientific information into clinical practice (1, 2)</li> <li>- Critically appraises a peer reviewed article and adequately presents it in a journal club setting (1, 2)</li> </ul>
<b>Year IV</b>	<b>Mid</b>	<ul style="list-style-type: none"> <li>- Explains how to engage in medical research at this medical school and beyond (1)</li> <li>- Develops a testable hypothesis and/or clinical question for research (1, 2)</li> <li>- Demonstrates skills required for communication in the fields of medicine and scientific inquiry)** (1, 2)</li> </ul>
	<b>End</b>	<ul style="list-style-type: none"> <li>- Critically appraises and presents a peer reviewed article and applies findings to patient care in a journal club setting (1, 2)</li> <li>- Writes and presents a scholarly (research or clinically based) abstract (1, 2)</li> </ul>