

Medical Knowledge and Scholarship

Our graduates will demonstrate knowledge of the scientific basis of medicine, the ability to apply knowledge to patient care and contribute to scholarship in medicine through research or teaching.

FSM graduates will:

<p>1. Demonstrate a progressive mastery of clinically relevant scientific knowledge of the normal structure and function of the body, mechanisms of disease, therapeutic interventions, disease prevention and health promotion, including:</p> <ul style="list-style-type: none"> a. Clinically relevant knowledge of the normal structure and function of the body at the molecular, cellular, organ, and system levels. b. Knowledge of the mechanisms (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of mental and physical illness. c. Knowledge of how illness and injury affect function and quality-of-life. d. Knowledge of the clinical and laboratory manifestations of illness. e. Knowledge of pharmacology and other therapeutic modalities. f. Knowledge of epidemiology, biostatistics and the principles of primary, secondary, and tertiary prevention of illness for individuals and communities. 	<p>Core Knowledge</p>
<p>2. Efficiently identify knowledge gaps, utilize appropriate information sources and critically evaluate information and data, including:</p> <ul style="list-style-type: none"> a. Progressive skills for disciplined, continuous learning in order to stay current with evolving medical knowledge. b. The ability to identify personal and/or group gaps in knowledge or information necessary to solve problems and diagnose/treat/prevent illness. 	<p>Information Management</p>
<p>3. Demonstrate a progressive ability to apply knowledge to scientific and clinical reasoning in order to solve problems and prevent/diagnose/manage illness according to evidence-based principles, including the ability to:</p> <ul style="list-style-type: none"> a. Apply knowledge to solve clinically relevant problems. b. Apply prevention strategies to improve the health of individuals. c. Apply knowledge to diagnose illness. d. Apply knowledge to treat illness and improve quality of life. 	<p>Clinical Reasoning and Application</p>
<p>4. Contribute to medical knowledge through research and the practice of evidence-based teaching and learning, including:</p> <ul style="list-style-type: none"> a. Scholarship through a faculty-mentored research or education project and appropriately disseminate findings. 	<p>Scholarship</p>
<ul style="list-style-type: none"> b. Evidence-based teaching and learning by imparting knowledge to others as well as by participating in activities to improve the teaching and learning skills of themselves and others. 	<p>Teaching</p>