

PREMEDICINE, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Learning Objectives

- Builds foundation in living systems and human behavior; applies knowledge and skill related to molecular and macro systems including biological organisms, biochemical reactions, and physical foundations of biological systems; applies knowledge of the self, others, and social systems related to the psychological, socio-cultural, and/or biological factors that influence health and well-being.
- Implement critical analysis and reasoning skills across academic disciplines; demonstrates critical and creative thinking and use the scientific approach to solve problems of biological, chemical, and physical nature; demonstrate critical thinking in the analysis, evaluation, and interpretation of information in the scientific literature; distinguish scientific and healthcare-related literature from other sources and discriminate among scientific claims presented in a variety of sources based on the strength of evidence; formulate and defend one's own scholarly opinion based on reading, interpreting, and synthesizing scientific literature; apply quantitative reasoning and appropriate mathematics to collect, organize, and/or explain scientific data.
- Develops facility in the language of science to participate in scientific discourse; listens effectively; adapts language and communication for lay and professional audiences in both written and oral formats; works collaboratively with others to solve biological, health, and interdisciplinary problems; shares information and knowledge with others and provides feedback; and/or participates in peer-review/ revising processes; prioritizes team goals over individual goals.
- Demonstrates an awareness of others' needs, goals, feelings, and the ways that social and behavioral cues affect peoples' interactions and behaviors; adjusts behaviors and communication appropriately; develops and demonstrates ethical and moral reasoning; shows an appreciation and respect for multiple dimensions of diversity; recognizes and acts on the obligation to inform one's own judgment; and/or examines ethical, political, and social issues in the research, implementation, and practice of medicine, medical technologies, and healthcare.
- Consistently fulfills obligations in a timely and satisfactory manner; takes responsibility for personal actions and performance; sets goals for continuous improvement (growth mindset); engages in reflective practice; responds to and appropriately integrates feedback; and/or actively seeks opportunities for personal and professional development to reinforce cultural humility, diverse perspectives, ethical considerations, content integration, communication and interpersonal skills, and thinking and reasoning.

**Built to align with the AAMC Core Competencies for Entering Medical Students.*