



VARUN NAIR

INTEGRATED SCIENCE
AMBASSADOR

3RD YEAR, MAJOR

THEME OF MY INTEGRATION:

Human Health from Complementary Lenses

Integrating genetics and global health allows me to gain a holistic appreciation for the delicate interplay between microscopic and macroscopic determinants of human health. By integrating such contrasting yet complementary lenses, I will be well-equipped for careers in healthcare, health research, and healthcare administration.

WHAT I AM INTEGRATING:

DISCIPLINE #1

Genetics:

Integrating genetics into my undergraduate education enables me to understand human health and its various determinants at a more microscopic, individual level. Therefore, I would gain a greater comprehension of the interplay between the genetic predisposition of several health conditions and their consequent outcomes on human health. Modern healthcare relies heavily on genetics and its associated tools and techniques for diagnosing, treating, and preventing several health phenomena, thus making genetics an important field of study for any aspiring student of the biomedical sciences.

DISCIPLINE #2

Global Health:

Studying global health at the undergraduate level provides insight into the intersecting nature of several large scale health determinants and how they factor into the health status of populations worldwide. Consequently, integrating global health provides me with a better awareness of many of the macroscopic influences on human health, such as the impacts of health policies, healthcare system modeling, and nutrition worldwide. Global health thus presents itself as a promising field of inquiry on my path to better understanding the multifaceted nature of human health.

SAMPLE CURRICULUM RATIONALE

BIOL 463 - Gene Regulation in Development

Epigenetics is a key focus of my genetics integration as this field has repeatedly presented itself as a highly promising area of biomedical research in recent years. This course examines the control of gene expression during development, specifically in relation to the various bases for epigenetic determination. In doing so, this course provides in-depth insights into the theories and techniques currently employed by geneticists worldwide. Understanding the processes by which genes are controlled and coordinated during human development will therefore be essential in ensuring a comprehensive and rich undergraduate education in genetics.

SPPH 481C - Special Topics in Population and Public Health - Prison Health

SPPH 481C seeks to contextualize the several facets of healthcare administered in prisons through various lenses (culture, policy, prerogatives, practices, and so on). Although a niche area, such thorough modeling of healthcare in prisons allows for an understanding of how other types of healthcare systems can be similarly examined. This course, therefore, provides a holistic appreciation for the many intricacies that must be considered when administering and analyzing healthcare today. Therefore, SPPH 481C not only provides a robust education in a wide range of global health concepts and applications but it also instills a uniquely expansive understanding of healthcare in modern contexts.

CONTACT

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