

HEBAH HUSSAINA

INTEGRATED SCIENCE
AMBASSADOR

5TH YEAR, MAJOR



THEME OF MY INTEGRATION:
Improving health policy for
children with neurodevelopmental
conditions

WHAT I AM INTEGRATING:

DISCIPLINE #1

Neurobiology:

This discipline involves looking at the molecular study and organization of the cells of the nervous system and how they process information to mediate behaviour. These courses allow me to understand the various aspects of the nervous system development at a cellular, behavioral, molecular, and physiological level. I can apply my knowledge to understanding the biological basis of various neurological disorders, which include neurodevelopmental conditions.

DISCIPLINE #2

Psychology:

With courses in psychology and neuroscience, I attempt to apply my knowledge to understand how biological aspects of the nervous system and changes in them affect neurodevelopmental conditions and the associated behavioural outputs.

DISCIPLINE #3

Public Health:

Taking courses through the School of Population and Public Health allows me to learn about assessing the existing socio-cultural conditions children with neurodevelopmental conditions may live in, and which may affect their health, and the various facets of developing effective public health policy.

SAMPLE CURRICULUM RATIONALE

PSYC 304—Brain and Behaviour

This course focus on biopsychology- exploring the function of the nervous system related to behaviour. Compared to neurobiology, biopsychology not only focusses on a molecular perspective but also a global perspective. This added a holistic aspect to my overall neuroscience knowledge, which is applicable not only to my knowledge of neurodevelopmental conditions but to daily life. This course counts for upper-level ISCI credits (but not Faculty of Science credits), which is very helpful!

SPPH 301 - Understanding the Sociocultural Determinants of the Health of Populations

This course outlines the key social determinants of population health and goes over the intersection between issues such as poverty, economic resources, education, policy, neighbourhood conditions, early child development, and access to housing. This was an eye-opening course and helped to set-up my future courses in public health, and it gave me a great foundation of issues to consider when setting up effective public health interventions.

CONTACT

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