

Science Program Revision

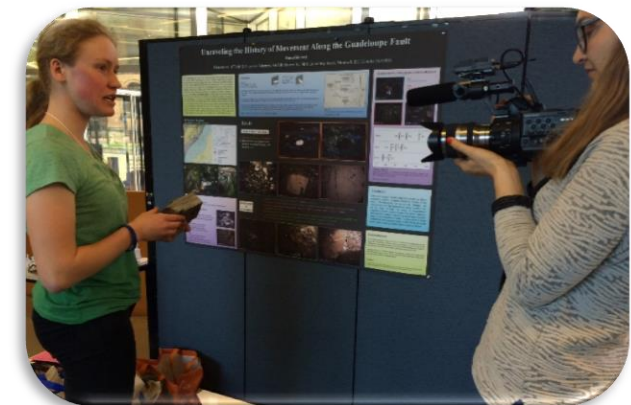
From 200.B0 to 200.B1 in Fall 2024

Guidance Counsellors Day

November 2023

Why a revision?

- 25 years since last revision (1998)
 - Time to update many competencies
- Universities asked for:
 - Basic understanding of probability and statistics, programming
- More interdisciplinarity
- More focus on basic academic work methods: communication, teamwork, digital literacy, study skills, ethical behaviour and the ability to use one's scientific knowledge as an informed citizen



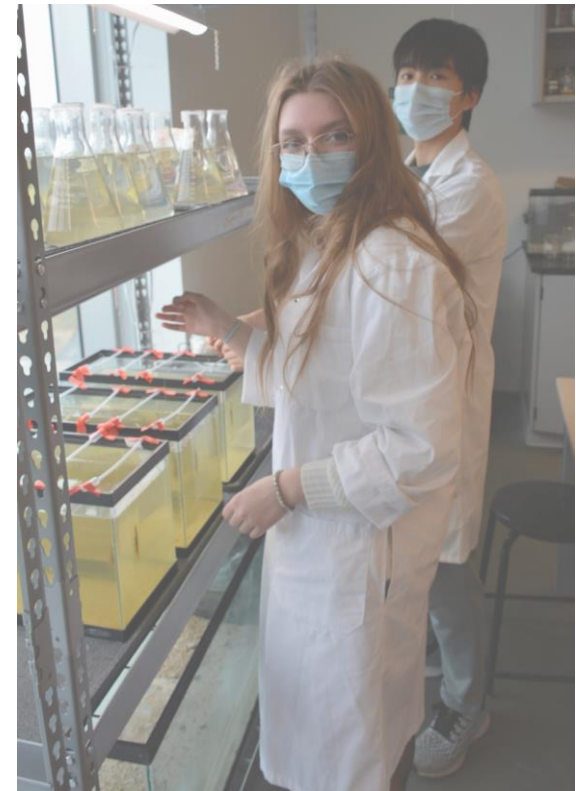
Philosophy

- We don't stream:
 - Today's science-bound students are increasingly studying in fields that require interdisciplinary thinking
- We want to help students:
 - Develop a solid foundation in scientific thinking from multiple disciplinary perspectives
 - Understand the interdisciplinary nature of science – it is not just chemistry or biology or physics
 - Become informed citizens, especially in the complex problems of today, and to solve issues collaboratively



Major changes

- Introduction of 45-hr courses: Statistics and Introduction to Computer Science, Ecology
- Reduction in hours of certain core courses: Calculus II, Chemistry of Solutions, Cell Biology, Electricity and Magnetism, # of option course (2 down from 3)
- Addition of capstone project course - 45 hours



Modeling interdisciplinarity

- Collaborative approach for 200.B1:
 - Interdisciplinary committee worked at identifying at cross-cutting laboratory skills, concepts and approaches
 - Common contexts so that disciplinary-specific approaches to problems are modelled
 - Interdisciplinary option courses



CEE action plan

- Our 200.B1 program will be closely linked to our college's Climate Action Plan:
 - Adopted a unique program goal (to be approved) addressing students requiring an understanding of the factors influencing climate change and other ecological challenges



Why JAC science?

- 90% accepted into 1st choice of university
- 96% of Science students satisfied with their college experience
- 94% of Science students would choose JAC Science again



Source: Davis, K., alumni survey results, as reported in Assessment of Program Relevance, 2022

Science program community

- Honours science, Double DEC and Pathways programs servicing different types of students who want to pursue science education
- Clubs: Science, Robotics, Space, and more!
- Student support: department-based peer tutoring, academic success centre and new STEM Lounge initiative
- Engagement with community partners
- Excellent student support services: Access Centre, Academic Advising, Peer Tutoring Centres, Career Counselling



Questions?

- For program questions:
 - Sean Hughes – Program coordinator
 - science@johnabbott.qc.ca or sean.hughes@Johnabbott.qc.ca
 - Karim Jaffer – Honours Science coordinator
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 - Roberta Silerova – Program dean
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- For admission questions: admissions@johnabbott.qc.ca