ADVANCED PLACEMENT (AP) INFORMATION SESSION

Wednesday, Dec. 10 6:45pm



WHAT IS AP?

- Opportunity for deeper more rigorous learning beyond the Alberta Programs of Study
- University style learning Research, Labs, and Critical Thinking
- Smaller classes with likeminded peers
- Blend of 30 level High School credits and first year University credits
- Flexibility to pursue one or more subjects
- Build a foundation for success at Post Secondary

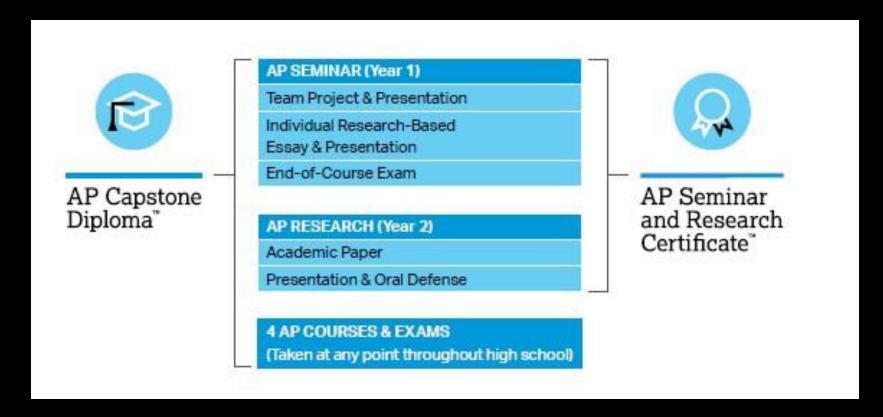
AP COURSES OFFERED AT QUEEN E:

- Math 20-1AP, Math 30-1/31/35AP
- Chemistry 20AP, Chemistry 30/35AP
- Physics 20AP, Physics 30/35AP
- Biology 20AP, Biology 30/35AP
- ELA 20-1/30-1/35AP
- AP Seminar *New in 2024
- AP Research *New for 2025

WHO SHOULD TAKE AP COURSES:

- Students who have a passion in a certain subject and want to pursue it more deeply
- Students with a strong academic foundation
- Students who receive Teacher Recommendation to take AP courses at the next level
- Students who have a strong work ethic and commitment to academic work
- Students who are looking for advanced credits in first year University
- Students who want to be better prepared for Post Secondary
- Students who want to...

WHAT IS AP CAPSTONE?



Encourage your children to engage in a lot of 'productive disagreement.'

-Greg Lukianoff, Jonathan Haidt

AP SEMINAR

- Learn to consider issues from multiple perspectives through multiple lenses
- Build skills in evaluating strengths and weaknesses in arguments
- Learn to identify credible sources of information
- Investigate a variety of topics and viewpoints
- Students will complete: a team research-based presentation, an individual written argument, an individual multimedia presentation, and a written end-of-course exam
- AP Seminar is a pre-requisite for AP Research

AP RESEARCH

- Students will explore various research methods and complete an independent research project
- Independent research projects can build on the topic/problem covered in AP
 Seminar or focus on a brand-new topic chosen by the student
- At the end of the project students will submit their academic paper and present/defend your research findings.
- There is no end-of-course exam for AP Research

EXAMPLES OF TOPICS

Here are some topics that students have chosen to investigate in **AP Seminar**:

- Effect of texting on grammar skills
- Food waste solutions
- Future of the automotive industry
- Importance of voting age and civic participation of teens
- Mathematics behind extreme sports
- Genetically modified organisms
- Role of art in education
- Wealth inequality

Visit the AP Seminar student home page at apstudent.org/seminar Here are some topics that students have chosen to investigate in **AP Research**:

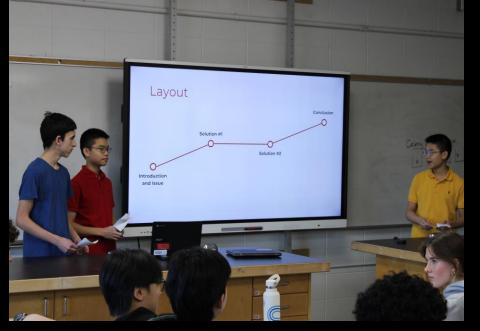
- 3-D printed prosthetics for amputees
- Algorithm of K-POP music
- Effects of sleep deprivation on academic achievement in teens
- Learning chemistry through musical chords
- Environmental injustice in subsidized housing
- Effect of popular opinion on the implementation of Supreme Court decisions

Visit the AP Research student home page at **apstudent.org/research**

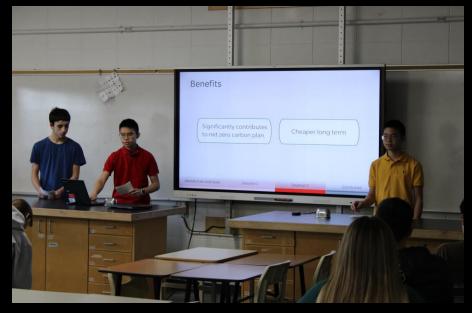


Team Multimedia Presentation

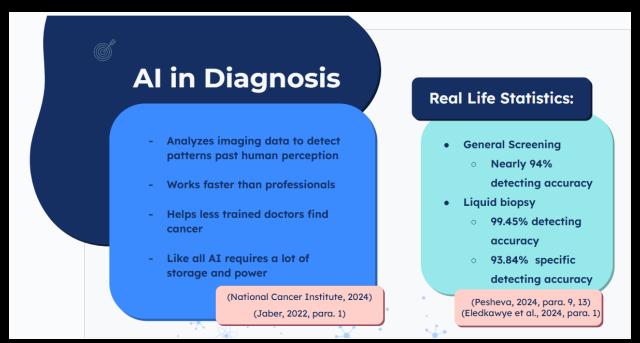
- investigating an issue and researching proposed solutions through a critical lens



Signposting presentation content



Discussing benefits of proposed solution



Samples of student work from Team Multimedia Presentations

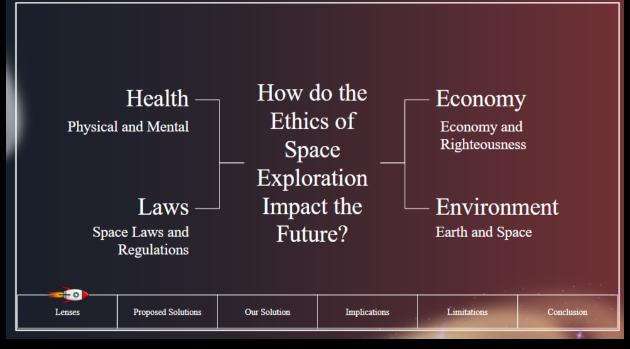
"No one is born hating another person because of the colour of his skin, or his background, or his religion.

People must learn to hate, and if they can learn to hate, they can be taught to love,

for love comes more naturally to the human heart than its opposite."

-Nelson Mandela

(Nelson Mandela Quotes We Love | unfoundation.org)





Samples of student work from Team Multimedia Presentations

Social Media and its Impact on Desensitization

 Vicarious Racism profoundly impacts youth, embedding it deep within society's psyche.



(nature.com)

(nih.gov).

Historical context

RACE

A social construct?

Classifies groups of people based on...

Geography

History

Politics

Economy

Physical Characteristics

Social/Cultural Elements

(Queen's Journal)

(Canadian Human Rights Commission)

TMP Group Expectations/Roles

- 1. Complete work on time. Work when needed!
- 2. Use time effectively! Work in class, don't leave it for home.
- 3. Work outside of class when needed
- 4. Daily check-in (keep in communication in and out of class)
- 5. Critique honestly, consistently and respectfully
- 6. Take breaks when needed (Your health comes before work)

If you don't:

A group talking-to so we do our best work on this project!!

Group roles:

Zahra: Recorder!

- How censorship of gender is affected by other perspectives

Finn: General quality! (overall feedback for presentation etc)

Censorship effect on education

Elli: aesthetics

BOOKS! Banning/challenging books.

Aleksei: Fact checker/citation person...

- Modern media

Students learn to set group norms, roles, and expectations when tackling a collaborative research task

THURSDAY, DECEMBER 5 INDIVIDUAL WORK DISCUSSED TMP - MADE OUTLINE - SET RELEVANCE, IMPORTANCE, ETC HOOK!!! EXPLAIN WHAT CENSORSHIP IS, HOW MISOGYNISTIC VIEWS IMPACT CENSORSHIP, INTRODUCE A LACK OF POLICY AND ESTABLISH A SOLUTION EARLY ON Perspectives - ELLIOTTE, ALEKSEI AND FINN IRR INTERSECTIONALITY - ZAHRA'S IRR TO CONNECT IT TO REAL WORLD Solution! - GOV. POLICY, DISCUSS IT IN TERMS OF THE STAKEHOLDERS IDENTIFIED - Conclusion! WENT OVER IRRS GROUP ROLES ALEKSEI CITATIONS + FACT CHECK PERSPECTIVE GENDER-BASED CENSORSHIP IN MODERN MEDIA + STAKEHOLDERS Conclusion - Ешотте MAKE SLIDES PRETTY INTRODUCTION

Students learn to distill broad research into meaningful, evidence-based arguments

WHY TAKE AP CAPSTONE?

- Students stand out on University applications because they demonstrate the critical thinking, communication, and research skills associated with AP Capstone
- Students stand out in Interviews because of the confidence, expertise and passion they demonstrate
- University admissions recognize that AP Capstone students know how to build evidence-based arguments, apply research methods, work in teams, deliver professional presentations, and complete long-term academic projects
- Students gain skills and confidence related to independent and team research and critical thinking

WHY TAKE ADVANCED PLACEMENT COURSES?

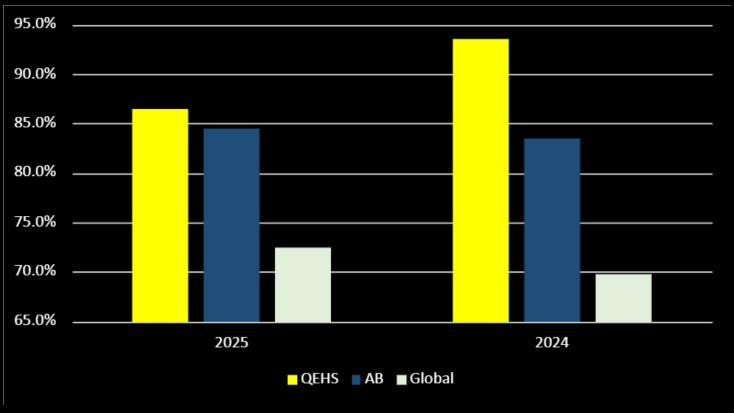
National Research Project Results:

- With only one AP exam, if students scored a three or higher, they outperform their peers by over 11% at the U of A
- Retention from first- to second-year goes up by 7% at UBC
- Students are 13% more likely to graduate in six years or less

Additional research:

- Higher first-year university grades (Beard, Hsu, Ewing, Godfrey, 2019)
- Higher performance in subsequent courses in the subject area of AP Exam (Wyatt, Jagesic, Godfrey, 2018)
- Higher 4-year graduation rate (Mattern, Marini, Shaw, 2013)

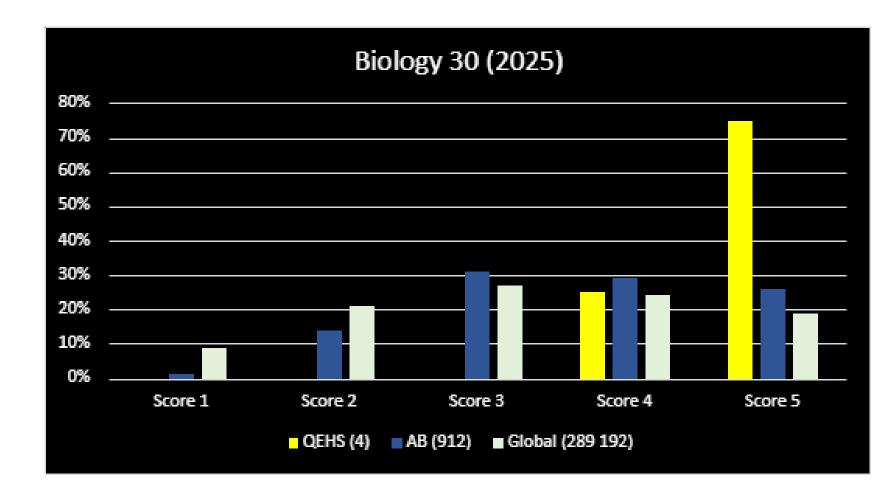
QEHS AP RESULTS



WEIGHTED COMPARATIVE AVERAGE OF SCORES
OF 3-OR-HIGHER

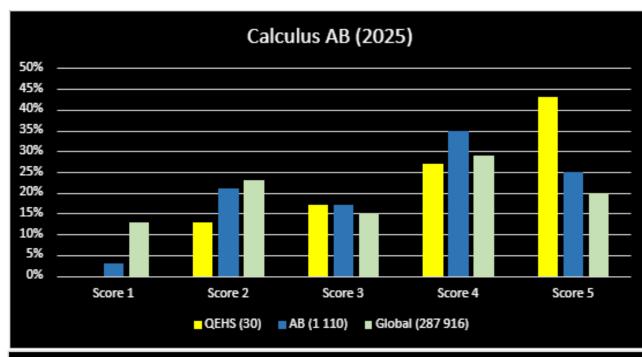
BIOLOGY

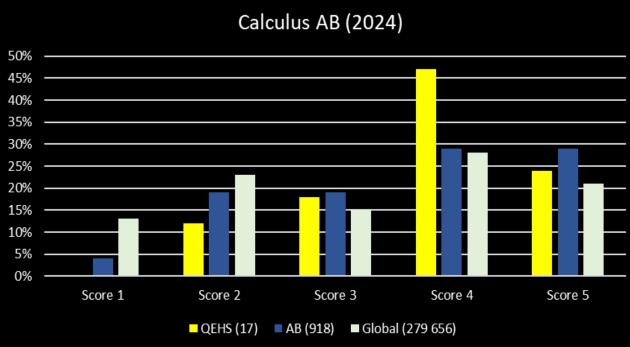
	Mean (2025)	3+ (2025)
QEHS	4.75	100.00%
AB	3.65	85.30%
Global	3.24	70.40%



CALCULUS AB

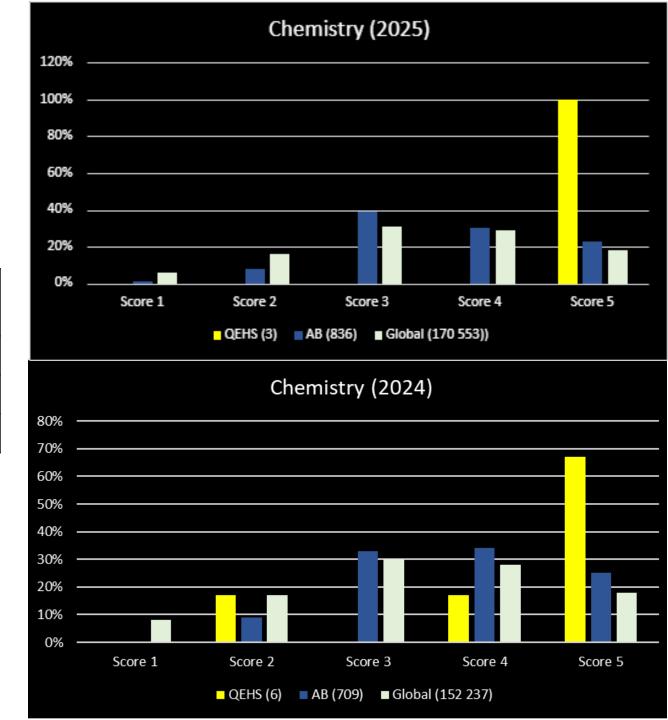
	Mean (2025)	3+ (2025)	Mean (2024)	3+ (2024)
QEHS	4.00	86.70%	3.82	88.20%
AB	3.57	76.10%	3.59	76.80%
Global	3.21	64.30%	3.22	64.50%





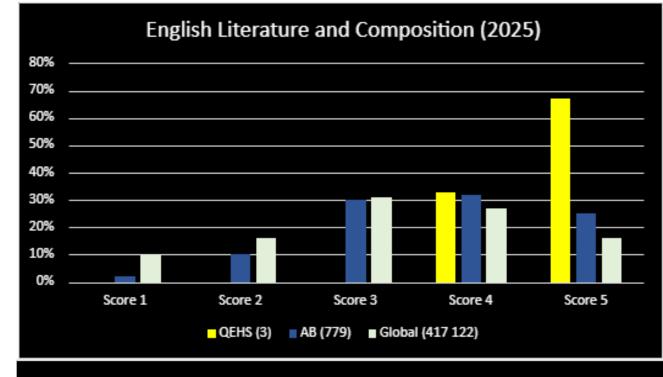
CHEMISTRY

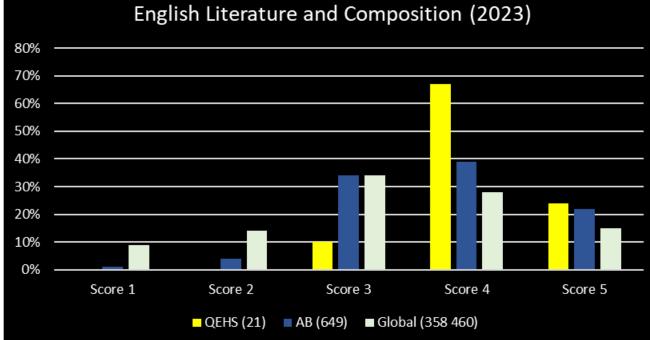
	Mean (2025)	3+ (2025)	Mean (2024)	3+ (2024)
QEHS	5.00	100.00%	4.33	83.30%
AB	3.67	91.60%	3.73	90.80%
Global	3.36	78.00%	3.31	75.70%



ENGLISH

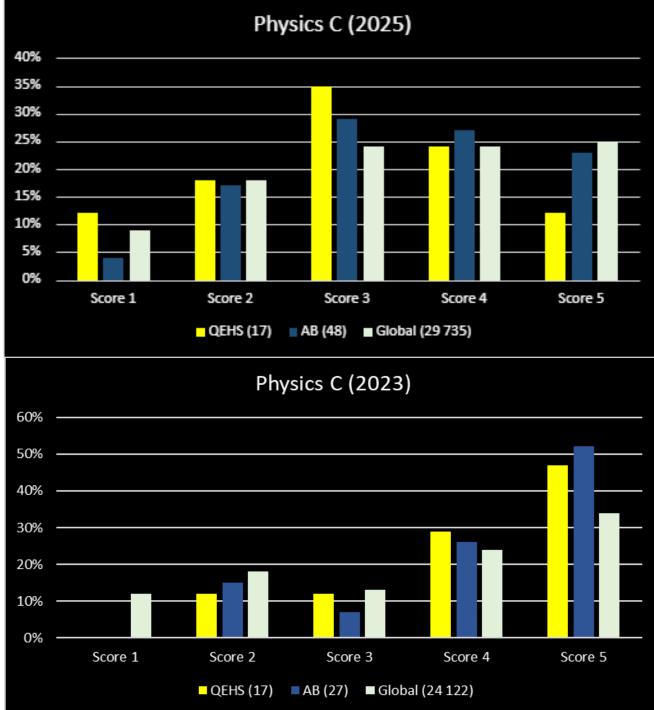
	Mean (2025)	3+ (2025)	Mean (2023)	3+ (2023)
QEHS	4.67	100.00%	4.14	100.00%
AB	3.66	87.30%	3.77	94.60%
Global	3.24	74.20%	3.26	77.10%





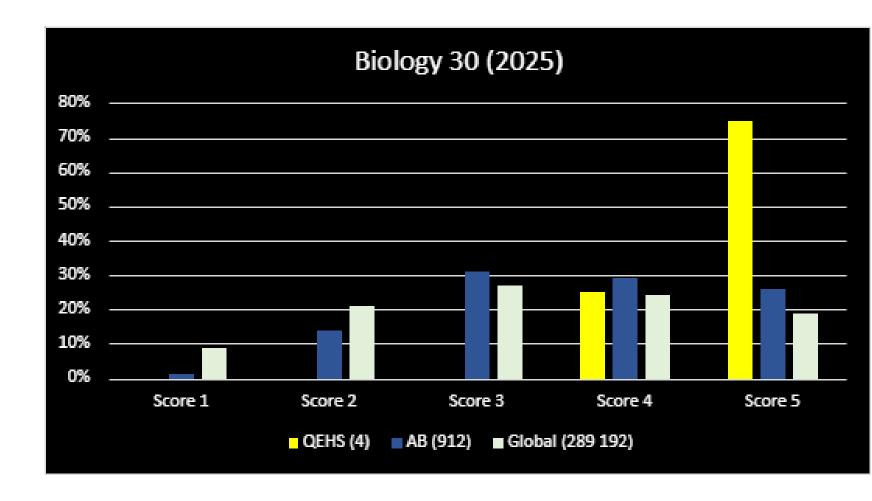
PHYSICS C

	Mean (2025)	3+ (2025)	Mean (2023)	3+ (2023)
QEHS	3.06	70.60%	4.12	88.20%
AB	3.48	79.20%	4.15	85.20%
Global	3.39	73.30%	3.50	70.50%



SEMINAR

	Mean (2025)	3+ (2025)
QEHS	3.06	94.10%
AB	3.27	89.00%
Global	3.14	81.90%



WHY TAKE AP COURSES?

National Survey of 465 2nd-year university Canadian students:

- 93% said taking at least one AP course reduced the stress of their first year of university
- 94% said that AP gave them an advantage over peers in the same class
- 98% said that they would take AP again in high school if they had the chance

AP VS IB:

University of Calgary (U of C):

Provides credit for 74% more courses than IB does

University of British Columbia (UBC):

Provides credit for 48% more course than IB does

Top* Canadian universities (*U of T, McGill, Queen's, Western Ontario, etc.)

Provides credit for 54% more AP courses

AP VS IB CONTINUED...

University of Alberta:

Credit Received	IB Course	Credit Received
Math 114 (3)	IB Math (SL)	No credit
Math 100 (3) – for	No course equivalent	No credit
engineers only	taught in most schools	
Phys 124 (3)	IB Physics (SL)	Phys 124 (3)
No credit	IB Chem (SL)	No credit
Any 100-level Biol	IB Biology (HL)	Biol 107 (3)
	Math 114 (3) Math 100 (3) – for engineers only Phys 124 (3) No credit	Math 114 (3) Math 100 (3) – for engineers only Phys 124 (3) No credit Any 100-level Biol IB Math (SL) No course equivalent taught in most schools IB Physics (SL) IB Chem (SL) IB Biology (HL)

- At Queen's University: Calculus AP receives full credit, IB SL receives zero
- At U of C: AP Physics C (only available at Queen E) receives credit in Physics 259 (for engineers only), no IB equivalent

AP AT UNIVERSITY:

- U of A, UBC, and U of C are looking at the holistic student, so a score on an AP exam will never be a disadvantage; they will consider the most advantageous score for the student's application
- The U of A's AP-exam equivalency is:

5: 96%, 4: 86%, 3: 76%, 2: 65%

 U of A, UBC, U of T, Dalhousie, and UNB are actively recruiting AP Capstone students

WHAT DO THE UNIVERSITIES THINK?

"Participation in AP courses has fostered the ability of students to succeed in college and it's an important strategy to be more competitive in the global marketplace."

> Stephen Greenfield, Emeritus Professor of Mathematics, Rutgers University

> > "I think the misconception is AP is just for acceleration and getting credits, but it's deeper than that. ... In our institution, we see students who received a 3, 4, or 5 (on AP Exams) do much better in persistence and graduation."

 Douglas Christiansen, Vice Provost for University Enrollment Affairs, Dean of Admissions & Financial Aid, Vanderbilt University

WHAT DO OUR STUDENTS THINK?

AP helps us learn to think critically; we are taught to evaluate sources and be mindful of the biases, lenses and opinions we all have.
- B.B. Grade 11

Students could be assigned both leader and follower roles in various tasks throughout the course. - R.F. Grade 10

Units relating to real world issues, such as the Anthropocene allowed students to understand current issues in society and the

contributions they can make as informed citizens. - S.M. Grade 10

The TMP project (Capstone) helped develop teamwork and speaking skills, which are very useful skills in most occupations as well as being a useful skill in general. - A.S. Grade 10 During our TMP in Capstone, when decisions needed to be made and the group had conflict, it was essential for groups to come to consensus without direct help from a teacher.

- G.A. Grade 10





