



A Partnership with Heather Ryan and David Dubé



Bishop James
Mahoney
High School

A Vision for the HSA @ BJM

Duties and Responsibilities of HSA Teachers and Students

HSA Program Options

A) Provide staff and students of the HSA with a clear mission for the purpose of the program.

The Health and Sciences Academy at Bishop James Mahoney

Why have the HSA?

- 1) Students who have consistently achieved above grade level in both mathematics and science and can illustrate a specific interest in science deserve an opportunity to further explore their passion for science in an enrichment setting.



How will the HSA accomplish this?

- 1) At the HSA, students will surround themselves with a small cohort of 60 students who have similar goals and interests. Doing so will create a positive, engaging, and fun environment that cultivates friendships with peers who are focused on expanding their knowledge of and passion for science.
- 2) At the HSA, a small group of teachers will commit to both teaching core curricular objectives and also think creatively to apply their expertise, illustrate their passion for science, and provide students with unique opportunities.
- 3) At the HSA, one teacher will be designated as Program Lead and receive 25% release time. This individual's role will be to ensure that the proper supports are in place for staff, students, and community partners to create an enriching educational environment.

What specifically will the HSA do?

- 1) Maintain a focus on the fundamental skills required for success in any STEM-related career or post-secondary endeavour by encouraging students to take all appropriate maths and sciences.
- 2) Offer classes that contain only students from the HSA cohort in each semester of high school.
- 3) Allow students to take part in supplemental hands-on learning activities in each HSA class.
- 4) Provide unique experiences to students with field trips offered through various HSA partners.
- 5) Provide students with mentorship from guest speakers from various local organizations.
- 6) Provide students with lessons on mental health, wellness, and high performance. We care that students succeed both within and beyond high school and develop skills to live a life full of positive emotions and relationships.
- 7) Offer an opportunity not found anywhere else in Canada, to earn official grades in University of Saskatchewan classes offered off-campus at BJM with approved instructors.
- 8) Offer an opportunity for students to take part in dual-credit courses. Some HSA courses are partnered with SaskPoly courses to earn both secondary (high school) and post-secondary course credits simultaneously.
- 9) Offer HSA students opportunities to explore STEM career paths and make well-informed decisions about how to direct their future.
- 10) HSA students will be given opportunities to connect with post-secondary institutions throughout Saskatchewan and Alberta (UofS, SaskPoly, UofR, NAIT, SAIT, UofA, UofC, etc.) and be aware of the different programs they provide.
- 11) Teachers will clearly communicate with students at the beginning of each term within the course syllabus what the difference between the HSA course and the mainstream course will be.

B) Outline Clearly the Duties and Expectations of HSA Students

- a) Attend class regularly and punctually.
 - i. Students with more than 5 absences or 5 lates in any class will meet with the HSA lead and/or an administrator to discuss the nature of the absences or lates and the effect it is having on the continuity of the HSA experience and/or the student's academic performance in their classes.
 - ii. A plan will be made to ensure student success moving forward, if necessary.
- b) Purchase any supplies and materials requested as necessary for any course of instruction.
 - i. Students who cannot provide themselves with the necessary materials for financial reasons will be provided necessary materials by the HSA.
- c) Observe and perform in accordance with the GSCS Learning Behaviours guidelines for students regarding engagement, respect, and responsibility.
 - i. Students unable to perform in accordance with the GSCS learning behaviours will meet with the HSA lead and/or an administrator to discuss the nature of the student's behaviour in class and the effect it is having on the continuity of the HSA experience and/or the students or other students' academic performance in their classes.
 - ii. A plan will be made to ensure student success moving forward, if necessary.
- d) Be diligent in their studies as to maintain an academic standing that is at or above grade-level in all their classes (75% or higher)
 - i. Students unable to perform in accordance with the GSCS Achievement Scale with a standing of Meeting or Exemplary in each course will meet with the HSA lead and/or an administrator to discuss the student's achievement.
 - ii. A plan will be made to ensure student success moving forward, if necessary.
- e) Conform to the rules of the school.
 - i. Students unable to follow the school rules outlined in the BJM Handbook will meet with the HSA lead and/or an administrator to discuss the nature of the student's behaviour inside and outside of the classroom.
 - ii. A plan will be made to ensure student success moving forward, if necessary.
- f) If a student is unable to uphold to these expectations, they will be asked to discontinue enrollment in the HSA.



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Student Agreement 2023/24

I understand that the Health and Sciences Academy at Bishop James Mahoney is for students who are achieving an academic standing that is at or above grade level. HSA students should be able to illustrate a specific interest in science or an intention to pursue Science, Technology, Engineering, Math, or Health Care related careers.

I understand that my enrollment in the Health and Sciences Academy is a privilege and not a right. I recognize that the timely submission of academic work is of the utmost importance within the academy. As is completing that work independently.

Regular attendance and classroom conduct that shows engagement in and respect for the learning environment is mandatory for continued enrollment. The academy uses its own microscopes and Chromebook computers. Proper care for these devices is expected.

Due to the integrated nature of the program, students must show a significant level of dependability, responsibility, and independence. Since we have regular interaction with other educational institutions, various agencies, future employers, and the public, any student who is not maintaining acceptable standards may be required to discontinue the program.

Students Name (printed): _____

Student Signature: _____

Parents Name (printed): _____

Parents Signature: _____

Date: _____

C) Outline Clearly the Duties and Expectations of HSA Teachers

- 1) Each HSA teacher will be assigned a specific H-designated class (maximum of two) within the academy that is most suited to their interests. These courses will be offered only to HSA students.
- 2) Each HSA teacher will plan their specific HSA class in a way that covers all the curriculum objectives outlined for that class by the Ministry of Education. Covering these core objectives will be the primary focus of the course.
- 3) Each HSA teacher will ensure that assessments given to students in HSA courses will cover the same content and be of the same difficulty as that offered to non-HSA students. Being in an HSA class should not make assessments more difficult or be assessed with higher expectations. An 80% in an HSA section should correspond to an 80% in a non-HSA section.
- 4) Within each HSA class, HSA teachers will plan at least one curriculum-based field trip, preferably with an HSA partner. The field trip will intend to teach or enrich a curriculum outcome through experiential learning.
- 5) Within each HSA class, HSA teachers will plan for at least one guest speaker or plan for a presentation from an HSA partner. The guest speaker will intend to provide students with information about career opportunities or to enrich a curricular outcome with mentorship from a professional in that field of study.
- 6) Within each HSA class, HSA teachers will plan for students to take part in a larger quantity of hands-on activities or laboratory exercises than the equivalent mainstream course. HSA students are expected to cover the core curriculum at a faster pace than non-HSA students, allowing for more laboratory time and engaging activities.
- 7) Clearly communicate with students at the beginning of each term within the course syllabus what the difference between the HSA course and the mainstream course will be. This will be shared with the HSA lead before the start of each term and then shared with students as part of the course outline. This could include:
 - i) What field trip(s) will be planned to enrich the class experience?
 - ii) What guest speakers will enrich the class experience?
 - iii) How the content of the course may be expanded upon to enrich the class experience.
 - iv) How the environment of the class may be different to enrich the class experience.
 - v) How the process of learning may differ from a non-HSA section.
 - vi) What projects may be completed by students to alter the products that students produce outside of formal summative assessments.
 - vii) Ensure students that the course assessments will not be more difficult and that the core curriculum will be covered.
- 8) Within each HSA class, HSA teachers are expected to share a passion for science and their story to becoming an HSA teacher with their students.
- 9) HSA teachers will encourage students (that they see fit) to take advantage of the opportunity to take University of Saskatchewan classes offered off-campus at BJM with approved instructors.
- 10) HSA teachers will encourage students (that they see fit) to participate in dual-credit course offerings. Some HSA courses are partnered with SaskPoly courses to earn both secondary (high school) and post-secondary course credits simultaneously.

D) Outline Clearly Course Selection Pathways for Students

HEALTH AND SCIENCES ACADEMY – HSA DIPLOMA PROGRAM

The HSA diploma program is for students who desire all the courses offered by the HSA and maximizes the number of post-secondary credits that students attain while in the HSA. Students who select this pathway will undergo a review each year to ensure student well-being and suitability to the program is being put first.

It is possible to complete the HSA diploma program as an AP English student. It is also possible as a band student, however, doing so will remove flexibility in course selection. It is currently not possible for French Immersion students to complete the HSA Diploma Program and receive a Bilingual Diploma.

<p><u>Grade 10 Semester 1</u></p> <p>English A/B 10 (AP stream optional) *</p> <p>Catholic Studies 10 *</p> <p>Math Foundations & Pre-Calculus 10 *</p> <p>Science 10H *</p> <p>Elective 1 (If Band – choose Band & Wellness 10. If not Band - Wellness 10 is recommended in Sem1 or Sem2)</p>	<p><u>Grade 10 Semester 2</u></p> <p>English A/B 10 * (AP stream optional)</p> <p>History 10 / Indigenous Studies 10 *</p> <p>Math Foundations 20 *</p> <p>Environmental Science 20H *</p> <p>Elective 2 (If Band – choose Band & Wellness 10. If not Band - Wellness 10 is recommended in Sem1 or Sem2)</p>
<p><u>Grade 11 Semester 1</u></p> <p>Catholic Studies 20 * (If Band – choose Catholic Studies + Band)</p> <p>Social Science 20 * (choose from registration list)</p> <p>Physical Science 20H</p> <p>Math Pre-Calculus 20</p> <p>Elective / Spare</p>	<p><u>Grade 11 Semester 2</u></p> <p>English 20A * (AP stream optional)</p> <p>Math Foundations 30</p> <p>Health Science 20H + MedTerm 180 SaskPoly</p> <p>Chemistry 30</p> <p>Elective / Spare – (If Band – choose Catholic Studies + Band)</p>
<p><u>Grade 12 Semester 1</u></p> <p>English A30 * (AP stream optional)</p> <p>Catholic Studies 30 * (If Band – choose Catholic Studies + Band)</p> <p>Physics 30</p> <p>Math Pre-Calculus 30</p> <p>Social Science 30 * (choose from registration list)</p>	<p><u>Grade 12 Semester 2</u></p> <p>English B30 * (AP stream optional)</p> <p>Calculus 30 & Math 110.3</p> <p>Biology 30H & Biology 120.3</p> <p>Biology 30H & Biology 120.3 Lab</p> <p>Elective / Spare (If Band – choose Catholic Studies + Band)</p>

*Graduation Requirement (please note, 1 elective must be Wellness 10, PhysEd 20, or PhysEd 30)

HSA Diploma Program Requirement (14 required courses/sections)

All Highlighted courses must be completed in person, not online.

If students are not in the band program, they are encouraged to take Anatomy 30H in Grade 12.

HEALTH AND SCIENCES ACADEMY – HEALTH SCIENCES CERTIFICATE

The Health Sciences Certificate Program is designed for students that intend to pursue a Health Sciences related career that does not require Physics 30. Students wishing to pursue a career that requires Physics 30 should take Physics 30 in Semester 2 of Grade 12 as one of their electives.

The Health Sciences Certificate is available to all HSA students that are not enrolled in French Immersion. The certificate program will provide more flexibility with their schedules and opportunities to take more electives in Grade 11 and 12.

<u>Grade 10 Semester 1</u> English A/B 10 (AP stream optional) * Catholic Studies 10 * Math Foundations & Pre-Calculus 10 * Science 10H * Elective 1 (If Band – choose Band/gym. If not Band - Wellness 10 is recommended in Sem1 or Sem2)	<u>Grade 10 Semester 2</u> English A/B 10 * (AP stream optional) History 10 / Indigenous Studies 10 * Math Foundations 20 * Environmental Science 20H * Elective 2 (If Band – choose Band/gym. If not Band - Wellness 10 is recommended in Sem1 or Sem2)
<u>Grade 11 Semester 1</u> Catholic Studies 20 * (If Band – choose Catholic Studies + Band) Social Science 20 * (choose from registration list) Physical Science 20H Math Foundations 30 or Math Pre-Calculus 20 / Elective / Spare Elective / Spare	<u>Grade 11 Semester 2</u> English 20A * (AP stream optional) Health Science 20H + MedTerm 180 SaskPoly Chemistry 30 Math Foundations 30 or Math Pre-Calculus 20 / Elective / Spare Elective / Spare – (If Band – choose Catholic Studies + Band)
<u>Grade 12 Semester 1</u> English A30 * (AP stream optional) Catholic Studies 30 * (If Band – choose Catholic Studies + Band) Anatomy and Well-Being 30H + Anatomy 100 SaskPoly Math Pre-Calculus 30 / Elective / Spare Elective / Spare	<u>Grade 12 Semester 2</u> English B30 * (AP stream optional) Social Science 30 * (choose from registration list) Biology 30 or Biology 30H & Biology 120.3 (recommended) Elective / Spare / Biology 30H & Biology 120.3 Lab (recommended) Elective / Spare (If Band – choose Catholic Studies + Band)

*Grad Requirement (please note, 1 elective must be Wellness 10, PhysEd 20, PhysEd 30)

HSA Health Sciences Certificate Requirement Must complete one of either Math Foundations 30 or Math Pre-Calculus 30. Students are encouraged to follow the Math Pre-Calculus pathway.

10 required courses/sections **All Highlighted courses must be completed in person, not online.**

HEALTH AND SCIENCES ACADEMY – HEALTH SCIENCES CERTIFICATE (Fre. Imm.)

The Health Science Certificate (French Immersion) is specifically designed for French immersion students that intend to pursue a Health Sciences related career that does not require Physics 30. Students wishing to pursue a career that requires Physics 30 should take Physics 30 in Semester 2 of Grade 12.

French Immersion students who choose the Health Science Certificate program will not be able to complete Band 30, AP English, Math 110.3, Biology 120.3, and complete the requirements for a Bilingual Diploma. It is however possible to do four of the five (dependent on course scheduling)

<u>Grade 10 Semester 1</u> Francais Immersion 10 * Etudes Catholiques 10 * Fondements des Mathematiques et Precalcul 10* Science 10H Elective 1 (If Band – choose Band 10 & Wellness 10. If not Band – choose Wellness 10 in Sem1 or Sem2 and select an additional elective)	<u>Grade 10 Semester 2</u> English A/B 10 * (AP stream optional) Histoire 10* Fondements des Mathematiques 20 * Environmental Science 20H Elective 2 (If Band – choose Band 10 & Wellness 10. If not Band – choose Wellness 10 in Sem1 or Sem2 and select an additional elective)
<u>Grade 11 Semester 1</u> Etudes Catholiques 20* (If Band – choose Etudes Catholiques + Band) Histoire 20* Français Immersion 20* Physical Science 20H Math Foundations 30 or Math Pre-Calculus 20	<u>Grade 11 Semester 2</u> Francais Immersion Integre 20* English 20A * (AP stream optional) Health Science 20H + MedTerm 180 SaskPoly Chemistry 30 Elective / Spare – (If Band – choose Etudes Catholiques + Band)
<u>Grade 12 Semester 1</u> Francais Immersion 30* Etudes Catholiques 30 * (If Band – choose Etudes Catholiques + Band) Anatomy and Well-Being 30H + Anatomy 100 SaskPoly Math Pre-Calculus 30 / Elective / Spare Elective / Spare	<u>Grade 12 Semester 2</u> English A30/B30 * (AP stream optional) Sciences Sociales Immersion 30 Biology 30 <u>or</u> Biology 30H & Biology 120.3 Biology 30H & Biology 120.3 Lab / Calculus 30 & Math 110.3 / Elective / Spare Elective / Spare / Calculus 30 & Math 110.3 / (If Band – choose Etudes Catholiques + Band)

*Grad Requirement (please note, 1 elective must be Wellness 10, PhysEd 20, PhysEd 30)

HSA Health Sciences Certificate (French Immersion) Requirement Must complete one of either Math Foundations 30 or Math Pre-Calculus 30. Students are encouraged to follow the Math Pre-Calculus pathway

10 required courses/sections **All Highlighted courses must be completed in person, not online.**