



## **Be Future Ready!**

### **Post-Secondary Readiness**

- Dual credit opportunities: Students will get a high school credit as well as a post-secondary credit.
  - o Health Science 20H/Medical Terminology 180 – SK Polytechnic
  - o Anatomy 30H /Anatomy 100 – SK Polytechnic
- Lab experience at post-secondary institutions
- Guest lectures and teaching from local scientists and researchers
- Hands on work with nursing students in classroom setting
- Research opportunities at Canadian Light Source

### **University of Saskatchewan First Year Credit Courses**

Biology 120.3 U of S – after completing Biology 30H, students will have the opportunity to get a first year Biology credit while at BJM for free.

Math 110.3 U of S – after completing MPC30, students will have the opportunity to get a first year U of S Math credit while at BJM for free.

### **Career Development**

- BJM is a host site for citywide career exploration events run by the Saskatoon Industry Education Council such as Health Link and the Nursing Panel
- Presentations on health care and projected future needs for jobs within the industry
- Saskatoon Health Region presentations
- Presentations from local scientists and researchers to expose students to a variety of possible career opportunities
- Mentorship opportunities with professionals working in the health and science related fields
- Grade 9 – Career Exploration Unit
- Grade 10 and 11 – Career Conferences with Student Services
- Grade 12 – Exit Meeting and Planning for future with Student Services



### **Program Costs:**

Due to the generous support of Heather Ryan and David Dubé there is no tuition for the Health & Sciences Academy. There will be a program fee of \$75 to cover the costs of field trips, unique educational experiences, and supplies. Additional costs of the program are due to the fee the post-secondary institutions charge for their classes. HSA students are able to take these classes at a significantly reduced rate. The 2021-22 costs are anticipated to be the following.

#### Cost for HSA Students

Grade 11	Medical Terminology 180 (dual credit with HSC20)	app. \$150
Grade 12	Anatomy 100 (SK Poly dual credit) (SK Poly cost \$350.00)	app. \$150
	Biology 120.3 University of Saskatchewan (\$90 U of S Registration Fee – only pay once) (U of S cost is approximately \$700 plus fees)	\$0
	Math 110.3 University of Saskatchewan (\$90 U of S Registration Fee) (U of S cost is approximately \$700 plus fees)	\$0

Note – students taking U of S classes will only pay one registration fee and will not have to pay it again if they attend the U of S in the fall.



## Course Descriptions

**Core 90H – (English Language Arts A and B, Catholic Studies 90, Social Studies 90)** – The four core subjects in grade 9 will achieve the curricular outcomes in an engaging and unique way by integrating as much health and science related content as possible.

**Science 90H** – This course serves as an introduction to all sciences through a study of human reproduction, atoms and elements, electricity and space. Through many opportunities for hands-on learning, students will develop strong lab skills and an understanding of science fundamentals needed for future courses.

**Science 10H** – Students will delve deeper into chemical reactions, investigate the dynamics of climate and ecosystems and explore forces and motion. Labs, activities, simulations & inquiry projects will help students to develop their skills so that they are best prepared for all of the 20 level sciences.

**Environmental Science and Toxicology 20H** – The role of humans in the environment will be explored in this course through the study of ecosystems, resource management and environmental testing. The impact of pollution on human health will also be investigated.

**Health Science 20H/ Medical Terminology 180\* (SK Poly dual credit)** – Human body systems, nutrition, health care ethics and philosophy, and the diagnosis and treatment of disease will all be explored in this course. Students will learn a number of new lab skills as they consider health case studies and lab results to come up with possible diagnoses for disease. As part of the course, Medical Terminology 180 will be completed through Sask Polytechnic for a dual credit.

**Mental Health & Well-Being 20H** – Throughout this course, opportunities are provided for students to attain, maintain, and promote a healthy mind, body, heart, and spirit. Young people can acquire the understandings, skills, and confidences needed, for example, to evaluate mental health policies; to negotiate and make healthy decisions about mental health supports; to question the norms and trends that influence decision making; to communicate effectively in relationships; and to take action to promote the well-being of self, family, community, and environment.

**Physical Science 20H** – This course will allow students to probe further into the foundations of chemistry through the investigation of chemical reactions. Students will also examine the physics of many types of waves. Emphasis will be placed on developing strong problem solving skills and connecting the science to the world around them.

**Anatomy 30H/Anatomy 100\* (SK Poly dual credit)** – In this dual credit course, students will explore the structure and function of major body systems and how they maintain a healthy body. Engaging lab experiences will enhance student learning.

**Biology 30H** – In this course, students will learn about the cell and its functions and genetics and biotechnology. Through a study of evolution, students will examine the relationships between kingdoms of living things.

**Biology 120.3 University of Saskatchewan (first year biology class)** - This course will provide a continued study of the underlying fundamental aspects of living things. This will include an examination of the cell, genetics and the evolutionary processes which lead to complex, multicellular life forms. Extensive lab work will be a key part of this class.  
Prerequisite: Biology 30H. Chemistry 30 is also strongly recommended as a prerequisite for this course.

\* This is not an HSA required course, students may choose to take this as an elective.

**Math 110.3 University of Saskatchewan (first year math class)**

This course is an introduction to derivatives, limits, techniques of differentiation, implicit differentiation, anti-derivatives, and application problems.

Prerequisite: Pre-Calculus 30. A strong mathematical background is strongly recommended.

\* This is not an HSA required course, students may choose to take this as an elective.



The Health & Sciences Academy at Bishop James Mahoney High School (BJM) is an exciting grade 9 - 12 program that will give students a one-of-a-kind high school experience. Students will be engaged in unique classes that emphasize hands-on learning, critical thinking, collaboration, creativity and communication. Upon completion of the program, all students will graduate high school and gain an advantage for post-secondary education in related fields. The HSA student experience will be unique both in and out of the classroom. This will include partnerships with post-secondary institutions and local organizations, industry certifications, and opportunities to gain both high school and post-secondary credits. You will also be part of our BJM family and have the opportunity to participate in all of our extra-curricular programs.

The Health & Sciences Academy is for students who:

- may be interested in a science or health-care career;
- love science and want a unique and engaging high school experience;
- will embrace a rigorous academic environment;
- want an advantage by getting the opportunity to earn dual credits and university credits;
- want to be more prepared for post-secondary education in the sciences or health-care fields.

### Application Process

- Students may apply for entry in grade 9 or 10
- Pick up a registration package at the school or download and complete the application form on our website <https://www.gscs.ca/bjm/page/3127/health-and-sciences-academy>
- Return your completed application by mail or deliver it to:  
*Health & Sciences Academy  
Bishop James Mahoney High School  
231 Primrose Drive  
Saskatoon SK S7K 6Y3*

### Application Timelines

- The deadline for the first round of applications is **March 3, 2022**.
- Applications received **after 4:00 pm March 3** will only be considered if the program is not full. If the program is at capacity, late applications will be placed on a waiting list.
- The following aspects of the application will be considered: academic achievement, attendance, and conduct.
- Students will be informed of acceptance or non-acceptance in an email by **April 29, 2022**. Acceptance is conditional until Health & Sciences Academy staff reviews the student's final report card at the end of June.



**Personal Recommendation From a Non-Family Member**

The Health & Sciences Academy has a limited number of spots available, and every effort must be made to make the selection process as fair as possible. This **confidential reference** is an attempt to verify that the student and program are a suitable match.

- A. If your reference is someone other than your Grade 8 teacher, please fill out **Form A** below.
- B. If your reference is your Grade 8 Teacher, please use **Form B** on the following page.

**FORM A - HSA Student Application – Reference from someone other than Grade 8 Teacher**

Student Name: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Email: \_\_\_\_\_

How do you know the applicant: \_\_\_\_\_

Please write a reference on why you feel the applicant is a good candidate for the Health & Sciences Academy. (Reference may be written by hand or typed– maximum 200 words)

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Signature \_\_\_\_\_ Date: \_\_\_\_\_


Please **sign** the reference and place in an envelope **signed across the seal** for submission with the rest of the application package.

**FORM B - HSA Student Application – Reference from a Grade 8 Teacher**

Student Name: \_\_\_\_\_ School: \_\_\_\_\_

Reference Name: \_\_\_\_\_ Email: \_\_\_\_\_

**Instructions:** For each statement, circle the appropriate number on the scale.

	Not very much like the student  Very much like the student				
1. The student works hard at school.	1	2	3	4	5
2. The student completes their work on time.	1	2	3	4	5
3. The student works well with their peers.	1	2	3	4	5
4. The student demonstrates perseverance in the face of difficulty.	1	2	3	4	5
5. When struggling to figure something out, the student focuses on the process instead of the final product.	1	2	3	4	5
6. The student willingly accepts the directions of teachers.	1	2	3	4	5
7. The student is able to work independently without supervision.	1	2	3	4	5
8. The student is a positive leader in the classroom.	1	2	3	4	5
9. The student is willing to accept constructive criticism and use this feedback to improve their work.	1	2	3	4	5
10. The student is organized with their time and materials.	1	2	3	4	5

Additional Comments (optional): please use the other side or attach a printed document

Signature \_\_\_\_\_ Date: \_\_\_\_\_

Please **sign** the reference and place in an envelope **signed across the seal** for submission with the rest of the application package.



## Checklist for Application Package

- \_\_\_\_ 1. Completed Health & Sciences Registration and Course Selection Card
- \_\_\_\_ 2. Signed Student and Parent Agreement
- \_\_\_\_ 3. Written essay (or typed and attached) on why the student would like to attend the Health & Sciences Academy.
- \_\_\_\_ 4. Adult reference from a teacher or non-family member; reference must be **signed**, placed in a separate envelope and **signed across the seal**.  
**Form A** - *If your reference is someone other than your Grade 8 Teacher*  
**Form B** - *If your reference is your Grade 8 Teacher*
- \_\_\_\_ 5. Copy of most recent report card.
- \_\_\_\_ 6. Attendance record for 2021-22 school year (if not on report card).

Place all contents in large envelope and mail or drop off at Bishop Mahoney High School.

### **All applications must be received by 4:00 pm March 3, 2022**

(Applications received after 4:00 pm March 3 will only be considered if the program is not full.  
If the program is at capacity, late applications will be placed on a waiting list.)

## Student and Parent Agreement

We understand that the Health & Sciences Academy at BJM is designed for students who are pursuing a science or health-care career. We recognize that attendance and academics are of utmost importance. We understand that enrolment in the Health & Sciences Academy is a privilege and not a right. In addition to grades, attendance and appropriate conduct are mandatory for continued enrolment. Due to the integrated nature of the program, students must demonstrate a significant level of dependability, responsibility and independence. Because of regular interaction with educational institutions, various agencies, future employers, and the general public, any student who is not maintaining acceptable standards may be required to discontinue the program.

\_\_\_\_\_  
Applicant Name

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Name

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date

**STUDENT** (Enter your name exactly as it appears on your Birth Certificate)

\_\_\_\_\_ Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Second Name \_\_\_\_\_

\_\_\_\_\_  Male  Female  Unspecified \_\_\_\_\_  
Name by which you are called \_\_\_\_\_ Student Cell No. \_\_\_\_\_

\_\_\_\_\_ Address \_\_\_\_\_ Postal Code \_\_\_\_\_ Student's Home Number \_\_\_\_\_

Student lives with  Both Parents (same residence)  Both Parents (separate residences)  Mother Only  Father Only  Other \_\_\_\_\_

Birth: \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_ Religion: \_\_\_\_\_

\_\_\_\_\_ Last School Attended \_\_\_\_\_ City \_\_\_\_\_ Grade \_\_\_\_\_ Year \_\_\_\_\_

**Bishop James Mahoney uses email and phone to communicate with our families. Please provide your:**

\_\_\_\_\_ Preferred Phone Number \_\_\_\_\_ Preferred Email Address \_\_\_\_\_

**Bishop James Mahoney has committed to increase First Nation and Metis graduation rates. Your self-declaration will help to achieve this goal by ensuring access to resources for our FNM students to experience greater academic success.**

**Voluntary Declaration of Aboriginal Status:**  Does not Apply  First Nation  Métis  Inuit

**MOTHER/GUARDIAN INFORMATION: \*Please include e-mail address**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Home Address:  same as student's **OR** \_\_\_\_\_ Postal Code \_\_\_\_\_

Primary phone: \_\_\_\_\_ Other: \_\_\_\_\_ **E-mail** \_\_\_\_\_

Work Place \_\_\_\_\_ Telephone: \_\_\_\_\_

**FATHER/GUARDIAN INFORMATION: \*Please include e-mail address**

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Home Address:  same as student's **OR** \_\_\_\_\_ Postal Code \_\_\_\_\_

Primary phone: \_\_\_\_\_ Other: \_\_\_\_\_ **E-mail** \_\_\_\_\_

Work Place \_\_\_\_\_ Telephone: \_\_\_\_\_

**EMERGENCY CONTACT INFORMATION (other than Parent or Guardian):**

First Emergency Contact Name: \_\_\_\_\_ Home # \_\_\_\_\_ Work/Cell # \_\_\_\_\_

Second Emergency Contact Name: \_\_\_\_\_ Home # \_\_\_\_\_ Work/Cell # \_\_\_\_\_

**Medical Information (e.g. allergies, medications, conditions)** \_\_\_\_\_

Date of Registration: \_\_\_\_\_ Parent/Guardian Signature \_\_\_\_\_

**OFFICE USE:**  Entered in My School Sask  Schedule Entered



BISHOP JAMES MAHONEY HIGH SCHOOL  
GRADE 9 COURSE SELECTION  
2022 – 2023



STUDENT \_\_\_\_\_  
Family Name First Name

**Health & Sciences Academy English Program**

Grade 9 students at Bishop James Mahoney High School are scheduled into **10 classes in total during a complete school year**. As a result, students in Grade 9 do not have unassigned time. To achieve Grade 9 standing, students must successfully complete **ten Level 90 courses**.

All program & course descriptions are available at [www.gscs.ca/bjm](http://www.gscs.ca/bjm).

**Required Courses (9)**

English Language Arts A90H	Catholic Studies 90H	Mathematics A90
English Language Arts B90H	Social Studies 90H	Mathematics B90
Physical Education 90	Science 90H	General Practical Arts 90 (Construction & Carpentry, Food & Clothing, Health)

\_\_\_ I am currently taking Math 90 and Career Ed 90 through Cyber School

(Please contact Ms. Hanlan Stroh at 659-7502 prior to the end of the school year and once you have completed the courses)

**Elective Courses (1)**

All students must select **one** course from below:

___ Band with Arts Education 90 <b>Instrument:</b> _____ ___ Arts Education 90 (Visual Arts, Drama, Graphic Arts, Music)
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___ Choral 90 - 11 <sup>th</sup> class offered during the noon hour every second day
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<p><b>What additional support are you currently receiving or have received in the past?</b></p> ___ E.A.L. (English as an Additional Language)      ___ Learning Assistance or Resource
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