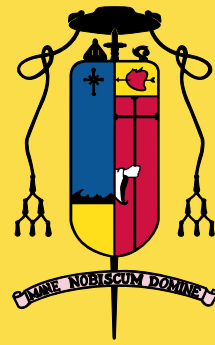


Bishop Carroll High School



Discover Personalized Self-Directed Learning!



2020 - 2021 *Course Catalogue*



CALGARY CATHOLIC SCHOOL DISTRICT

BCHS Course Catalog

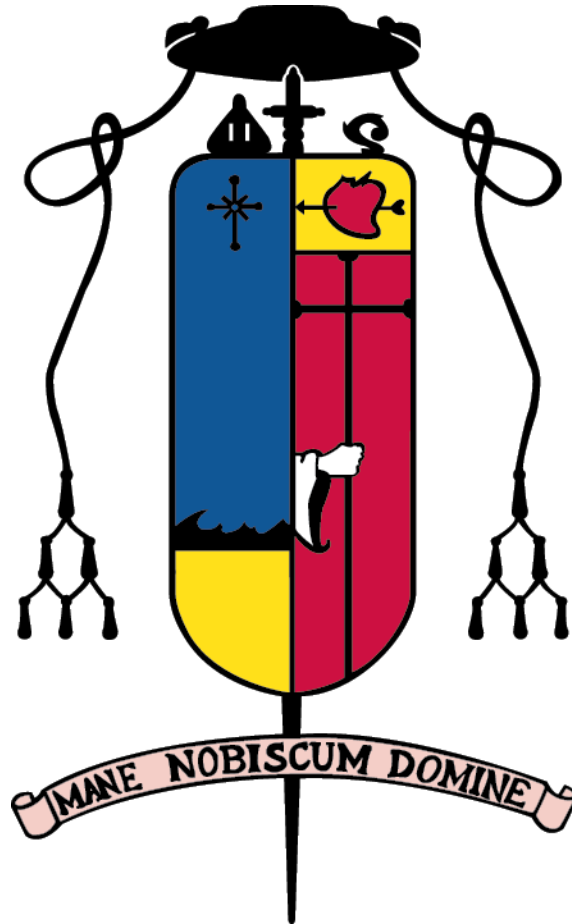
This course catalog is designed to provide all the information you will need to select your high school courses and make a plan for the next 3 academic years.

Daily Schedule

Students are required to be in attendance at school every day from 9:00 a.m. until 3:15 p.m. Monday-Thursday, 9:00 a.m. until 2:15 on Fridays. Students must check in and out with their Teacher Advisors. When not in seminars or TA sessions, students are to be in school working on course material in Resource Areas. The Bishop Carroll approach to self-directed learning is not a correspondence or home-schooling program. Students must attend school and be accountable for their time in the building. Note: All students are required to attend weekly individual TA meetings.

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Welcome Bishop Carroll High School
Class of 2023

Course Selection Guidelines

The following is a general guideline indicating the minimum mandatory high school courses for each grade level at Bishop Carroll High School.

Grade 10 students are expected to choose a full course load which consists of a minimum of 40 credits to a maximum of 52 credits. Be sure to include all mandatory and core courses, as well as a number of optional courses to comprise this total credit count.

These course selections are a **guide** for what is offered at Bishop Carroll, and you can make changes with your TA at any time.

- See the Student Handbook, or the Alberta Education website for detailed graduation requirements.
- Students require 3 credits of Religious Education per year in Calgary Catholic High Schools to participate in the Graduation Ceremony.
- Please keep this page for your own records.

<input checked="" type="checkbox"/> Grade 10	Credits	<input checked="" type="checkbox"/> Grade 11	Credits	<input checked="" type="checkbox"/> Grade 12	Credits
Religious Education 15	3	Religious Education 25 or Religions of the World 35	3	Religious Education 35	3 or 5
Self Directed Learning	3				
English 10-1 or English 10-2	5	English 20-1 or English 20-2	5	English 30-1 or English 30-2	5
Social Studies 10-1 or Social Studies 10-2	5	Social Studies 20-1 or Social Studies 20-2	5	Social Studies 30-1 or Social Studies 30-2	5
Mathematics 10 C or Mathematics 10-3 or Mathematics 10C/15	5 5 10	Mathematics 20-1 or Mathematics 20-2 or Mathematics 20-3	5	Two other 30 Level Courses	
Science 10 or Science 14	5	Biology 20 Chemistry 20 Physics 20		10 credits in CTS, Fine Arts, Languages and or PE 20/30	
Phys Ed 10 (HFR 10)	3, 4 or 5	Science 20 Science 24		Other	
Other		CALM	3		
		Other			
Total Credits for Gr. 10		Total Credits for Gr. 11		Total Credits for Gr. 12	
				Overall Total	

Alberta High School Diploma Graduation Requirements

At least 100 Credits Required, including the following:

- English Language Arts – 30 Level: 10/20/30 = 15 Credits
- Social Studies – 30 Level: 10/20/30 = 15 Credits
- Mathematics – 20 Level 10/20 = 10 Credits
- Science – 20 Level 10/20 = 10 Credits
- Physical Education (HFR) 10 = 3 Credits
- Career and Life Management = 3 Credits
- 10 credits in any combination from:
 - Career and Technology Studies
 - Fine Arts
 - Second Languages
 - Physical Education 20 and/or 30
 - Knowledge & Employability Courses
 - Registered Apprenticeship Courses
- 10 credits in any 30 level courses in addition to the 30 level English Language Arts and 30 level Social Studies course as specified above. These courses may include:
 - 30 level Math or Science courses
 - Aboriginal Studies 30
 - 30 level option courses
 - 30 level locally developed courses
 - 30 level Work Experience course
 - Advanced level CTS courses
- Religious Education—3 credits per year or partial year attended CCSD schools. (Required in order to participate in the Graduation Ceremony at any Calgary Catholic High School.)

myPass

Every high school student in the province should create an account on myPass, the Alberta Education website for maintaining student records. These accounts can be created at <https://www.alberta.ca/student-information-high-school-transcripts.aspx> using the directions for a sign-up letter. Students must first create an account, then parents will be able to create a linked account to access student information.

Students will use myPass to access their Diploma Exam results, register for Diploma Exam Rewrites, view their progress towards their High School Diplomas, and order official transcripts for post-secondary and job applications.

It is important that students do not use their @learn.cssd.ab.ca email addresses to create their myPass accounts, as those email addresses will not be available to students after graduation.

Art

Art 10

3 or 5 credits
(No pre-requisite required)

Art 10 is a foundational course that requires no previous art experience with an introduction to the basic principles of art and art appreciation. It concentrates on design, drawing, painting, sculpture, developing an art vocabulary, and appreciating all art forms.

Art 20

3 or 5 credits
(Pre-requisite: 50% or higher in
Art 10)

Art 20 is an intermediate study of the principles of art and art appreciation. It builds on sequential development of skills in 2D and 3D media. Specific reference to Art History is made and there is further application of formal, technical, and conceptual concerns to student art work.

Art 30

5 credits only
(Pre-requisite: 50% or higher in
Art 20)

Art 30 students will engage in the refinement of their art skills in 2D and 3D media along with individualized selections of course activities. Students will develop their own personal style of work suitable for inclusion in a portfolio for post-secondary education.

Art 35 AP

3 credits
(Coincides with Art 30 and must
have the approval of the art
teacher)

AP Studio Art 35 is for highly motivated students who are seriously interested in the study of art. AP Studio Art students focus on in-depth, inquiry-based art and design making; on skillful synthesis of materials, processes, and ideas; and on articulating information about their work. The program requires significant commitment for portfolio development that will be submitted in May to the AP College Board. Students achieving a favourable grade may be eligible to earn university credit.

All Art students have the opportunity to experience exhibitions, gallery tours and artistic encounters beyond classroom walls throughout the year.

10 credits in Art serve to meet the required number of credits in CTS/Fine Arts/Languages/PE 20 or 30 for an Alberta High School Diploma.

Art 30 course mark may be used for both scholarship purposes and entrance into post-secondary institutions.

Career and Life Management, Self-Directed Learning 15, & Learning Strategies

Self-Directed Learning 15 (SDL 15)

3 Credits

No pre-requisite
& 1 additional credit in
E-Learning (COM1255)

Self-Directed learning 15 is designed to facilitate the transition from a traditional teacher-directed learning model to a self-directed learning model, by building skills necessary to be successful as a self-directed learner, while developing competencies to ease this transition. Furthermore, Self-Directed Learning 15 is designed to focus on the individual learning needs of the students, meeting the learner where he/she is presently. This course is mandatory for all students entering Bishop Carroll High School. By enrolling at Bishop Carroll, students entering the course will have demonstrated and communicated a genuine desire to attend to their learning in a self-directed environment. This course facilitates the essential relationship between teacher advisor and student advisee.

Career and Life Management (CALM)

5 Credits

No pre-requisite

Students completing CALM through Bishop Carroll also receive 1 additional credit in Job Preparation (CTR1010)

Career and Life Management (CALM) is a high school course required for graduation with an Alberta High School Diploma. The aim of CALM is to enable students to make well-informed, considered decisions and choices in all aspects of their lives and to develop behaviours and attitudes that contribute to the well-being and respect of self and others, now and in the future. CALM is the core option for health literacy at the senior high-school level in Alberta, articulated through three general outcomes:

- Personal choices—Students apply an understanding of the emotional/psychological, intellectual, social, spiritual and physical dimensions of health, and the dynamic interplay of these factors, in managing personal well-being.
- Resource Choices—Students make responsible decisions in the use of finances and other resources that reflect personal values and goals and demonstrate commitment to self and others.
- Career and Life Choices—Students develop and apply processes for managing personal, lifelong career development.

The three general outcomes serve as the foundation of the 3 credit Career and Life Management course. Every student at Bishop Carroll is expected to complete CALM by the end of Grade 11.

Learning Strategies 15/25/35

5 Credits per level

No pre-requisite for L.S. 15

In collaboration with teachers and peers, students will explore, and eventually apply a range of strategies for academic success. This program integrates many of the students' activities and assignments for their other classes in developing learning strategies. Development of work ethic and learning skills/attitudes is an integral part of this course. There is a weekly mandatory seminar for this course. This course is designed to help students understand how they learn and how to structure learning opportunities for improved academic success.

CTS—Career and Technology Studies

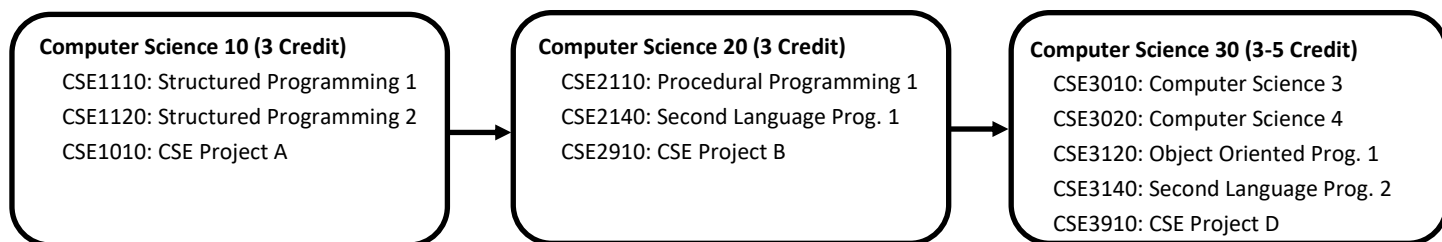
Career and technology studies (CTS) is a provincially authorized curriculum for Alberta secondary schools designed on a pathways model to offer flexible programming using 1-credit courses. The course structure of CTS enables schools to design unique programs that meet the needs of students and draw on community resources.

Please find detailed information below on the CTS pathways offered at Bishop Carroll High School. Please note the individual course offerings within these pathways may change based upon student interest and school resources.

Unique to Bishop Carroll, 1 credit CTS courses are embedded into student core courses. For example, a student who completes English 10 is given the opportunity to complete Visual Composition (COM1005) at the same time.

CTS: Business, Administration, Finance & Information Tech. (BIT)

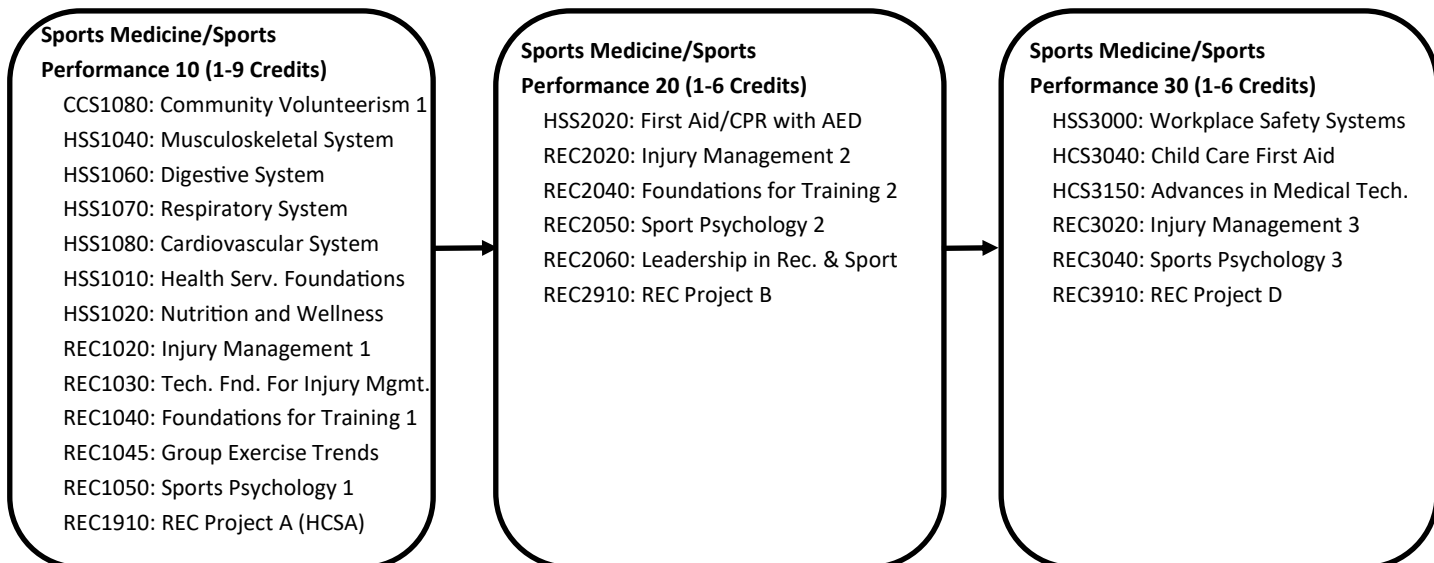
Business, Administration, Finance & Information Tech. (BIT): Our BIT courses focus on the management, and use of electronic technologies to access, use and manipulate information within personal, family, workplace, community and global contexts. These courses challenge students to expand their confidence, experience and skills as innovators and leaders using current technology.



CTS - Recreation Leadership— Health, Recreation and Human Services (HRH)

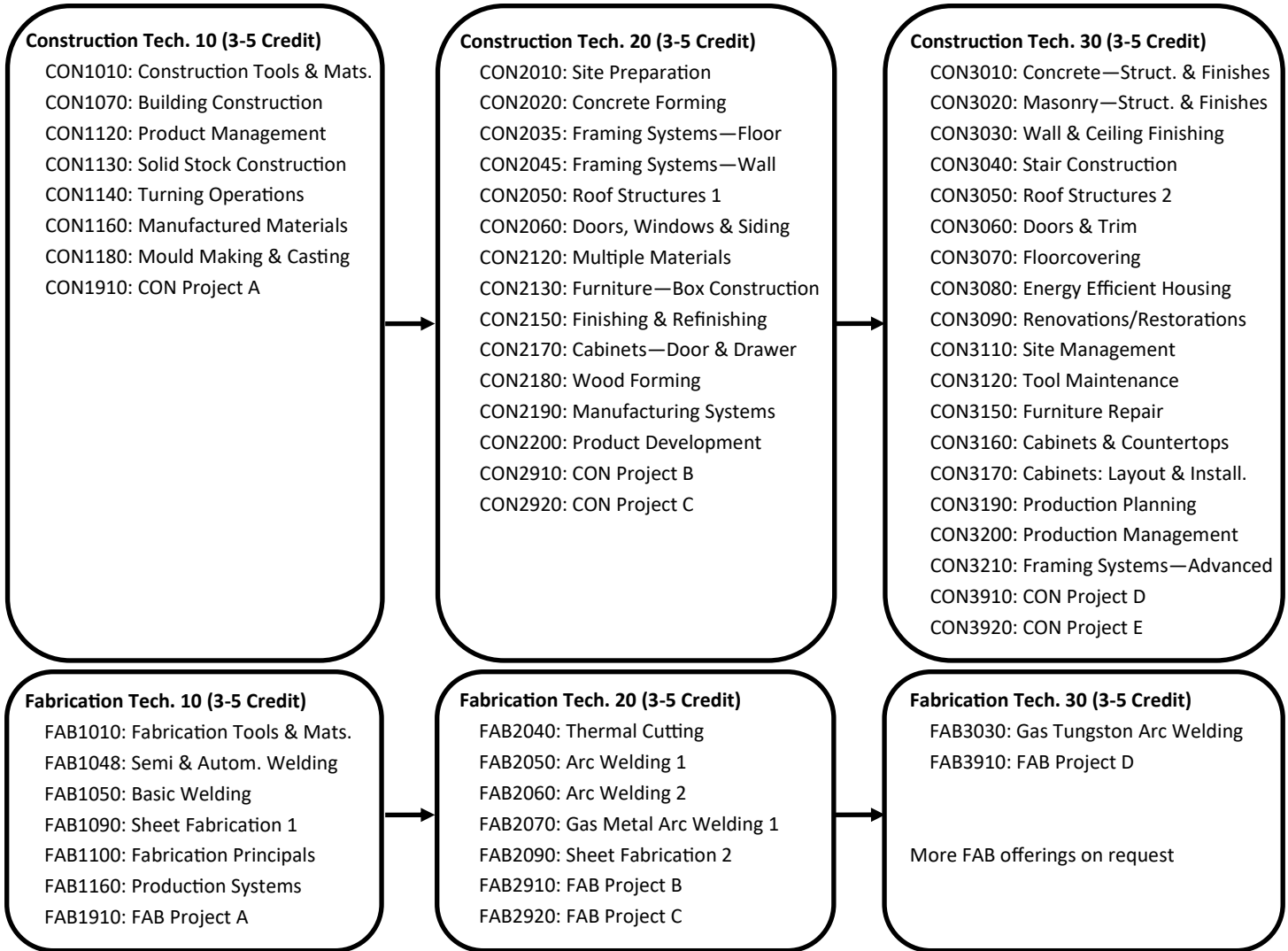
Health, Recreation and Human Services Cluster: CCS, HSS and REC: Our HRH courses focus on providing students with an exceptional opportunity to explore rewarding careers in healthcare, fitness, nutrition and recreation in addition to community volunteerism. These courses include, Sports Psychology, Nutrition and Wellness, Sports Performance as well as Community and Volunteerism.

Students can register in Sports Medicine and/or Sports Performance through the portal, and then will select which modules they are interested in in the fall, with the support of the HFR department.



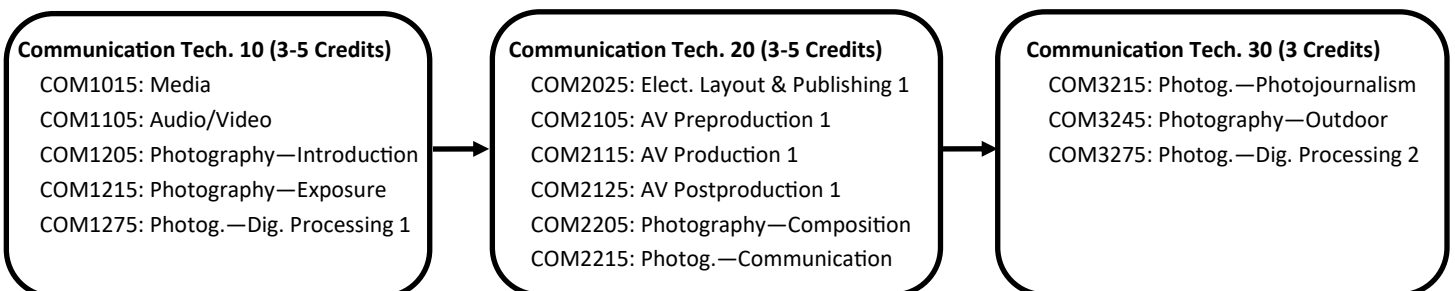
CTS - Trades, Manufacturing & Transportation (TMT)

Trades, Manufacturing & Transportation (TMT): Our TMT courses focus on skills and knowledge related to: design, construction, fabrication and maintenance of products. Courses relating to construction, fabrication, entrepreneurship and contracting offer students a wide variety of experiences in hands on training gear towards careers in the trades and business ownership.



CTS - Media, Design and Communication Arts (MDC)

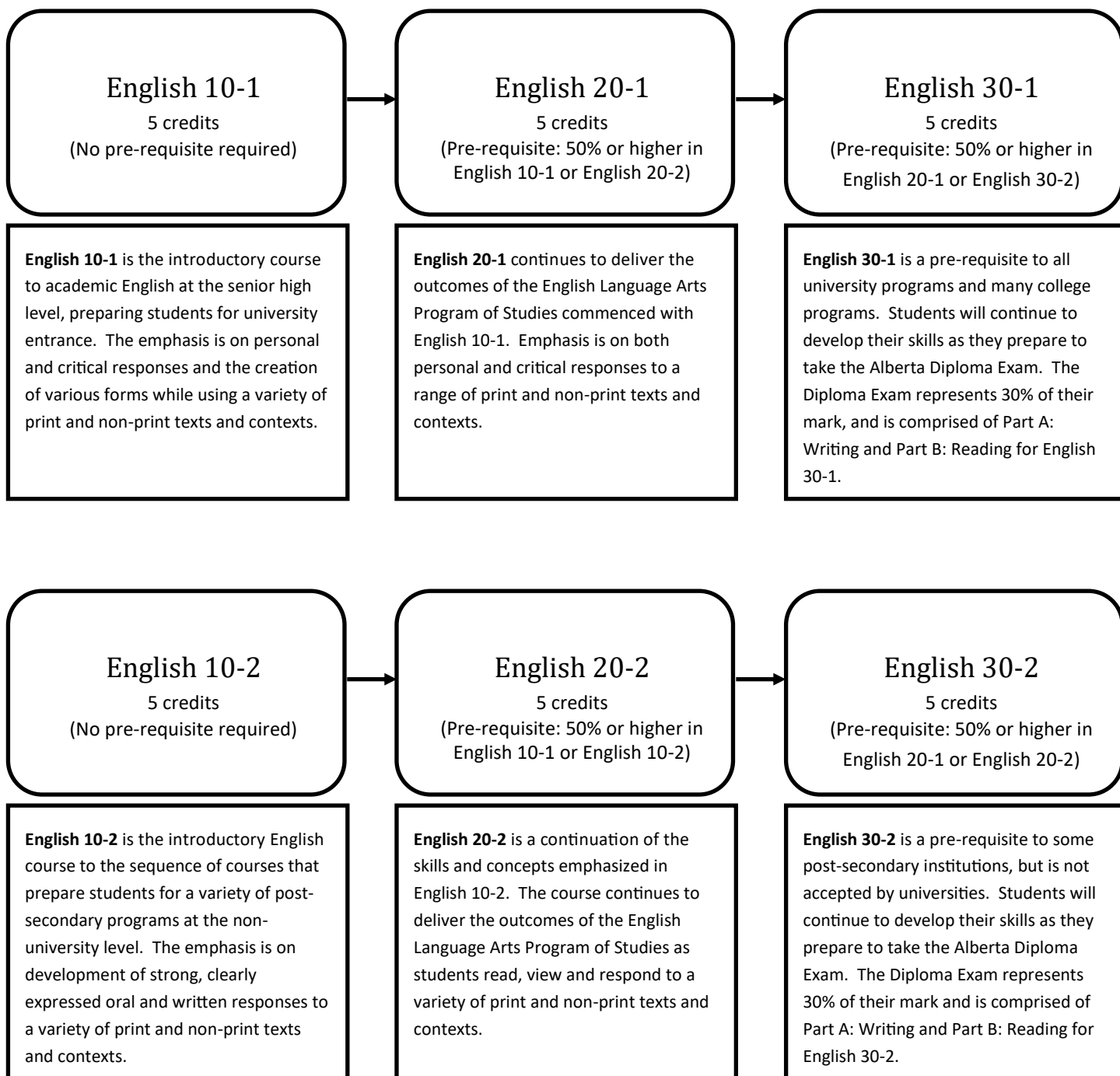
Media, Design and Communication Arts (MDC): Our MDC courses are designed to have students explore design, communication and esthetics in various forms of media. Courses are relating to art and culture, such as the performing arts, film and video, broadcasting, journalism, writing, creative design and advertising.



Drama



English



Alberta Education requires the successful completion of English 30-1 or 30-2 to fulfill the requirements of a High School Diploma.

All English courses serve to encourage an understanding and appreciation of the significance and artistry of literature and to enable all students to understand, appreciate and use language in a variety of ways and for a variety of purposes.

Hockey Canada Skills Academy (HCSA)

Hockey Canada has teamed up with the Calgary Catholic School District to offer an exciting optional program for our students. The Hockey Canada Skills Academy program offered at Bishop Carroll High School allows students to pursue their passion in sports with the opportunity to learn hockey skills, leadership, teamwork and fitness during the school day. As a part of this exciting partnership with Hockey Canada, this optional program gives student-athletes, male or female, a structured learning environment that focuses on developing a player's technical and tactical skill set.

Programs are run by certified teachers with extensive hockey backgrounds. Hockey Canada supplies resources and training to our teachers, which gives students an amazing advantage as they develop their hockey skills. Students have on-ice training up to twice a week.

Over the course of the school year, the program covers a wide variety of hockey components from the Hockey Canada Skills Academy Manual that focuses on all aspects of hockey including individual skill development, general team skills / tactic, and situational game simulations. Our program is designed to ensure training matches the needs of the students and takes advantage of the most up-to-date knowledge, technology and teaching methodologies.

Through this program, students gain confidence along with a competitive edge by enhancing and developing their personal skills. Whether a beginner athlete or an elite athlete, students will grow within their sport and achieve success.

Some highlights of our Hockey Program include:

- Enhancement of individual technical and tactical skill development
- Enhancement of academic achievement through the motivation of establishing a balance between academics and athletics
- Hockey curriculum developed by experts in the area of skill acquisition
- Goaltender specific skill development
- Players are taught to strategize or "Think the Game"
- Increase in training time by maximizing arena availability during school hours

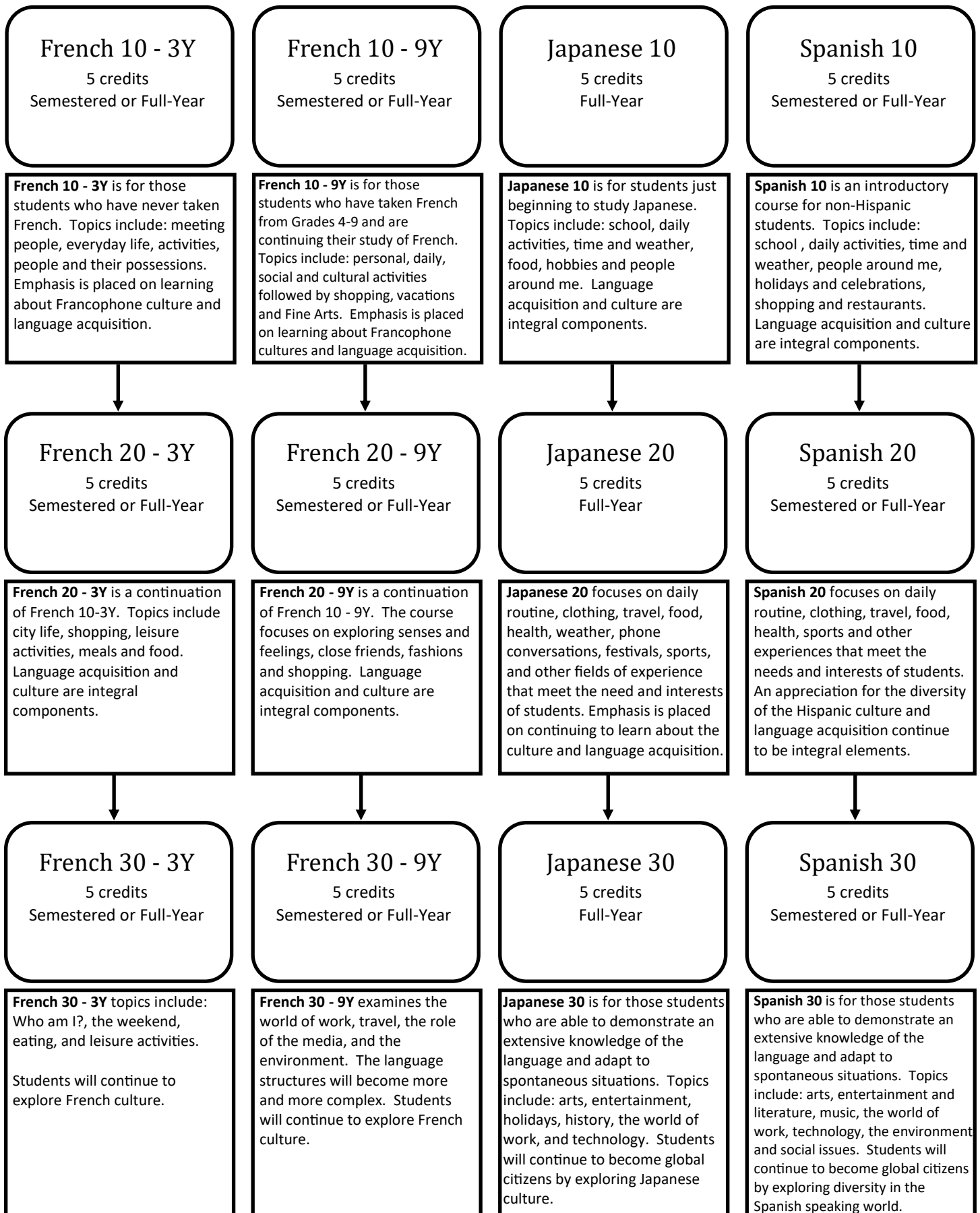
The program is funded entirely by parents and cost depends on enrollment and ice time fees. This will be communicated to those who register. Costs have historically ranged between \$500 and \$600 per year.

- Guest instructors
- Ice times
- Transportation
- Instructional Supplies
- Hockey Jersey and socks

Students participating in the Hockey Canada Skill Academy will obtain five credits by completing the following Sports Performance 10 CTS Modules:

- REC1040 Foundations for Training 1
- REC1050 Sport Psychology 1
- REC1910 Project A – On Ice Development
- HSS1020 Nutrition & Wellness
- HSS1910 Project A – On Ice Development

International Languages



International Language Opportunities

Bilingual Certificate

The CSSD French Immersion Bilingual Certificate is a culmination of a student's studies in French Immersion. Earning a Bilingual Certificate offers a wealth of opportunities for students.

The following criteria must be met:

- 15 credits in FLA 10, 20 and 30 (mandatory) taught in French through Alberta Distance Learning (ADLC).
- 15 other credits in subjects taught in French through Alberta Distance Learning .
- Support is provided through Alberta Distance Learning (ADLC).
- ADLC Registration support will occur in September for these courses.

International Certificate

Recognizes students who demonstrate a commitment to integrating an international perspective into their studies and their community through language learning, coursework and an international experience.

Accelerated French/Spanish

- For students who have a strong French/Spanish background, usually former French Immersion students or native French/Spanish Bilingual speakers who do not want to challenge the language exam.
- While still meeting all curricular outcomes students can complete an accelerated course.

International Language Challenge Exams

- Qualified students may write the final exam in a French, Spanish, Tagalog or Japanese as a Second Language Course and receive credit for the entire course.
- If students challenge a 30 level course they receive a mark and credit for the 30 level course, as well as credit only for the 10 and 20 levels .

DELF Exams and DELE Exams

- For French Immersion/Spanish Bilingual students or native French/Spanish speaking students.
- For students wanting an accepted international recognition of their language skills.
- Offered twice per year.
- Students must pay a fee.

Exchange Opportunities

Various programs exist. Their frequency and occurrence varies pending student interest.

Advanced Placement

Bishop Carroll will offer Advanced Placement opportunities in both French and Spanish.

Any student coming from an immersion or bilingual program would be eligible to complete the Advanced Placement exam.

Health, Fitness & Recreation (HFR)

Physical Education 10

5 credits = 30 units

4 credits = 24 units

3 credits = 15 units

HFR 10 = Physical Education 10

Students participate in several Physical Education activities of their choice. Please see the activity options below.

Activity updates are available on Brightspace.

Physical Education 20

5 credits = 30 units

4 credits = 24 units

3 credits = 15 units

HFR 20 = Physical Education 20

Students participate in several Physical Education activities of their choice. Please see the activity options below.

Activity updates are available on Brightspace.

Physical Education 30

5 credits = 30 units

4 credits = 24 units

3 credits = 15 units

HFR 30 = Physical Education 30

Students participate in several Physical Education activities of their choice. Please see the activity options below.

Activity updates are available on Brightspace.

A sampling of some of our HFR off-campus activities:

Aquatics, Archery, Arena Football, Bala Ball, Billiards, Bowling, Canoe/Kayak, Capture the Flag, CPR, CPR/First Aid Certification, Combatives, Cricket, Curling, Downhill Skiing, Fencing, Field Hockey, Golf, Hiking, Ice Hockey, Martial Arts, Power Skating, Racquetball, Ringette, Roller-In-Line-Skating, Sailing, Snowboarding, Snowshoeing, Speed Skating, Squash, Street Dance, Swimming, Tennis, Track & Field, Ultimate Frisbee & Wall Climbing.

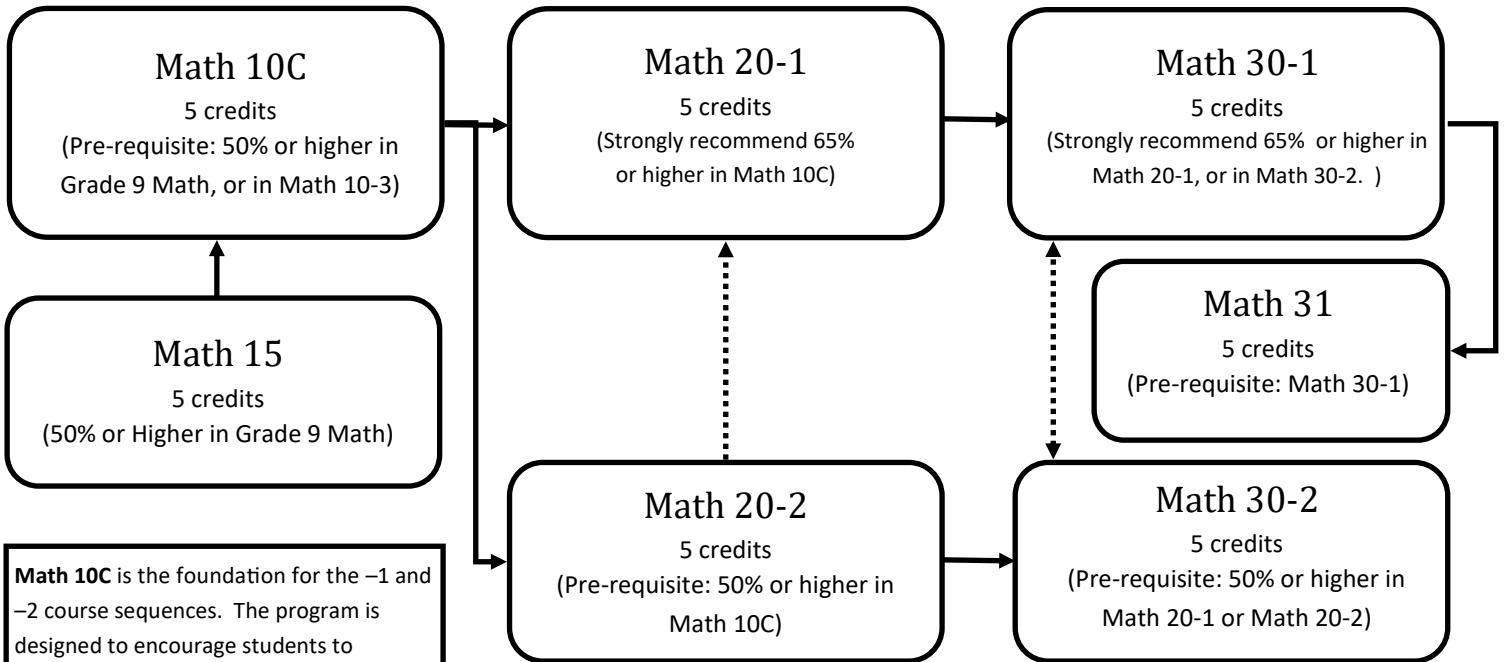
Alberta Education requires the successful completion of Physical Education 10 to fulfill Diploma requirements. (3 credits)

Physical Education 20 and 30 Courses can be used in the category *CTS/Fine Arts/Languages/PE 20 or 30* towards attaining Alberta Education Diploma Requirements.

Sports Medicine & Sports Performance

Our Sports Medicine and Sports Performance courses are listed on Page 9 under **Health, Recreation and Human Services Cluster: CCS, HSS and REC**. Please refer to this section of the Course Catalogue for more detailed information on these courses.

Mathematics



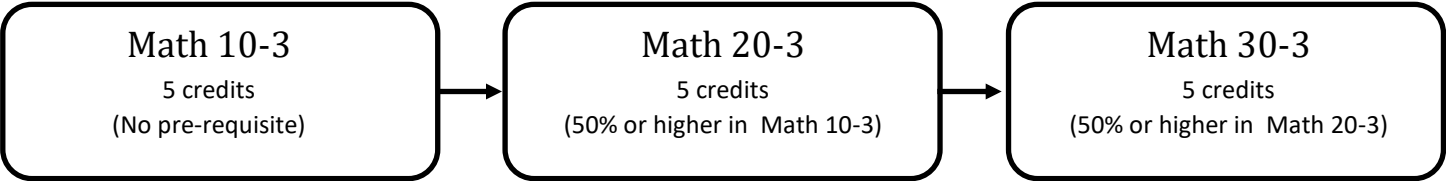
Math 10C is the foundation for the –1 and –2 course sequences. The program is designed to encourage students to become creative problem solvers, develop special sense and proportional reasoning, develop algebraic reasoning and number sense, gain confidence in mathematical skills and make connections between mathematical concepts and life.

Math 15 is a course designed for students who have passed Grade 9 math but would need a review of Grade 9 concepts to be successful and confident in Math 10C. Math 15 is a year-long structured seminar series offered 4 days a week and is combined with Math 10C. Students participating in this course will earn 5 credits for Math 15, and 5 credits for Math 10C.

The “-1” Course Sequence is designed to provide students with the mathematical understandings and critical thinking skills required for entry into post-secondary programs that require the study of calculus. Topics include algebra and number; measurement; relations and functions; trigonometry; and permutations, combinations and binomial theorem.

The “-2” Course Sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary studies in programs that do not require the study of calculus. Topics include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics and probability.

Math 31 is designed to bridge the gap between the Mathematics 10-20-30 course sequence and the calculus courses offered by post-secondary institutions. Mathematics 31 emphasizes the theoretical and practical development of topics in the algebra of functions, trigonometry, differential calculus and integral calculus up to an acceptable standard for entry into all first-year programs in mathematics, science, engineering and business.



The “-3” Course Sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include algebra, measurement, numbers, statistics and probability.

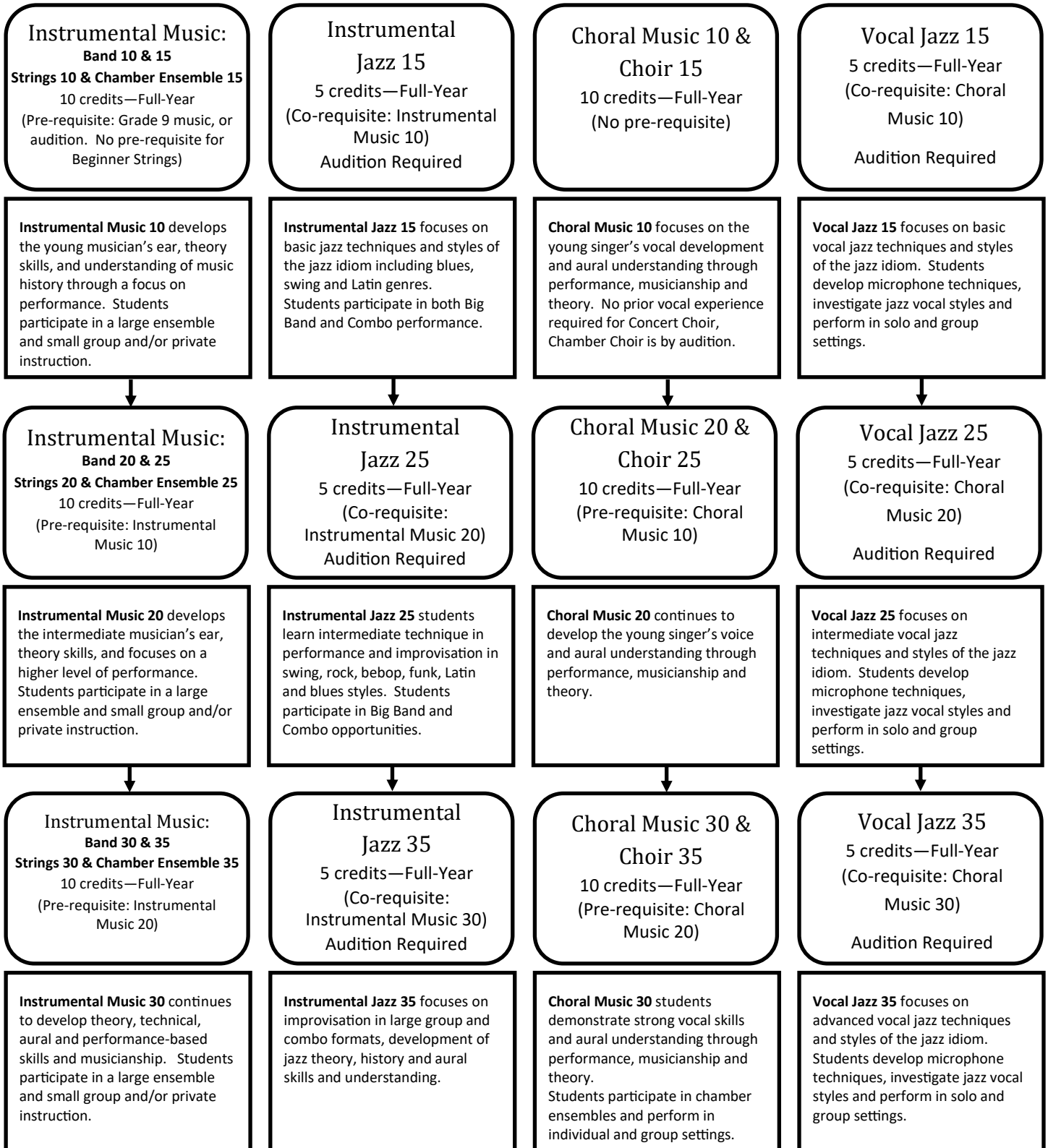
AP (Advanced Placement) Math and Honours Math are available for study. The AP program culminates with the Math 31 AP exam in May of the students Grade 12 year. This exam gives students an opportunity to earn university credits in high school.

Music

Bishop Carroll offers a wide array of music programming. Students entering Bishop Carroll can choose any combination of Band, Strings and/or Choral.

Performing Ensembles at Bishop Carroll:

Concert Band * Symphonic Band * Wind Ensemble * Concert Choir * Chamber Choir * Jazz Band * Vocal Jazz * Ensemble Eruditio (Beginner Strings) * Ensemble Intermezzo/Cantabile Strings (Intermediate Strings) * Virtuosi Strings (Advanced Strings) * Percussion * Jazz Combo * Sassy Jazz * Guitar Ensemble



Psychology

General Psychology 20

3 credits

(Pre-requisite: 50% or higher in
Social Studies 10)

General Psychology 20 teaches students the historical origins of Psychology; psychology methodologies and approaches; career opportunities in Psychology; psychological principals of learning; learning efficiency and learning strategies; human thinking, reasoning and problem solving; frustration and conflict; emotional problems of adolescents; and behavior disorders and their treatment.

Personal Psychology 20

3 credits

(Pre-requisite: 50% or higher in
Social Studies 10)

Personal Psychology 20 teaches students the methods by which human behavior can be studied scientifically. Students will investigate the origins, methods, and schools of psychology; the study of personality; human development; intelligence; heredity and environment; and the brain, body and sense organs and their relationship to sensation, perception, and behavior and the value and limitations of psychological theory and practice.

Experimental Psychology 30

3 credits

(Pre-requisite: 50% or higher in
Social Studies 10)

Experimental Psychology 30 teaches students how human behavior can be studied and measured scientifically using various experimental techniques and research strategies. Students will learn about the collection and quantification of data, the use of statistics in Psychology, and the interpretation of research results. Students will also learn to critically assess the various strengths and weaknesses of various research methodologies.

Advanced Placement Psychology (College Board Curriculum)

In order to prepare for the AP Psychology examination held in May of each school year, students will be required to have completed all the tests and assignments for General Psychology 20, Personal Psychology 20, and Experimental Psychology 30. (Alberta Learning Curriculum)

AP Psychology students will also complete the Advanced Placement Psychology learning guides and the assigned AP group projects as well as attend the Advanced Placement Psychology seminars.

Religion

Students in a Calgary Catholic High School are required to complete 3 religion credits for each year of attendance in order to participate in order to participate in Bishop Carroll Graduation Ceremonies.

Bishop Carroll offers a differentiated approach to completing the program by offering field trips, alternative seminars, and cross-curricular demonstrations of learning!

Religious Education 15

3 credits
(No pre-requisite required)

Religious Education (Roman Catholic) 15—Christ and Culture: The principal aim of *Christ and Culture* is to assist students, with the help of the Gospel, to participate as Christians in the shaping of our culture. The program explores major cultural issues from a Christological perspective. Beginning with their own life experiences, students acquire a deeper and more systematic knowledge of themselves, Christ's message, and the Church. Connections between the Church and contemporary culture are explored in terms of what it means to be a responsible adolescent developing as a member of a Catholic, Christian community while living within the context of a broader culture.

Religious Education 25

3 credits
(No pre-requisite required)

Religious Education (Roman Catholic) 25—Jesus Christ: God's Gift of Salvation invites students to deepen their relationship with Jesus through a prayerful study of Scripture. Students will explore the Jewish historical, religious, and cultural world into which the Messiah was born and the Old Testament covenant fulfilled. Using the Gospels as primary sources, the course explores Jesus' birth, early life, and ministry; his preaching of the Kingdom of God; his special teachings, particularly the parables; and his miracles. It then focuses on the scriptural accounts of his death and Resurrection, and the Ascension, and their central significance for the church's understanding of Jesus as the Christ, the Son of God.

OR

Religions Of the World 35

3 credits
(No pre-requisite required)

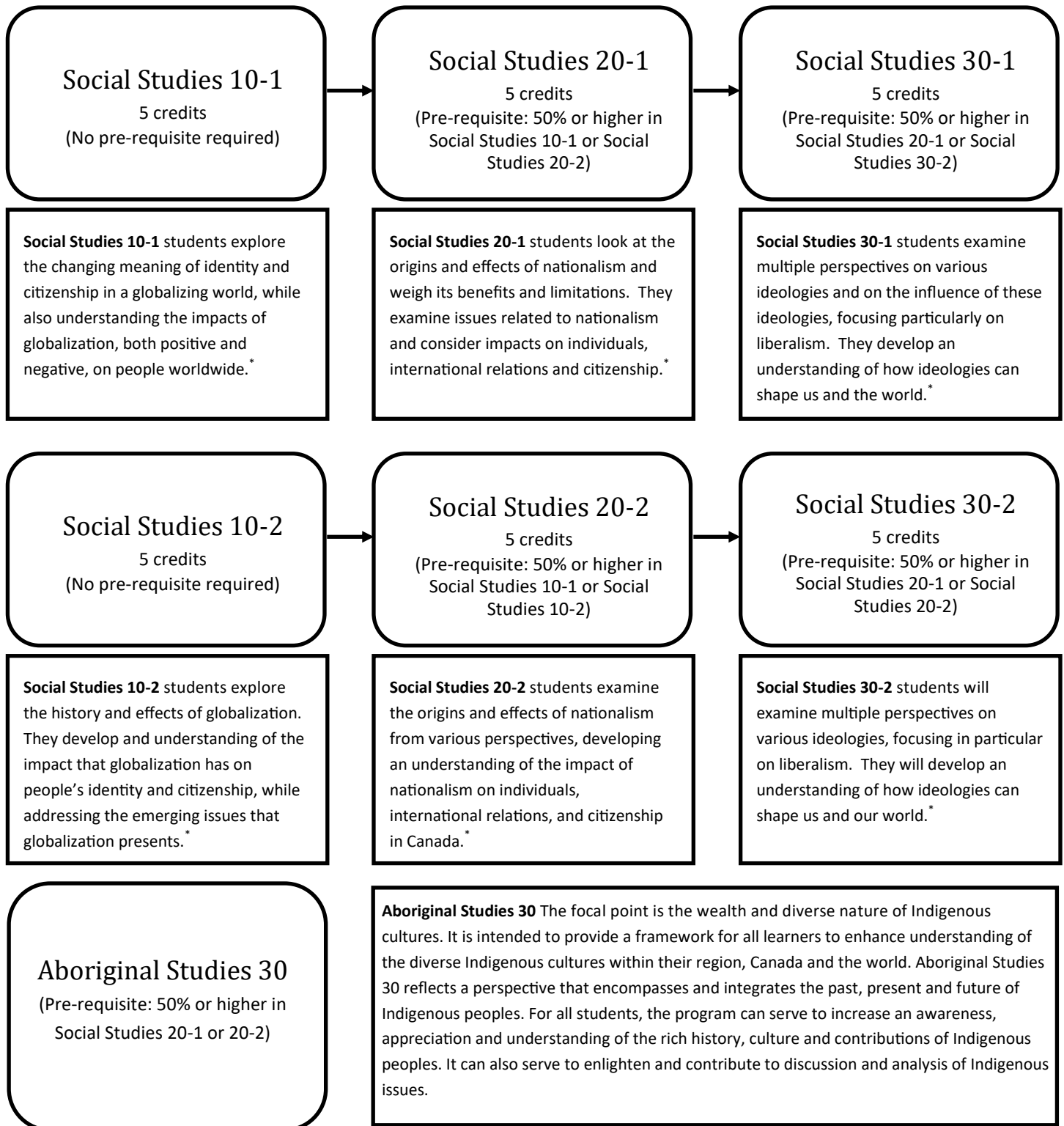
Religions of the World 35 is intended to help young people better understand and deepen their faith, and to appreciate how important faith in God is in becoming fully human. Students will acquire an understanding of and appreciation for other faith traditions.

Religious Education 35

3 or 5 credits
(No pre-requisite required)

Religious Education (Roman Catholic) 35—In Search of the Good challenges students to understand themselves as moral persons called to discipleship by living the way of Christ. Through an examination of ethical theories, the revelation of Sacred Scripture, and the lived experience and teaching of the Catholic Church, the course invites students to mature as active participants in their faith. At the heart of catechesis is the human search for happiness as the completion of the superabundant love of God. The same tension which exists between the revelation of God's love and the explorations of human reason are worked out in the areas of freedom, justice, human relations, ecology, reconciliation, life in the community and political life.

Social Studies



“Social Studies provides opportunities for students to develop the attitudes, skills and knowledge that will enable them to become engaged, active, informed and responsible citizens. Recognition and respect for individual and collective identity is essential in a pluralistic and democratic society. Social Studies helps students develop their sense of self and community, encouraging them to affirm their place as citizens in an inclusive, democratic society.” - Alberta Education Program of Studies

* Learn Alberta—Grades at a Glance

Science

Science 10
5 credits
(Pre-requisite: 50% or higher in Grade 9 Science)

Science 10 What happened to that energy? Science 10 students are introduced to the biological, chemical, physical and Earth sciences. By studying chemical reactions, cellular and multicellular processes that occur in plants, the conservation and conversion of energy, and Earth's climate, they discover how energy is transformed. Students are exposed to a variety of learning strategies including labs, investigations and hands on activities.

Biology 20
5 credits
(Pre-requisite: 50% or higher in Science 10)

Biology 20 topics include: energy, matter exchange, ecosystems, population change, photosynthesis, cellular respiration, and human systems.

Semestered or Full-Year
Recommend semestering

Chemistry 20
5 credits
(Pre-requisite: 50% or higher in Science 10)

Chemistry 20 topics include: diversity of matter, chemical bonding, forms of matter, gases, solutions, acids, bases, and quantitative chemical changes.

Semestered or Full-Year
Recommend semestering

Physics 20
5 credits
(Pre-requisite: 50% or higher in Science 10)

Physics 20 topics include: kinematics, dynamics, circular motion, work, energy, oscillatory motion and mechanical waves.

Semestered or Full-Year
Recommend semestering

Biology 30
5 credits
(Pre-requisite: 50% or higher in Biology 20)

Biology 30 topics include: nervous system, reproduction, development, cell division, genetics, molecular biology, population and community dynamics.

Semestered or Full-Year
Recommend semestering

Chemistry 30
5 credits
(Pre-requisite: 50% or higher in Chemistry 20)

Chemistry 30 topics include: thermochemical changes, thermoelectrical changes, organic compounds, and chemical equilibrium focusing on acid-base systems.

Semestered or Full-Year
Recommend semestering

Physics 30
5 credits
(Pre-requisite: 50% or higher in Physics 20)

Physics 30 topics include: momentum, impulse, forces, fields, electromagnetic radiation, and atomic physics.

Semestered or Full-Year
Recommend semestering

Scientific Research 35
3 credits
(Pre-requisite: 50% or higher in Science 10)

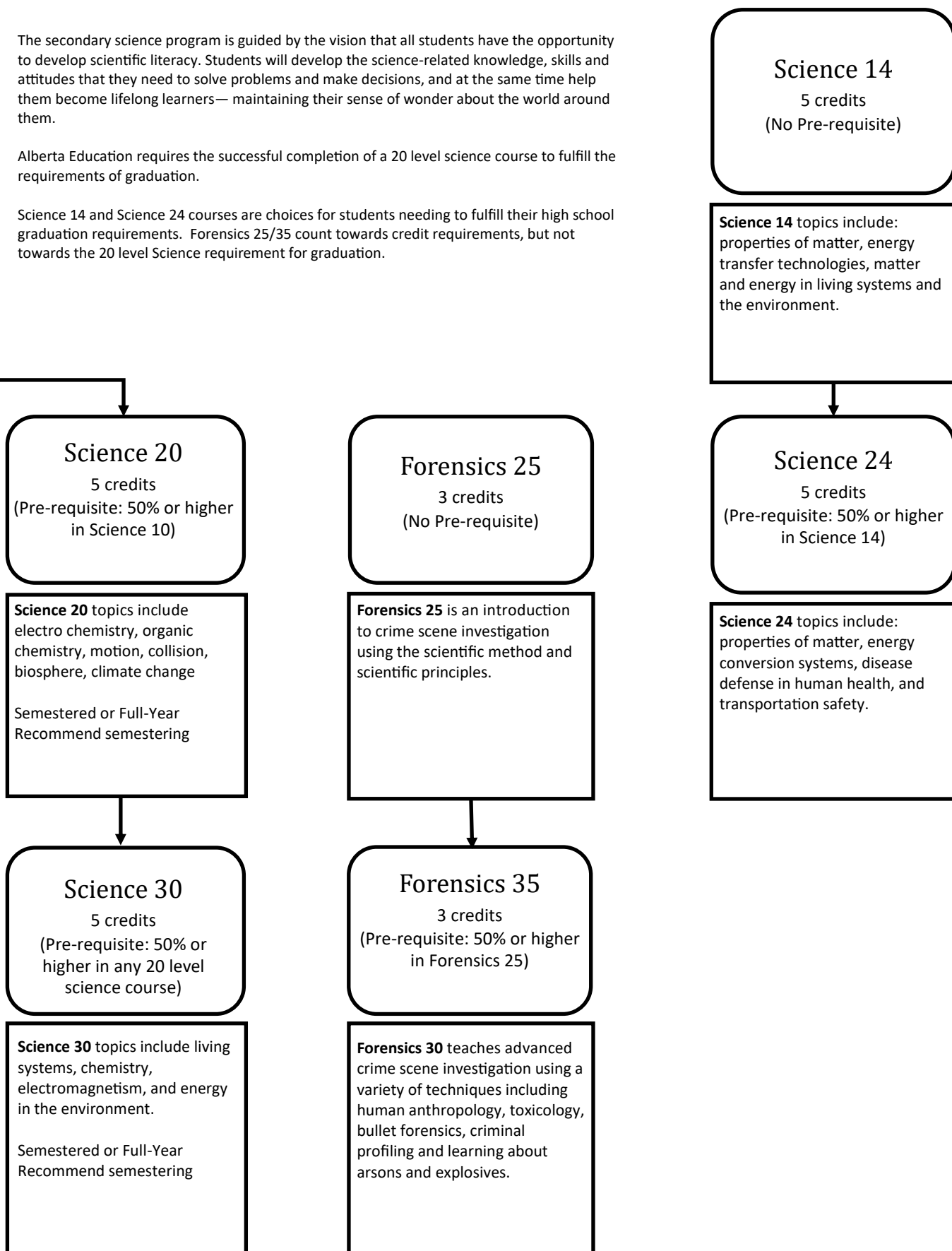
Scientific Research 35
Scientific Research is a 3-credit course offered to students interested in completing authentic research in a scientific field. Students design and execute research projects with the support of science mentors and a teacher facilitator.

Science

The secondary science program is guided by the vision that all students have the opportunity to develop scientific literacy. Students will develop the science-related knowledge, skills and attitudes that they need to solve problems and make decisions, and at the same time help them become lifelong learners— maintaining their sense of wonder about the world around them.

Alberta Education requires the successful completion of a 20 level science course to fulfill the requirements of graduation.

Science 14 and Science 24 courses are choices for students needing to fulfill their high school graduation requirements. Forensics 25/35 count towards credit requirements, but not towards the 20 level Science requirement for graduation.



Advanced Placement (AP)

Bishop Carroll is proud to be one of the only self-directed Advanced Placement Schools in Canada. Over 22,000 secondary schools world-wide offer AP courses making it the world's most widely used academic program.

What is AP?

- An internationally recognized honors program for high school students that allows high school students to do university level work while still in high school. An AP course is considered the equivalent of a first year university level course.
- Universities all over the world recognize the rigor involved in taking AP courses.

How does AP work?

- Students can choose which AP courses they want to take.
- Students will not register for AP courses online. They will register for the regular corresponding course and then meet with the AP coordinator in September to sign up for AP.
- Students complete AP enrichment courses of the grade 10, 11, and 12 level in their chosen subject area(s).
- Upon completion of these enrichment courses, the student writes an AP exam, which is held each May. The score on this exam could get the student university credit.
- In Alberta, we have to teach the provincial curriculum, so AP enrichment courses consist of the Alberta courses and supplemental topics.

How is AP different at Bishop Carroll?

- Our flexible program allows students to move intermittently and seamlessly between our AP stream and our regular stream at any time. (Even halfway through the course!) This can accommodate a student's changing interests over time.

Why should you consider doing AP?

- The challenge—AP is a rigorous program!
- University preparation—How better to prepare for university than by doing university level work?
- University credit can be obtained by writing AP exams. This depends on which university you plan on attending.
- Some university scholarships are only open to AP or IB students.

Bishop Carroll is pleased to offer AP courses in the following subjects:

- Biology
- Chemistry
- English Literature and Composition
- French Language and Culture
- Math (Calculus)
- Physics
- Psychology (Social Studies)
- Spanish Language and Culture
- Studio Art

Off-Campus Opportunities

Work Experience

Work experience is an opportunity for students to develop employability skills while earning valuable high school credits. Students can work part time or over the summer exploring a career. This program is open to all high school students. A minimum of 75 hours of career-related experience at a work site is required. Student progress is monitored on a regular basis. These positions must comply with the district guidelines and are approved on an individual basis. Work experience is a year-round program.

Dual Credit

The purpose of dual-credit is to provide opportunities for students to personalize their high school experience by exploring and building on their career interests. The Calgary Catholic School District provides the opportunity for Grade 11 and 12 students to earn high school credits in conjunction with either post-secondary or workplace certification.

The following programs are currently taught in partnership with local post-secondary institutions.

- Engineering related programs
- Nutrition for Healthy Living
- Carpentry
- Pharmacy Assistant
- Veterinary Technical Assistant
- Hospitality and tourism
- Software development
- Pre-employment programs in Carpentry, Electrician, Pipe Trades and Welding (See RAP program).

Interested Grade 10 students should attend the information evening with their parents. These are generally held after Christmas of their Grade 10 year. The tuition for the successful applicants is paid by the district.

Registered Apprenticeship Program (RAP)

The Registered Apprenticeship Program (RAP) is an opportunity for high school students to earn credits towards their high school diploma, while also counting hours towards their first year apprenticeship in one of Alberta's more than 50 trades.

This program allows students to begin training in any one of the apprenticeship trades while still in high school. The program is for students who have made career choices in specific trades. Students spend part of the year in school completing graduation requirements and part in a work environment as a registered apprentice.

Career Discovery Program

In the Career Discovery Program, students will have the chance to explore potential careers in their area of interest and gain real life experience. Through job-shadowing opportunities, students will receive exposure to areas such as law, engineering, architecture, veterinary medicine, oil and gas, or information technology (IT). This summer program is open to Grade 10 and 11 students.

Green Certificate Program

This program allows the trainees opportunities to enter a variety of Agriculture related pathways (equine studies, field crop, cow/calf production). Go to www.agriculture.alberta/greencertificate for more information.

Exploratory Programs

Exploratory Programs allow students enrolled in high school the opportunity to explore career options that could help them decide, at an early age, whether a career opportunity in the skilled trades is for them. These programs are particularly relevant as there is an identified and urgent need for skilled trades' professionals in Alberta.

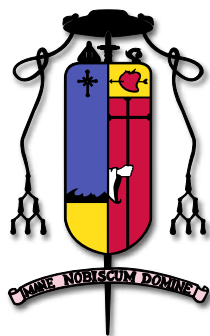
Students who are accepted into the program work with a skilled journeyman in a state of the art training facility and are supervised by an off-campus education teacher. Exploratory programs allow students the opportunity to earn work experience credits and workplace certifications that will help them prepare to apply for a career as soon as they graduate high school.

The programs typically take place during the school year while the student attends high school. This opportunity provides the student with a unique and personalized high school experience. In conjunction with industry partners, the Calgary Catholic School District offers exploratory programs in the following areas: Wood Trades, Ironworker Trade, Pipe Trade, Carpentry and Metal Trades.



Home of the Cardinals

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Digital Media Arts • Travel • Hockey Canada Skills Academy*



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CALGARY CATHOLIC SCHOOL DISTRICT