

MICHAEL A. RIFFEL CATHOLIC HIGH SCHOOL

PROGRAM OF STUDIES

GRADE 11 and 12



School Mission Statement

Michael A. Riffel Catholic High School is a Catholic, student-centered school which focuses on developing respectful, responsible and knowledgeable citizens firmly grounded in the values of our Christian Faith. Our school aligns with the vision, mission, values and commitments of the Regina Catholic School Division.



THE CREDIT SYSTEM

Secondary education (Grades 10, 11, 12) operates on a credit system. For each class successfully completed, the student earns one (1) credit. Students accumulate credits from Grades 10 to 12 and must attain a minimum 24 credits to graduate.

GRADUATION REQUIREMENTS

Grade 10 Standing Minimum 8 credits	Grade 11 Standing Minimum 16 credits	Grade 12 Standing Minimum 24 credits (5 of which must be at the 30 level)
Compulsory courses are: English Language Arts A 10 and English Language Arts B 10; History 10 or Native Studies 10; Science 10; Mathematics 10; Catholic Studies 10; 4 electives at level 10 or higher.	Compulsory courses are: English Language Arts 20; Mathematics 20; Catholic Studies 20; Science 20 6 additional elective credits at level 20 or 30.	Compulsory courses are: English Language Arts A 30 and English Language Arts B 30; Social Studies 30; Canadian Studies or Native Studies 30; Canadian Studies; Catholic Studies 30; A Science 20 or 30; A Social Science 20 or 30; 2 credits in Arts Education or PAA (2 Catholic Studies classes meet the requirements) Wellness 10, Physical Education 20 or Physical Education 30.

TIMETABLE GUIDELINES

- ↗ Grade 10 students cannot have a study hour.
- ↗ Grade 11 students may have a maximum of one study hour a semester (two per year).
- ↗ Check **all** prerequisites.
- ↗ Students entering Michael A. Riffel Catholic from public schools take Catholic Studies at their current grade and are not required to take earlier Catholic Studies classes.
- ↗ Students and parents should discuss course selection carefully.
- ↗ If not enough students register in a course, it cannot be offered within the school, but it may be available as an online offering.
- ↗ Students may not take ELA or Catholic Studies at grade levels above their own.
- ↗ RCSD does offer online learning (www.rcsd.ca/learningonline) opportunities in a variety of subject areas and grade levels. Students must have administrative approval before registering for any online course.

PREREQUISITE REQUIREMENTS

GRADE 9	GRADE 10	GRADES 11 and 12	
English Language Arts 9	English Language Arts A10 English Language Arts B10	English Language Arts 20	English Language Arts A30 English Language Arts B30
English Language Arts 9	English Language Arts A10 English Language Arts B10	Creative Writing 20	
Mathematics 9	Math Foundations and Pre-Calculus 10	Math Foundations 20	Math Foundations 30
Mathematics 9	Math Foundations and Pre-Calculus 10	Math Pre-Calculus 20	
		Math Pre-Calculus 30	Calculus 30 OR Calculus 30 AP and Integral Calculus 30
Mathematics 9	Math Workplace & Apprenticeship 10	Math Workplace & Apprenticeship 20	Math Workplace & Apprenticeship 30
Science 9	Science 10	Health Science 20 OR Environmental Science 20	Biology 30
Science 9	Science 10	Physical Science 20	Chemistry 30 AND/OR Physics 30
Science 9	Science 10	Computer Science 20	Computer Science 30
Social Studies 9	History 10 OR Native Studies 10		Native Studies 30 OR Social Studies 30

No prerequisite requirements exist for the following courses:

Accounting* 10, 20, 30
Arts Education* 10, 20, 30
Band* 10, 20, 30
Choral* 10, 20, 30
Communications Media* 10/20/30
Drama 10, 20, 30
Entrepreneurship* 30
Emergency Services* 20/30
Energy and Mines* 20 & 30

Financial Literacy 20, 30
Food Studies* 10, 30
History 20
Instrumental Jazz* 10, 20, 30
Law* 30
Music* 10, 20, 30
PAA* 10, 20, 30
Photography* 10, 20
Physical Education* 20, 30

High Performance Phys Ed* 20, 30
Psychology 20, 30
Sports Medicine* 20
Studio Art* 20L, 30L
Visual Art* 10, 20, 30
Vocal Jazz* 10, 20, 30
Wellness 10

(* elective course fees apply)

Each subject area has a number of grade-level class options. Prerequisite information is listed on this booklet page and alphabetical course descriptions follow our pathways diagrams.

POST-SECONDARY PREPARATION

Many post-secondary programs require more than simple graduation requirements. For this reason, we encourage students to take more classes than they “need”. Each post-secondary institution has its own admission requirements beyond the basic graduation requirements. Please research these requirements when planning your course selections. While many students state they do not “need” courses, the reality is that many students change majors at university or move into new careers later in life. Students should take classes now to avoid future disappointment.

THE ADVANCED PLACEMENT PROGRAM

The AP Challenge

Do you love to learn? Are you highly motivated? Would you like to challenge yourself academically and study with motivated peers? Would you like to improve your critical thinking, organizational and writing skills? Are you interested in earning a university credit while in high school? Would you like to enrich your high school experience and be very well prepared to meet the demands of post-secondary education programs? Then, Advanced Placement (AP) may be for you!

All About AP

The Advanced Placement Program is sponsored by the College Board, in Princeton, New Jersey, and currently offers 34 university-level courses with over 3800 participating universities and colleges in 125 countries. AP courses are offered internationally with over 1.85 million students writing approximately 3.2 million AP exams. Students who participate in the AP Program and then challenge the AP exams can earn a credit or advanced placement in first year university courses depending on their AP results.

AP Course Offerings at Riffel

AP English Literature & Composition – See Page 10

AP 2D Art & Design/AP Drawing – See Page 12

AP Calculus – See Page 14

AP Psychology – See Page 22

**AP Computer Science* – See Page 19 (*RCSD Learning Online)

AP Exams & Results

AP teachers cover the Saskatchewan Education Curriculum in each subject area and help students to meet the additional demands of the AP course they are studying. AP exams are written in May of each year and are set and graded by the College Board. Saskatchewan Education recognizes Advanced Placement Calculus 30, Psychology 30, English Language Arts A30 and B30, and Visual Art 30 courses on student transcripts. When students register to write AP exams they can arrange to have their AP results sent from the College Board to the receiving post-secondary institution(s). Students need to check the policy statements on acceptance of AP standing at the institution they plan to attend. Any 30 level AP courses that are dropped after mid-November are charged a \$55 fee to cover the costs of the unused exams.

How to Register

If you are in Grades 9, 10 or 11 and are not currently working toward AP course work at Grade 12 but would like to, then discuss this option with your parents and teachers. See a Guidance Counsellor to discuss the possibilities.

AP Pathway Course Recommendations

We offer a preparation approach for a variety of AP classes and we encourage students to enrol in the classes listed below to support their success at the Grade 12 level.

Suggested AP Calculus Pathway:

Grade	Semester 1	Semester 2
10	Foundations and Pre-Cal 10 Advanced	Math Foundations 20 Advanced
11	Math Pre-Cal 20 Advanced	Math Pre-Cal 30 Advanced
12	Calculus 30AP <u>and</u> Integral Calculus 30	Calculus 30AP <u>and</u> Integral Calculus 30

Suggested AP English Language Arts Pathway:

Grade	Semester 1	Semester 2
10	ELA A10 Advanced	ELA B10 Advanced
11	Creative Writing 20	ELA 20 Advanced
12	ELA B30AP	ELA A30AP

Suggested AP 2-D Art & Design/AP Drawing Pathway:

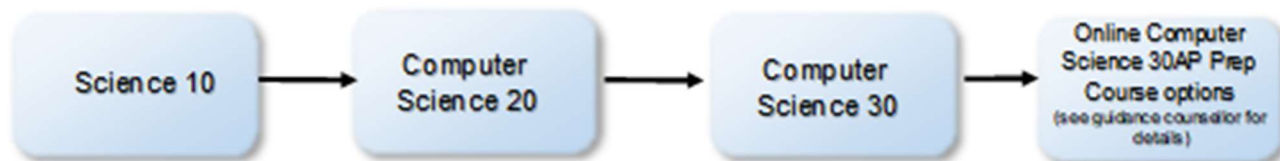
Grade	Semester 1	Semester 2
10	Visual Art 10 (either semester)	
11	Visual Art 20	Studio Art 20L
12	Studio Art 30L	Visual Art 30AP

Suggested AP Psychology Pathway:

Grade	Semester 1	Semester 2
10	History 10 or Native Studies 10 (either semester)	
11*	Psychology 20AP	Psychology 30AP
12		

*Typically students take AP Psychology in their Grade 11 year, but taking it in Grade 12 is a possibility.

Suggested AP Computer Science Pathway:



*Please note that Computer Science AP Prep **or** Robotics and Automation 30 AP Prep are courses offered through RCSD Learning Online. Please speak to a Guidance Counsellor if you are interested in learning more about these courses.

* Computer Science AP Prep **or** Robotics and Automation 30 AP Prep can only be taken in Semester 2, as the AP Computer Science Exam takes place yearly in May.

BAND



BAND 10/20/30 – one credit

Prerequisite: none

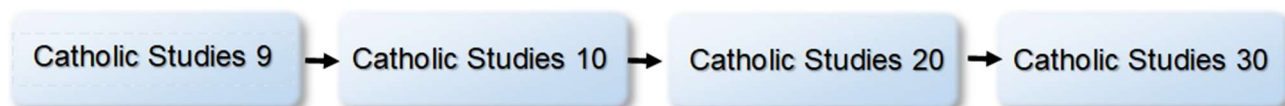
Band is a year-long instrumental music class which continues building on the skills learned in the elementary and Grade 9 band program. Students participate in full band rehearsals and small group lessons, as well as having the opportunity for solo or small ensemble projects. Through practice and performance, students will learn: different styles of music and musical concepts, music theory, and increased technical skills on their chosen instrument. The band is involved in multiple activities and performances during the year - including public concerts, festivals, school activities, and the annual band trip.

INSTRUMENTAL JAZZ 10/20/30 – one credit

Auditions

Instrumental Jazz are auditioned ensembles that rehearse once per week. It is an extension of the Band program and therefore students must be registered in Band as well. The class focuses on jazz repertoire, improvisation, and jazz pedagogy. Students are expected to practice the repertoire on their own between rehearsals.

CATHOLIC STUDIES



CATHOLIC STUDIES 10 – one credit

Prerequisite: Catholic Studies 9

Catholic Studies 10: Understanding the Call to Evangelize - The aim of Catholic Studies is for students to understand, value, and engage in their faith so that they may hear an invitation, or deepen their commitment, to live as followers of Jesus Christ. Throughout all grades, students investigate, apply and reflect on various aspects of these actions which call upon the Church to: proclaim Jesus Christ, worship Christ through the sacraments, form a communion of people, give witness, and serve. The Catholic Studies 10 curriculum focuses in part on the role and importance of evangelization. Students examine what it means to be called to evangelize and consider how and why the Church evangelizes.

CATHOLIC STUDIES 20 – one credit**Prerequisite: Catholic Studies 10**

Catholic Studies 20: Exploring the Joy of a Catholic Identity - The aim of Catholic Studies is for students to understand, value, and engage in their faith so that they may hear an invitation, or deepen their commitment, to live as followers of Jesus Christ. Throughout all grades, students investigate, apply and reflect on various aspects of these actions which call upon the Church to: proclaim Jesus Christ, worship Christ through the sacraments, form a communion of people, give witness, and serve. The Catholic Studies 20 curriculum focuses in part on the role and importance of Catholic identity. Students examine what it means to live as a disciple of Christ and how this affects the way that one lives one's life.

CATHOLIC STUDIES 30 – one credit**Prerequisite: Catholic Studies 20**

Catholic Studies 30: Embracing Spiritual and Religious Life - The aim of Catholic Studies is for students to understand, value, and engage in their faith so that they may hear an invitation, or deepen their commitment, to live as followers of Jesus Christ. Throughout all grades, students investigate, apply and reflect on various aspects of these actions which call upon the Church to: proclaim Jesus Christ, worship Christ through the sacraments, form a communion of people, give witness, and serve. The Catholic Studies 30 curriculum focuses in part on the importance of being both a spiritual and religious person. Students examine how they are called by God to freely choose a life of service for others that will help to transform society and the world.

CHORAL

Choral 9

Choral 10

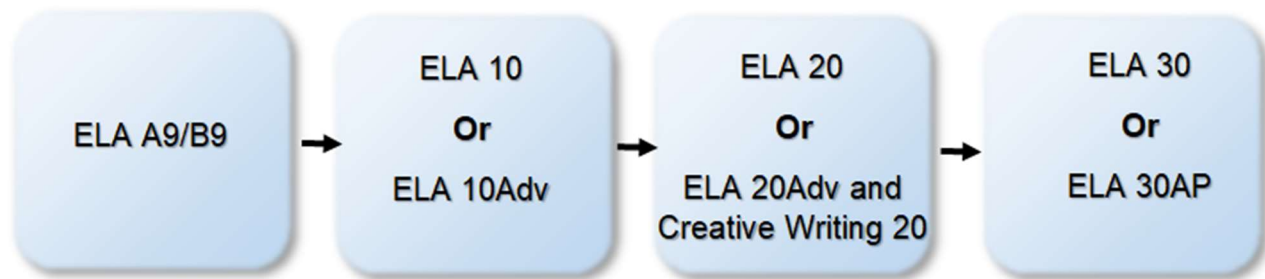
Choral 20

Choral 30

CHORAL 10/20/30 – one credit each**Prerequisite: none**

Choral is a curricular class combining friendship, teamwork, singing, and performance. Students learn singing technique and basic music theory. Throughout the year, they participate in events such as the System Choral Christmas concert and music festivals. This class spans the entire school year and is a popular choice for many students.

ENGLISH LANGUAGE ARTS



CREATIVE WRITING 20 – one credit

Prerequisite: ELA A10 AND B10

This course focuses on writing as an art form. Students are encouraged to develop creative ideas and express them through writing in a variety of forms and genres. The four major genres include: poetry, short fiction, play writing and non-fiction. One unit is an independent project focused on individual student interest. If students are pursuing the AP English Pathway, they are encouraged to add this course to Grade 11 course selections.

ENGLISH LANGUAGE ARTS A10 – one credit

Prerequisite: ELA 9

This course develops two themes: The Challenges of Life and The Mysteries of Life. Short stories, poetry, a novel, a modern play, essays and non-fiction are used to develop skills and proficiency in reading, writing, listening and speaking.

ENGLISH LANGUAGE ARTS A10 Advanced – one credit

Prerequisite: ELA 9

This class is for students with a keen interest in English Language Arts and would like an extra challenge. Advanced classes are intended to provide extra rigor and prepare students who are considering the ELA A30/B30 Advanced Placement class. The course themes and focus remain the same as ELA A10 (see above); however, literature selections number of assignments, and types of assignments will vary.

ENGLISH LANGUAGE ARTS B10 – one credit

Prerequisite: ELA 9

The course develops two themes: Equity and Ethics and the World Around and Within Us. Short stories, poetry, a novel, a Shakespearean play, essays and non-fiction are used to develop skills and proficiency in reading, writing, listening and speaking.

ENGLISH LANGUAGE ARTS B10 Advanced – one credit

Prerequisite: ELA 9

This class is for students with a keen interest in English Language Arts and would like an extra challenge. Advanced classes are intended to provide extra rigor and prepare students who are considering the ELA A30/B30 Advanced Placement class. The course themes and focus remain the same as ELA B10 (see above), however, literature selections, number of assignments and types of assignments will vary.

ENGLISH LANGUAGE ARTS 20 – one credit**Prerequisite: ELA A10 & ELA B10**

This course encourages students to reflect on the many aspects of humanity's life journey through the themes of Starting Out – Beginning and Becoming and Moving Forward – Establishing and Realizing. Students study both the reading and writing of essays, with a specific focus on the research essay. Through reading, writing, listening, viewing and presenting activities students will gain an understanding and appreciation of literature and language. Literature units include short stories, poetry, a novel, a drama, and non-fiction.

ENGLISH LANGUAGE ARTS 20 Advanced – one credit**Prerequisite: ELA A10 & ELA B10**

This class is for students with a keen interest in English Language Arts and would like an extra challenge. Advanced classes are intended to provide extra rigor and prepare students who are considering the ELA A30/B30 Advanced Placement class. The course themes and course focus remain the same as ELA 20 (see above), however, literature selections, number of assignments and types of assignments will vary. Students are encouraged to take Creative Writing 20 as a complement to this course.

ENGLISH LANGUAGE ARTS A30 – one credit**Prerequisite: ELA 20**

This language-based course is organized around Canada's diversity in people and landscapes. It reflects a balance of the six strands of communication: speaking, listening, reading, writing, viewing, and representing. The two themes Canadian Perspectives: Distinct and Rich and Canadian Landscapes: Diverse and Dynamic use a variety of literary forms - poetry, prose and plays - in order to explore Canada.

ENGLISH LANGUAGE ARTS B30 – one credit**Prerequisite: ELA 20**

This course integrates reading, writing, speaking, listening, viewing, and representing. Students explore their thoughts, beliefs, and assumptions as they examine issues related to their world and to the world of others. The two themes The of Search for Self and The Social Experience employ a variety of literary forms from across the world, including a Shakespearean Drama.

ENGLISH LANGUAGE ARTS A30/B30 ADVANCED PLACEMENT – two credits**Prerequisite: ELA 20**

Bright, diligent, tenacious and perceptive students who want to prepare for the rigours of post-secondary programs enrol in this challenging course. Students will complete ELA A30 and ELA B30 courses while they prepare for the Advanced Placement examination in May. Students are expected to complete a reading list during the summer months. An interest in literature and determination to learn are prerequisites. This year-long course requires intensive reading, writing, research, and discussion. Interested students should contact the course's instructor for more information.

FINE ARTS



ARTS EDUCATION 10/20/30 - one credit each course

Prerequisite: none

Following the Arts Education 10/20/30 curriculum, this course will be a directed study on elements of theatre and musical theatre including, but not limited to, dance, music, voice, set design, costume design and choreography. The course looks at taking a play or musical through the stages of development through to performance as a mentor, cast or crew member of 'That's Possible Theatre Company.' An expectation of this class is that students participate in the Spring 'That's Possible' performance as a mentor or crew member.

DRAMA 10 – one credit

Prerequisite: none

In this introductory drama class, the students will get experience in a wide variety of drama techniques: tableaux, mime, stage fighting, special stage techniques, vocal training, choral reading, reader's theatre and scene work. Through the course, students will develop a sense of confidence, a sense of community, and an appreciation for the art form.

DRAMA 20 – one credit

Prerequisite: none

Students study acting and technical operations and are expected to participate and allow themselves to be risk takers. Students take on various roles, studying script, writing script, and improvising scenes. Through the course the students develop their public speaking abilities, and creative thinking skills. More importantly, students learn how to cooperate with one another and gain a respect for others' differences. A unit covering the history of drama is included, as well as a unit where students create a Devised/Collective Theatre Performance.

DRAMA 30 – one credit**Prerequisite: none**

Students in this course develop their acting skills by studying script, viewing and critiquing plays and producing scenes with fellow classmates. A unit covering Canadian Theatre is included. Through the course, students develop self-confidence and a respect for others.

MUSIC 10 – one credit**Prerequisite: none**

This course is designed to review the fundamentals of music. It is an opportunity for students to learn how to play an instrument of their choice, as well as develop their understanding of music theory. They will also examine Indigenous music through a research project.

MUSIC 20/30 – one credit each**Prerequisite: none**

This class further develops the study of music fundamentals. Students are given the opportunity to learn a new instrument of their choice or continue to master their skills on a previous instrument. The course takes an in-depth look at various musical styles (rock, pop, country, classical, etc.) and exams at the various career opportunities in the music industry through a research project.

STUDIO ART 20L – one credit**Prerequisite: none**

It is suggested that students take Visual Arts 20 before taking this course. Throughout this course, students develop identity, interdependence and voice through inquiry learning. During this course, students work in a variety of mediums and compositions in order to begin building a physical and digital portfolio. Students will understand and appreciate the role of visual artists and their voice in history and contemporary society. By the end of this course, students are exposed to more experience with media and technique in order to pursue their own areas of interest. Students will have an in-depth understanding of research, style and “voice”. As well, the sketchbook is an integral part of their creative process as artists. Students look through the lens of Critical/Responsive and Cultural/Historical as a source of inspiration for this course. This course becomes less teacher directed and more inquiry based from the student’s perspective.

STUDIO ART 30L – one credit**Prerequisite: none**

It is suggested that students take Visual Arts 20 before taking this course. This course is designed to challenge students with strong artistic ability. Students must work towards submission of the AP portfolio. During this course, students will develop their ideas in sketchbook in order to begin the concentration section of the AP exam. Students can choose to draw or paint in relation to a topic they choose to explore. Emphasis is on development of individual style and content. **AP Art students must register for both AP Studio Art 30L and Visual Art 30AP.**

VISUAL ART 10 – one credit**Prerequisite: none**

This course is the study of the elements of art and the principles of design. Students attain knowledge and techniques that advance their abilities to create successful artwork. Through the course, the students will be expected to recognize the elements and the principles and be able to discuss other artists’ use of these fundamentals. The students will then be expected to apply their new knowledge by creating works that are aesthetically pleasing. Methods include drawing, painting and collaging.

VISUAL ART 20 – one credit**Prerequisite: none**

Students without Visual Art 10 will encounter a program similar to that described in Visual Art 10.

Experienced students will continue to use the fundamentals they learned in the previous year while they respond to the following themes: ideas & inspiration; popular culture and mass media; cultural communities; spiritual images and visual art. During these studies, students will view, discuss and create works using two-dimensional and three-dimensional based media. Students considering the AP 2-D Art & Design/AP Drawing pathway should register for both Visual Art 20 and Studio Art 20L in their Grade 11 year.

VISUAL ART 30 AP – one credit

Prerequisite: None

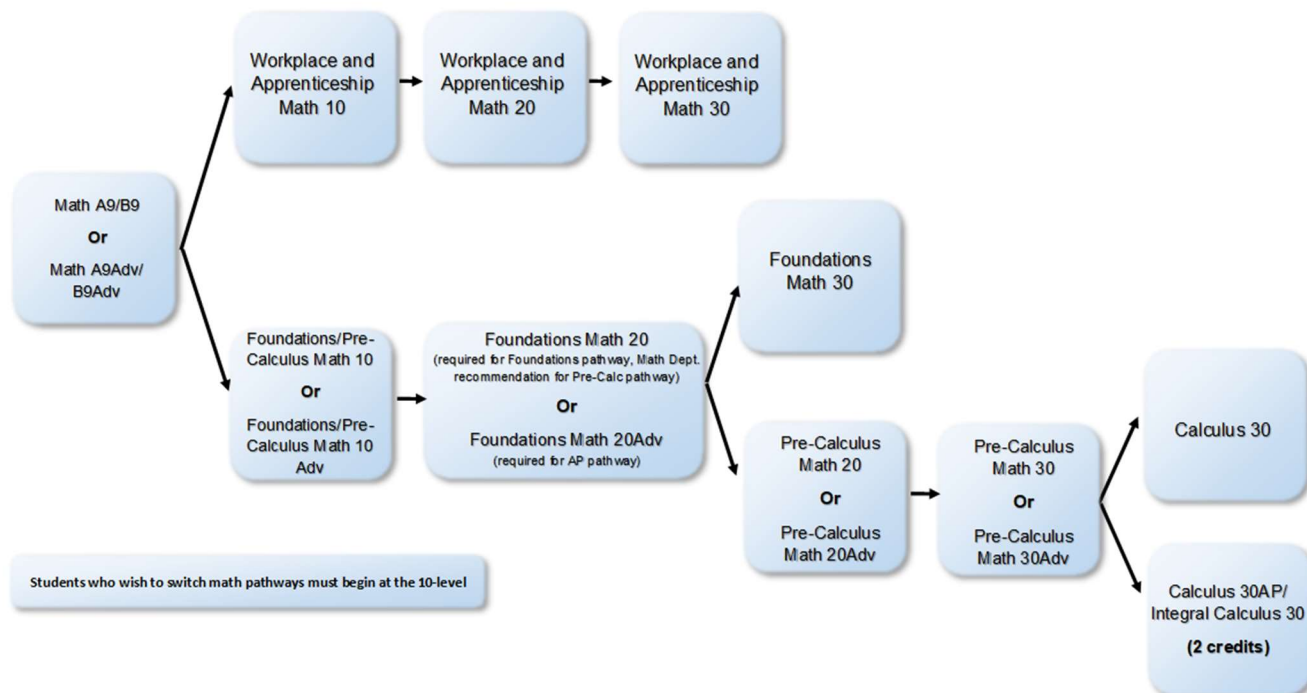
Interested students must meet with Mrs. Lach. This course is designed for those students who would like to complete portfolio work for submission to post-secondary programs. AP Art students must register for both Visual Art 30AP and Studio Art 30L.

VISUAL ART 30 – one credit

Prerequisite: none

The Visual Art 30 Program is an exploration of self-identity in relation to change, differing perspectives and Global Cultural Explorations. The students will explore ways that they and other artists are able to manipulate visual elements and images to express an idea or experience. If a student is taking Studio Art 30L, they are not eligible for this class, but instead must include Visual Art 30 AP in their Grade 12 course selections.

MATHEMATICS



MATH 30 CALCULUS – one credit

Prerequisite: Math 30 Pre-Calculus

This course is designed as an introduction to Calculus and deals with limits; slope of the tangent line; derivatives, and their application to motion, related rates, and maximum and minimum problems; and area and integration, if time permits. Calculus 30 is intended for the student who is academically strong in the field of mathematics.

MATH 30 CALCULUS AP AND INTEGRAL CALCULUS 30 – 2 credits

Prerequisite: Math 30 Pre-

Calculus

This combined two-course class will be taken over two semesters. Advanced Placement Calculus is a challenging university-level course. It will be offered to students who take a combination of Advanced Placement (AP) Calculus 30 and Integral Calculus 30. Advanced Placement students have the opportunity to write the 3.5 hour internationally recognized AP Calculus exam in early May. Students who achieve a sufficiently high standing on this external exam can earn credit at most North American universities. Students must register in the combined course noted above in their Grade 12 year. AP Calculus will provide students with the course content of both courses listed below over the two semesters.

AP Calculus 30 is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include: algebraic, transcendental, and piecewise functions, rational expressions, inequalities including absolute value, limits, differentiation and integration.

Integral Calculus 30 is designed to challenge motivated and mathematically able students and to prepare them for the rigours of post-secondary mathematics. Students will explore more advanced calculus topics than are studied in Calculus 30 and will thereby consolidate and strengthen their algebraic and calculus understandings and skills. Topics include: approximation methods; advanced derivatives; integration properties; techniques and applications; basic theorems of calculus; differential equations; and relative growth rates.

MATH 10 FOUNDATIONS AND PRE-CALCULUS – one credit**Prerequisite: Math 9**

This course is a pre-requisite for both Foundations Mathematics 20 and Pre-Calculus Mathematics 20. It introduces and focuses on the following concepts: factoring, rational and irrational numbers, laws of exponents, operations with polynomials, trigonometry, relations and functions, slope, linear relations, graphing, linear systems, the metric system and imperial measurements.

MATH 10 FOUNDATIONS AND PRE-CALCULUS Advanced – one credit **Prerequisite: Math 9**

This course has the same curriculum as the non-Advanced course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Advanced courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus. Students continuing in the AP Calculus pathway should register for both Foundations and Pre-Calculus Math 10 Advanced and Foundations Math 20 Advanced in their Grade 10 course selections.

MATH 20 FOUNDATIONS – one credit**Prerequisite: Math 10 Foundations and Pre-Calculus**

This course is a pre-requisite for Mathematics 30 Foundations in Grade 12. It introduces and/or focuses on the following concepts: inductive/deductive reasoning, proportional reasoning, angles and triangles, sine and cosine laws, data analysis, linear inequalities and basic quadratic functions. As well, students research and present an historical mathematical event or area of interest.

MATH 20 FOUNDATIONS Advanced – one credit **Prerequisite: Math 10 Foundations and Pre-Calculus**

This course has the same curriculum as the non-Advanced course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Advanced courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus. Students continuing in the AP Calculus pathway should register for both Foundations and Pre-Calculus Math 10 Advanced and Foundations Math 20 Advanced in their Grade 10 course selections.

MATH 30 FOUNDATIONS – one credit**Prerequisite: Math 20 Foundations**

This pathway continues the learning begun in Foundations 20 and includes the following topics: inductive and deductive reasoning; financial decision making; set theory and its applications; odds/probability; permutations and combinations; and lastly, logarithmic, exponential, sinusoidal and basic polynomial functions. As well, students have the opportunity to research and present a current event or area of interest using data collection and analysis. This course is intended for students considering post-secondary education routes that do not require calculus.

MATH 20 PRE-CALCULUS – one credit**Prerequisite: Math 10 Foundations and Pre-Calculus**

It is strongly recommended that students take Foundations Math 20 before taking this course. This course is a pre-requisite for Mathematics 30 Pre-Calculus in Grade 12. It introduces and focuses on the following concepts: absolute value, radical numbers, rational expressions and equations, the primary trig ratios, sine and cosine laws, factoring of polynomial expressions, quadratic functions, quadratic equations, inequalities, arithmetic and geometric sequences and series, and reciprocal functions.

MATH 20 PRE-CALCULUS Advanced – one credit**Prerequisite:** Math 10 Foundations and Pre-Calculus

This course has the same curriculum as the non-Advanced course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Advanced courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus. Students continuing in the AP Calculus pathway should register for both Pre-Calculus 20 Advanced and Pre-Calculus 30 Advanced in their Grade 11 course selections.

MATH 30 PRE-CALCULUS – one credit**Prerequisite:** Math 20 Pre-Calculus

This pathway focuses on the following concepts: angles; rational and radical functions; operations on and transformations of functions; trigonometric ratios, equations, functions and identities; the unit circle; logarithms; advanced polynomial functions; relations and their inverses; and finally, combinatorics (permutations, combinations and the binomial theorem). As the pre-requisite for Calculus, this course is intended for students heading to university to study engineering, and other academic professions requiring calculus.

MATH 30 PRE-CALCULUS Advanced – one credit**Prerequisite:** Math 20 Pre-Calculus

This course has the same curriculum as the non-Advanced course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Advanced courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus. Students continuing in the AP Calculus pathway should register for both Pre-Calculus 20 Advanced and Pre-Calculus 30 Advanced in their Grade 11 course selections.

MATH 10 WORKPLACE & APPRENTICESHIP – one credit**Prerequisite:** Math 9

This course is a pre-requisite for Mathematics 20 Workplace & Apprenticeship. Because it focuses on both the metric and imperial systems of measurement, and because its challenging concepts include area of 2-D shapes and 3-D objects, games involving spatial reasoning, the Pythagorean Theorem, polygons, an introduction to trig ratios (sine, cosine and tangent), angles, pricing and currency exchange, and income, the level of mathematics in this course is quite high. The seven units taught in this course are Unit Pricing and Currency Exchange; Earning an Income; Length, Area and Volume; Mass, Temperature and Volume; Angles and Parallel Lines; Similarity of Figures; and Trigonometry of Right Triangles.

MATH 20 WORKPLACE & APPRENTICESHIP - one credit**Prerequisite:** Math 10 Workplace and Apprenticeship

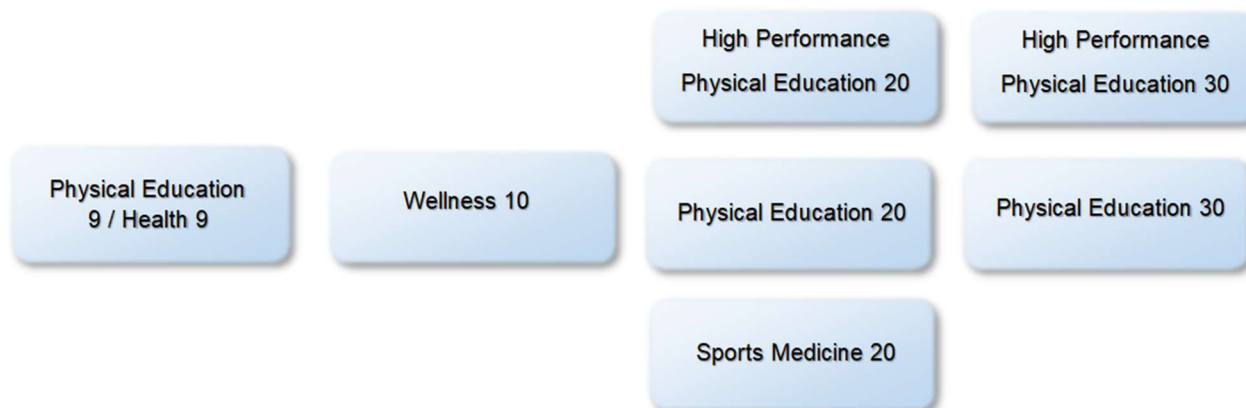
This course is a pre-requisite for Math 30 Workplace & Apprenticeship in Grade 12. It asks students to deepen their understanding of topics introduced in Grade 10, including surface area, volume, capacity, formulas, right triangles, 3D objects, and mathematical games involving numerical reasoning. As well, it introduces the following topics: data analysis using a variety of graphs; personal budgeting; compound interest and financial institution services; slope, including using technology; and unit analysis and scale.

MATH 30 WORKPLACE & APPRENTICESHIP – one credit

Prerequisite: Math 20 Workplace & Apprenticeship

This pathway continues the focus of its two prerequisites on very “real world” mathematics, including mathematics required for the Trades. Real world applications include how to buy a vehicle, and how to set up a small business. Math concepts include linear relations; limitations of measuring instruments; statistics; probability and odds; triangles, quadrilaterals and regular polygons; transformations of 2-D shapes and 3-D objects; trigonometry – the sine and cosine laws; and puzzles and games involving spatial reasoning. This course is primarily intended for students who want to attend some Polytechnic programs and/or work in the Trades. This math may be used for entrance into the following University of Regina Faculties: Media, Arts & Performance; Social Work; Arts; and some Education programs.

PHYSICAL EDUCATION



HIGH PERFORMANCE PHYSICAL EDUCATION 20/30 – one credit each

Prerequisite: none

This course presents a unique opportunity for students who are ready to compete and excel at the highest level of competition possible. Students will be given the opportunity to train during the school day. Students will work on strength and conditioning targeted to improving their skills, performance and fitness level. Students in this class will compete with their peers in semester long team challenges/ games/ and activities. The renewed curricula will also offer students new outcomes related to study of the mind, body and their interconnectedness. Students will also engage a variety of athlete-centered learning outcomes and leadership opportunities. Students in this course commit to high-volume and high-intensity training throughout the school year that will focus on a mind/body connection. This course will be offered before the traditional school day.

PHYSICAL EDUCATION 20/30 – one credit each

Prerequisite: none

In Physical Education 20/30 students develop physical literacy as they explore personal well-being in areas such as fitness, nutrition, mental health and service learning. Students will have opportunities to engage in recreational activities off campus and also examine Indigenous worldviews while focusing on the goals of active living, skillful movement and relationships.

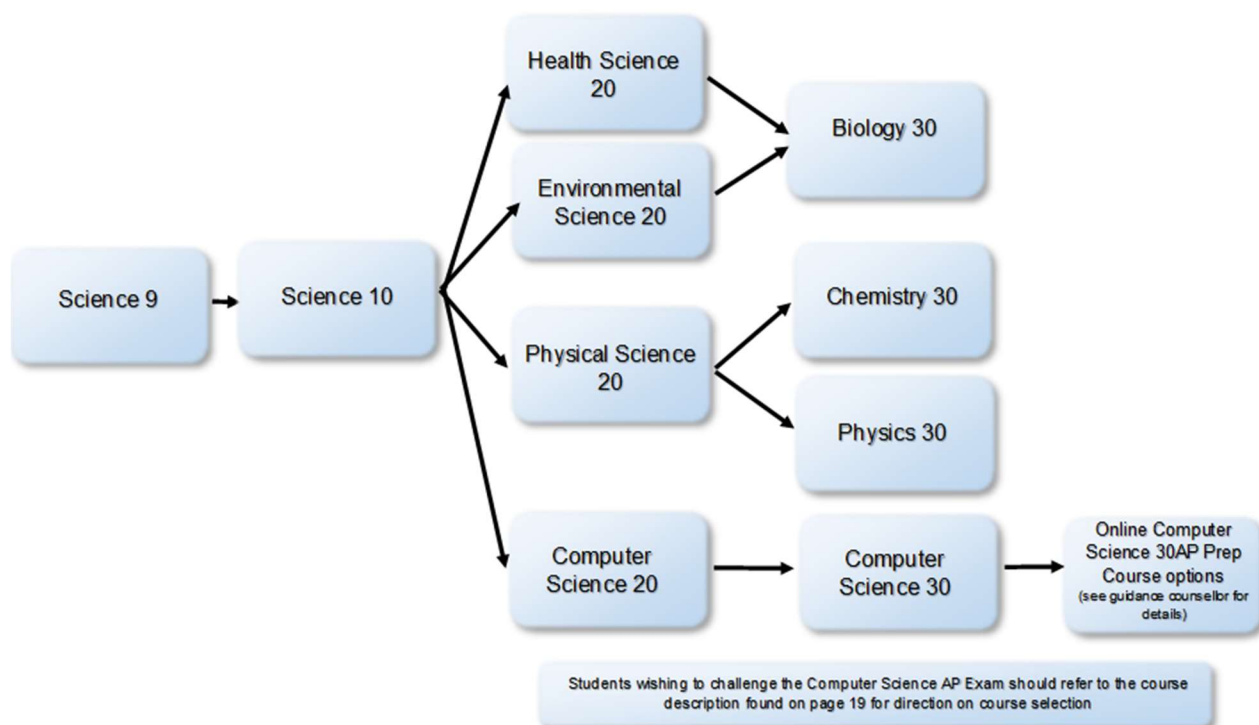
SPORTS MEDICINE 20 – one credit**Prerequisite: none**

This course allows students to learn various aspects of sports medicine. Topics include anatomy of the skeletal and muscular system, injury assessment and management, first aid, preventative taping and nutrition for athletes. In addition, students will be exposed to various sports medicine related careers through guest speakers and a research assignment. There is an emphasis on projects, practical work and unit exams. If a student has a credit in Sports Medicine 10, they are NOT eligible for this course.

WELLNESS 10 – one credit**Prerequisite: none**

Students will explore the dimensions of wellness including mental, physical, social, spiritual and environmental and develop confidence and competence in appreciating a healthy, balanced and active lifestyle. Students will be engaged in learning activities in the classroom, gymnasium, weight room, and outside. Health units include mental health, stress management, relationships and healthy eating. Physical activities include cooperative games, fitness, team and individual sports.

SCIENCES

**BIOLOGY 30 – one credit****Prerequisite: Environmental Science 20 or Health Science 20**

The major units of this course examine the significance of evolution as a key unifying theme in biology, and explore what life is and how it changes over time. Students will examine the organization of life in all kingdoms through the study of biomolecules, cellular processes, and organism function. In genetics and biotechnology, students will explore inheritance, and how information is stored, transmitted, and expressed at chromosomal and molecular levels.

CHEMISTRY 30 – one credit**Prerequisite: Physical Science 20**

A major focus of the course is the study of the role of chemical properties and bonds in determining what makes materials suitable for use in specific applications. Students will actively investigate the nature of equilibrium in chemical reactions. In electrochemistry, students explore oxidation-reduction reactions and the impact of electrochemistry on society and the environment. Other topics include organic compounds and acid-base chemistry.

COMPUTER SCIENCE 20**Prerequisite: Science 10**

Computer Science 20 is an introduction to problem-solving using programming languages. Students will investigate the use of data types, control structures, functions, common coding techniques and one-dimensional arrays to solve a range of problems. Additionally, students will explore the technologies that underlie the Internet, the evolution of computing machinery and computer security practices and privacy implications.

COMPUTER SCIENCE 30**Prerequisite: Computer Science 20**

Computer Science 30 builds on programming and computational thinking concepts introduced in Computer Science 20. Students will investigate data structures, sorting algorithms, effective coding practices and collaborative programming practices. Students will create programs that utilize external files, libraries and recursion. A major focus of this course is the capstone coding project, in which students demonstrate proficiency in object-oriented programming.

COMPUTER SCIENCE 30 AP**Prerequisite: Computer Science 20**

Those students wishing to challenge the AP Computer Science exam must include Computer Science 30 in their course choices (Computer Science 20 is a prerequisite), and then speak to a Guidance Counsellor about choosing an option for AP Exam preparation (via RCSD Learning Online): (1) through a non-credit online AP Computer Science Prep course, or (2) through a for-credit online Robotics and Automation course. Students may enroll in Computer Science 20 in their Grade 10 year and Computer Science 30 in their Grade 11 year, which will set them up to challenge the AP Computer Science exam in Grade 11. Alternatively, students may choose to complete this pathway in Grade 12.

ENVIRONMENTAL SCIENCE 20 – one credit**Prerequisite: Science 10**

Students will learn how to examine local and global environmental issues such as climate change, water, soil, and air quality, urbanization, bio-resource management, waste handling and disposal, land-use planning, and the impacts of agriculture and industry on the environment from scientific and Indigenous knowledge perspectives. Students will examine the role of environmental policies and ethics on decision making and will investigate environmental science related careers. Student directed studies will lead to the development of environmental action plans.

HEALTH SCIENCE 20 – one credit**Prerequisite: Science 10**

This course will challenge students to look at the health science field from holistic and analytic perspectives to provide a basis for making sound personal health choices. Students will examine the range of philosophies that guide health care and consider ethical decision making within those

contexts. Understanding the basic anatomy and physiology of the human body will provide a context for studying the normal and abnormal functioning of various body systems, including the role of nutrition and metabolism. Lastly, students will examine diagnostic tools and procedures and how they are used to inform treatment. Students will also complete an independent study project on a topic related to Health Science.

PHYSICAL SCIENCE 20 – one credit

Prerequisite: Science 10

This course combines chemistry and physics in an integrated manner to investigate concepts related to the foundations of chemistry, including the mole and quantitative analysis of molecules and chemical reactions, and the characteristics and properties of waves and heating and cooling. Student inquiry will guide independent investigations of physical science phenomena.

PHYSICS 30 – one credit

Prerequisite: Physical Science 20

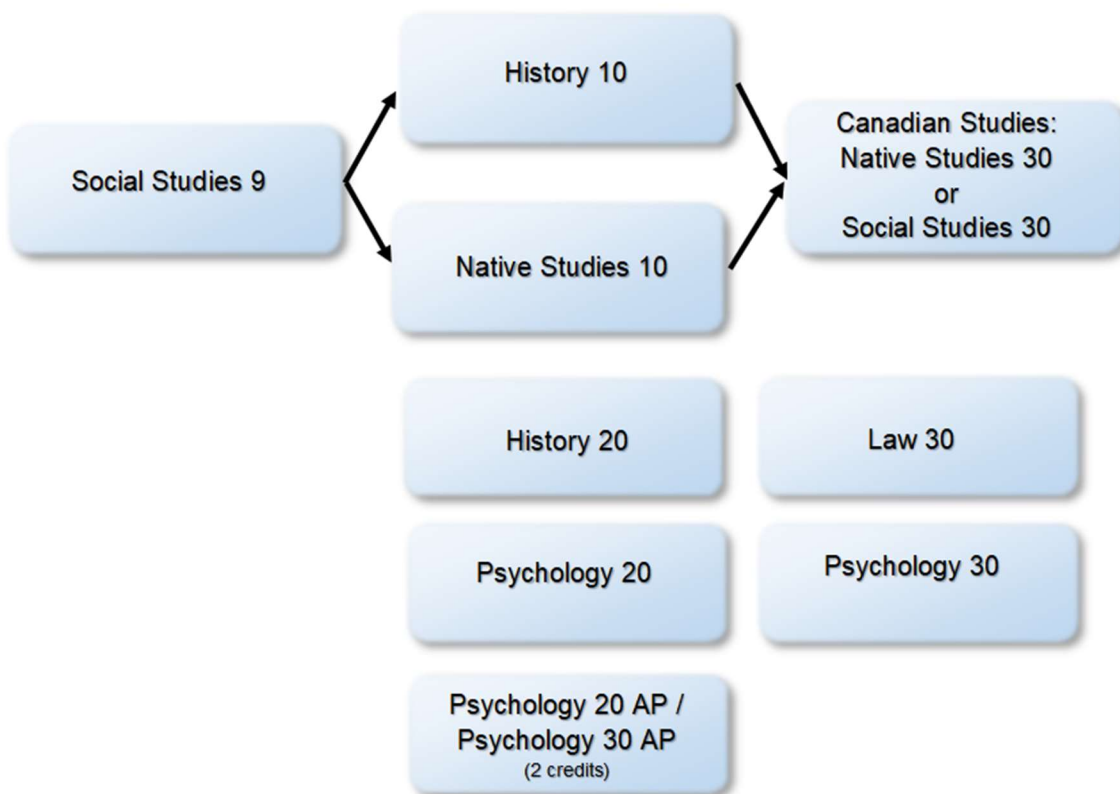
This course enables students to investigate concepts related to modern physics such as quantum mechanics, relativity, and nuclear physics. Students will use Newtonian mechanics to analyze various types of motion and the forces that cause motion. Using the conservation laws of momentum and energy, students will analyze and predict the results of interactions between objects. Lastly, students will explore gravitational, electric, and magnetic fields and their interactions.

SCIENCE 10 – one credit

Prerequisite: Science 9

This course addresses three major themes: Climate and Ecosystem Dynamics, Chemical Reactions and Force and Motion in Our World. In the first, students examine factors that influence Earth's climate and ecosystems, the role of feedback mechanisms within those systems, and the interdependence between climate and ecosystems. Chemical Reactions builds on student understanding of atoms and elements by examining the ways in which chemicals react to form new substances and how to represent chemical reactions using models, words and equations. The third theme enables students to collect and analyze data from a variety of moving objects and to examine the role of force in causing changes to the motion of an object. Students will also investigate career paths related to the various disciplines and sub-disciplines of science.

SOCIAL SCIENCES



HISTORY 10 – one credit

Prerequisite: Social Studies 9

Students develop the knowledge, skills, and values necessary to appreciate the past, understand the present, and influence the future. The theme of this course is social organizations. Within this theme, students will study politics, economics, nationalism, international trade, and international relations in a historic setting. The periods of The Enlightenment, French Revolution, Industrial Revolution, Nineteenth Century Nationalism, Imperialism, and the prelude to World War I will be used to illustrate a variety of global concepts.

HISTORY 20 – one credit

Prerequisite: none

This course examines the major personalities, issues, forces and events that have shaped the 20th Century. We study concepts such as change, ideology, nationalism, imperialism, and collective security. Specific topics include Russian Revolution, World War I, totalitarian regimes, World War II, the Cold War, Arab-Israeli relations, and current world affairs.

LAW 30 – one credit

Prerequisite: none

Law 30 exposes students to the principles of law and knowledge of their rights and responsibilities under the law. Students will become familiar with the law as it affects their personal lives. Discussion will involve topics surrounding consumer, property, criminal, tort, contractual, and

family law. The course is presented to students through lectures, case studies, discussions, mock trials, and includes a class trip to the Court House.

NATIVE STUDIES 10 – one credit

Prerequisite: Social Studies 9

This course will begin a process of personal and cultural awareness and understanding and to promote the development of positive attitudes towards Indigenous peoples. Through the study of Indigenous cultures, students will better appreciate the contributions made by Indigenous peoples to the development of Canada and contemporary Canadian society. Specific units of study include: Identity and World Views, Community and Kinship, Governance, and Economics.

NATIVE STUDIES 30 – one credit

Prerequisite: History 10 or Native Studies 10

The course focuses attention upon the struggles of the Indigenous peoples of Canada. Students will be encouraged to develop creative and critical thinking skills by examining contemporary issues highlighted include: Land Claims, Politics, Economics, Social Development, Traditional Culture, Treaties, The Indian Act, Residential Schools, and Native War Veterans.

PSYCHOLOGY 20 – one credit

Prerequisite: none

Psychology 20 guides students to a better understanding of themselves as individuals and as part of society. It addresses the question: How are the thoughts, feelings and behaviours of people influenced by the actual, imagined or implied presence of others? Topics include understanding behaviour, ethics, motivation, attitudes, personality, familial and cultural influences, and substance abuse/addiction.

PSYCHOLOGY 30 – one credit

Prerequisite: none

Developmental psychology is the field of psychology that focuses on human development across the life span. Students will learn about human growth and changes in behaviour associated with age, including the various stages of development from prenatal through infancy, childhood, adolescence, adulthood and old age.

PSYCHOLOGY 20/30 AP – two credits

Prerequisite: none

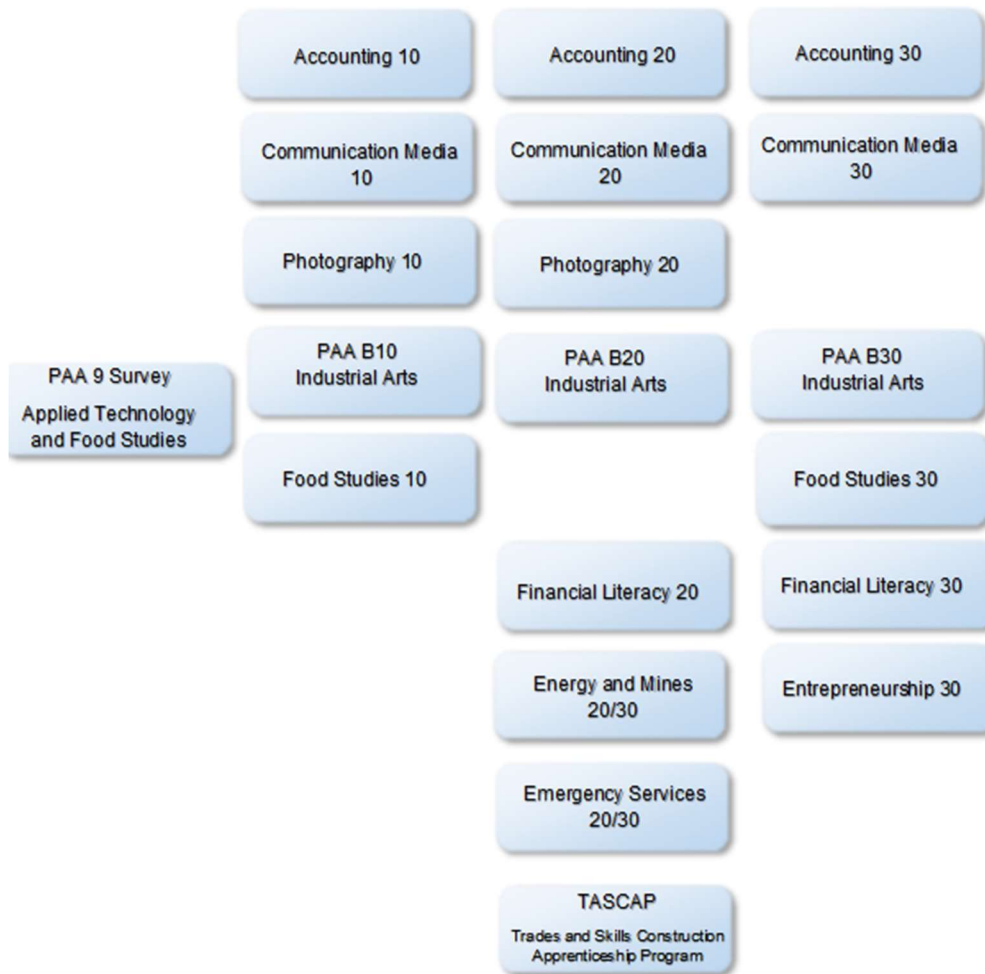
This program offers a challenging program for academically-motivated students. It covers topics such as the study of psychological methods, the principles of developmental psychology, heredity and environment, understanding personality, personality disturbance, emotions, and motivation. Students are credited with Psychology 20 and 30 in the same year. The course is 2 semesters in length.

SOCIAL STUDIES 30 – one credit

Prerequisite: History 10 or Native Studies 10

This course helps develop a thorough understanding of the history, geography, culture, politics, economics and foreign affairs of our country. Critical thinking and research skills are stressed and students are given the opportunity to develop their own views. Some major themes may include: The Road to Responsible Government, French-English Tension, The Powers and Functions of Government, My Rights and Responsibilities as a Canadian, Canada: A Diverse Country, Our First Nations History, and Canada's Regional Economic Disparity. This course will also focus on current events.

PRACTICAL AND APPLIED ARTS



ACCOUNTING 10 – one credit

Prerequisite: none

This first accounting course introduces students to the purposes and practices of accounting. Topics include accounting careers and concepts, starting an accounting system, journalizing business transactions, posting, developing a work sheet with financial statements, adjusting and closing entries, and accounting for a sole proprietorship. Emphasis is on individualized work with a number of practical simulations. Please visit the following link for more information about Business Education: <http://vimeo.com/88067215>

ACCOUNTING 20 – one credit

Prerequisite: none

It is recommended that students take Accounting 10 before taking this course. Basic accounting principles are expanded to include the preparation of the Worksheet, Income Statement, and Balance Sheet for a merchandising firm. Analytical ratios are used to interpret financial statements and make managerial operating decisions. Topics include an accounting system with special journals, subsidiary ledgers, payroll, and end-of-period financial statements. The majority of the work is done on computers using a program called “Aplia” which allows students to get instant feedback. We will also incorporate an optional Income Tax Unit to better prepare our students for tax season. Please visit the following link for more information about Business Education: <http://vimeo.com/88067215>

ACCOUNTING 30 – one credit**Prerequisite: none**

It is recommended that students take Accounting 20 before taking this course. This course is designed to review basic accounting concepts, principles and practices with a more advanced treatment of accounting theories and practices. Emphasis is on preparing financial statements for large corporations with shareholders. Statements are analyzed for the purposes of making managerial operating and capital investment decisions. Learning activities in all three accounting courses are directed toward developing the students' knowledge and skills for the workforce and/or college accounting classes. The majority of the work is done on computers using a program called "Aplia" which allows students to get instant feedback. We will also incorporate an optional Income Tax Unit to better prepare our students for tax season. Please visit the following link for more information about Business Education: <http://vimeo.com/88067215>

COMMUNICATION MEDIA 10 – one credit**Prerequisite: none**

This is an introductory class studying multimedia and graphic design, audio and video production and animation creation. Students will develop skills in software including Adobe Photoshop, Animate, iMovie and Garageband.

COMMUNICATION MEDIA 20 – one credit**Prerequisite: none**

This course expands upon the Communication Media 10 course. Students will further develop skills in multimedia and graphic design, audio and video production and interactive animation creation. Students will develop skills in software including Adobe Photoshop, Animate, Premier, After Effects, and LogicPro.

COMMUNICATION MEDIA 30 – one credit**Prerequisite: none**

Communication Media 30 expands upon the Communications Media 10 and Communications Media 20 courses at a high level while engaging students in major projects that may focus on graphic design, audio, video, or multimedia production or a combination of these. Students will direct their own project development and productions based on their individual interests, skills and abilities.

EMERGENCY SERVICES 20 & 30 – two credits**Prerequisite: none**

The primary goal of the Emergency Services course is to expose students to Canadian service providers: Firefighting, Police, Search and Rescue, and EMS. Students will study the latest theory and participate in multiple hands-on experiences in Firefighting, Police Sciences, EMS, and Search and Rescue. Students will also be given the opportunity to network with experts in their respected fields through guest speakers and field trips in and around Regina. Upon successful completion of this course, students will be eligible to receive a number of certifications that will add to their resumes when applying for future careers: CPR C (Red Cross), Basic Life Support (Red Cross), First Responder (Red Cross), Incident Command 100, Fire Extinguishers and Ladders. This is an excellent course to take if you are interested in a career in Emergency Services or Health Science Fields.

ENERGY & MINES 20 & 30 – two credits**Prerequisite: none**

This is a two-credit course designed to introduce students to mining and energy production in Saskatchewan. Key units students will explore are Geography, Geology, Environmental Sustainability, Oil and Gas and Potash. This course provides students with various technical

certifications required on job sites today: ex. First Aid, SCBA, Fire Extinguishers. In preparation for the work force, students will also be given the opportunity to network with experts in their respected fields through guest speakers and field trips in and around Regina. This is an excellent course to take if you are interested in working in the trades, networking with major companies, or are keen to increase your certifications for future career opportunities.

ENTREPRENEURSHIP 30 – one credit

Prerequisite: none

The goal of Entrepreneurship 30 is to introduce students to the world of business. The course will help students identify entrepreneurship as a future career option. Entrepreneurship 30 will focus on business structure, financing, franchising, home-based business, fads, trends, current market opportunities, advertising/marketing, capital markets, investing, accounting, risk assessment and how to write a business plan. Students will create their own Venture by developing an idea. They will take that concept from inception to completion throughout the semester.

FINANCIAL LITERACY 20 – one credit

Prerequisite: none

Financial Literacy 20 focuses on seven areas: earning, saving, spending, borrowing, sharing, investing and protecting. The course is an introduction to financial issues and decisions that students may already be facing and addresses topics such as the budgeting fundamentals, the importance of decision-making as it applies to finances, scams, borrowing as it pertains to education and the importance of saving in order to invest.

FINANCIAL LITERACY 30 – one credit

Prerequisite: none

Financial Literacy 30 focuses on seven areas: earning, saving, spending, borrowing, sharing, investing and protecting. The course addresses more complex financial issues and decisions that students may already be facing while highlighting others they are likely to face within the first few years of graduating high school. It touches upon more complex issues such as banking awareness, insurance, income tax, importance of tracking accurate information, home ownership, renting, debt management, investing and retirement planning, which are part of a lifelong financial journey.

FOOD STUDIES 10 – one credit

Prerequisite: none

The Food Studies 10 course develops an understanding of food, cooking techniques, and nutrition principles. The course begins with the students learning food safety. As students move through the course, they will learn kitchen safety as it pertains to each recipe and will develop the skills to cook a wide variety of food. The course begins with learning a variety baking skills and working with vegetables and ends with the development and creation of a meal. In addition to learning about food, nutrition, and a wide variety of cooking techniques, this course provides the students with the opportunity to develop self-confidence, independence, and positive social skills.

FOOD STUDIES 30 – one credit

Prerequisite: none

The Food Studies 30 course is designed to expand the students' knowledge of food preparation and nutrition principles, while learning about the ethics of food. The students will cook a variety of recipes while learning about food safety, food security, locally produced foods, and developments in nutrition. The students will be taught practical cooking skills such as cooking without a recipe and how to part a chicken. An emphasis is placed on the ability to be creative with food presentation. The course is designed to increase the students' skills to be resourceful in the kitchen and to help students to develop self-reliance and independence while cooking.

PRACTICAL AND APPLIED ARTS SURVEY B10

Applied Technologies – Industrial Arts – **one credit**

Prerequisite: None

Industrial Arts Courses feature hands-on classes immersing the students in practical work, lifelong skill development, safety and the knowledge required for proper use of shop tools. PAA B10 is an INTRODUCTORY level Industrial Arts course, which will help students develop necessary skills in the following areas: Introductory Woodworking (Woodworking Basics), Introductory Metal Fabrication (Welding), and Introductory Design (Design Basics, Structural Design).

PRACTICAL AND APPLIED ARTS SURVEY B20

Applied Technologies - Industrial Arts – **one credit**

Prerequisite: none

It is suggested that students take PAA 20 before taking this course. PAA B20 is an INTERMEDIATE level Industrial Arts course that further develops the skills obtained in PAA B10 with the addition of intermediate technical skills, larger/more complex projects, personal/team time management skills and an emphasis on trade-based teamwork. Students will rotate through the following three modules: Intermediate Woodworking, Introductory Welding, and Intermediate Design (Silk Screening, 3D Printing, Drafting, AutoCAD)

PRACTICAL AND APPLIED ARTS SURVEY B30

Applied Technologies - Industrial Arts – **one credit**

Prerequisite: None

It is suggested that students take PAA 20 before taking this course. PAA B30 is an ADVANCED Industrial Arts course, which further develops the skills obtained in PAA B20 with the addition of enhanced technical skills, larger/more complex projects, personal/team time management skills, and an emphasis on trade-based teamwork. Students will rotate through the following three modules: Advanced Woodworking, Advanced Welding, and Residential Electrical.

PHOTOGRAPHY 10 – one credit

Prerequisite: none

This course introduces students to photography. Students will develop technical skills in the use of cameras including the photographic triangle, and will analyze and utilize the principles of composition and design. Students will use a photo editing software to develop image manipulation skills to create aesthetically satisfying pictures.

PHOTOGRAPHY 20 – one credit

Prerequisite: none

This course builds on skills developed in Photography 10. Students will develop advanced technical skills in the use of cameras including aperture, shutter speed, ISO and white balance. Students will analyze and utilize the principles of composition and design in creating aesthetically pleasing photography. Students will further develop their software skills for photo editing.

SPECIAL PROJECT

SPECIAL PROJECT 20/30

Special Project Credits recognize student achievement in areas outside of the regular secondary level program. Only one Special Project Credit may be earned in secondary school at the 20 or 30 level. The project is carried out on a contracted learning basis under the supervision of a teacher. There are guidelines and a form that can be obtained from the school's Principal. Students are required to submit a clearly planned proposal to the Principal for approval in advance of beginning the project. The written proposal then must be approved by the school administration and the designated superintendent. Some examples of special projects include student involvement in activities such as Cadet Officer Training and Royal Conservatory of Music.

VOCAL JAZZ



VOCAL JAZZ 10L, 20L, and 30L – one credit each

Prerequisite: Must be enrolled in Choral

Vocal Jazz is an extension of the choral program; therefore, enrolment in choral is also required. Students should have a basic knowledge of reading notated music. The class focuses on jazz repertoire including swing, ballad, Latin, and blues. Students examine the techniques used by various musicians who have made outstanding contributions to jazz, and apply these techniques to their own vocal jazz training. They also work in small groups for a Coffeehouse performance.