

# **MICHAEL A. RIFFEL CATHOLIC HIGH SCHOOL**

## **PROGRAM OF STUDIES**

**GRADES 10, 11, 12**



**2016 - 2017**

## 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 grade twelve graduation requirements. Please research these requirements when planning your course selections. While many students state they do not “need” courses, the reality is that a large number of 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 have the opportunity to earn a credit or advanced placement in first year university courses depending on their AP results.

### AP Course Offerings at Riffel

**AP Calculus** – In preparation for challenging the AP Calculus AB exam in Grade 12 it is recommended that students enrol in the designated Mathematics classes at Grades 9, 10 and 11. Students should have a strong math background, and should have a keen interest in mathematics and advanced problem solving.

**AP English Literature & Composition** – In preparation for challenging the AP English Literature and Composition exam in Grade 12, it is recommended that students enrol in the designated English Language Arts classes in Grades 9, 10 and 11. In addition to completing the English Language Arts A30 and B30 requirements in Grade 12, enrichment is provided through in-depth reading, writing, research and discussion to assist students in preparing for the AP exam. Students also receive a summer reading list to be completed prior to Grade 12.

**AP Psychology** – In preparation for challenging the AP Psychology exam, it is recommended that students enrol in Psychology 20 in the first semester and Psychology 30 AP in the second semester of the year in which they plan to challenge the AP Psychology exam. In this course, students will engage in the systematic and scientific study of the behaviour and mental processes of human beings. Students will learn psychological theories, methods and principles associated with the major subfields of psychology. This course requires a significant amount of independent study.

**AP Studio Art** – This course is intended for highly motivated students who are prepared to spend significantly more time than they do in the typical Art 30 course. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation in May. The Studio Art course focuses on a sense of quality in a student’s work, concentration on a specific visual interest or problem; and the student’s need for breadth of experience in the formal, technical and expressive

means of the artist. The AP Studio Art Program consists of three portfolios – 2-D Design, 3-D Design and Drawing. Regardless of which of the three portfolios a student chooses to complete, he/she is required to demonstrate a depth of investigation and process of discovery through the Concentration section. In the Breadth section the student is asked to demonstrate proficiency in visual principles and material techniques. In the Quality section students select the works that best exhibit a synthesis of form, technique and content. In preparation for completing the demands of the AP Studio Art portfolios in Grade 12, it is recommended that students enrol in the designated visual art classes in Grades 10 and 11.

### **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.

### **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 Calculus Pathway for the Regina Catholic School Division**

- \* We offer a preparation approach beginning at the grade 9 level for ELA 30AP and Calculus 30AP and we encourage students to enrol in the classes listed below to support their success at the grade 12 level.

### **Suggested AP Calculus Pathway:**

<b>Grade</b>	<b>Semester 1</b>	<b>Semester 2</b>
<b>9</b>	Math 9*	Math 9*
<b>10</b>	Foundations and Pre-Cal 10*	Foundations 20*
<b>11</b>	Pre-Cal 20*	Pre-Cal 30*
<b>12</b>	Calculus 30AP and Integral Calculus 30	Calculus 30AP and Integral Calculus 30

### **Suggested AP English Language Arts Pathway:**

<b>Grade</b>	<b>Semester 1</b>	<b>Semester 2</b>
<b>9</b>	ELA A9*	ELA B9*
<b>10</b>	ELA A10Advanced	ELA B10Advanced
<b>11</b>	Creative Writing 20	ELA 20Advanced
<b>12</b>	ELA B30AP	ELA A30AP

## 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 Christian Ethics at the current grade level and are not required to take earlier Ethics 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 Ethics at grade levels above their own. Only Grade 12's may take Native Studies 30 or Social Studies 30.
- RCS does offer online learning ([www.rcsd.ca/learningonline](http://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.

## THE CREDIT SYSTEM

Secondary education (Grades 10, 11, 12) operates on a credit system. Generally speaking, 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)
<p><b>Compulsory courses are:</b></p> <p>English Language Arts A 10 and English Language Arts B 10;</p> <p>History 10 or Native Studies 10;</p> <p>Science 10;</p> <p>Mathematics 10;</p> <p>Christian Ethics 10;</p> <p>4 electives at level 10 or higher.</p>	<p><b>Compulsory courses are:</b></p> <p>English Language Arts 20;</p> <p>Mathematics 20;</p> <p>Christian Ethics 20;</p> <p>6 additional elective credits at level 20 or 30.</p>	<p><b>Compulsory courses are:</b></p> <p>English Language Arts A 30 and English Language Arts B 30;</p> <p>Social Studies 30; Canadian Studies or Native Studies 30: Canadian Studies;</p> <p>Christian Ethics 30</p> <p>A science 20 or 30;</p> <p>A social science 20 or 30;</p> <p>2 credits in arts education or practical and applied arts at level 10, 20, or 30;</p> <p>2 Christian Ethics classes meet the requirements for 2 P.A.A.;</p> <p>Wellness 10, Physical Education 20 or Physical Education 30.</p>

## PREREQUISITE REQUIREMENTS 2016-2017 SCHOOL YEAR

GRADE 9	GRADE 10	GRADES 11 and 12		
	Accounting 10	Accounting 20	Accounting 30	
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 Media Studies 20		
French 9	French 10	French 20	French 30	
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 20/30 OR	Math Foundations 30 OR	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 recommended 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		Canadian Studies Native Studies 30 OR Canadian Studies Social Studies 30	
		Visual Art 20 L	Studio Art 30 L	
		Visual Art 20	Visual Art 30 AP	
	Communications Media 10	Communications Media 20	Communications Media 30	

**No prerequisite requirements exist for the following courses:**

Art 10, 20, 30	Food Studies 10, 30	Photography 10, 20
Band 10, 20, 30	History 20	Psychology 20, 30
Choral 10, 20, 30	Law 30	Sports Medicine 20
Communications Media 10	Music 10, 20, 30	Wellness 10
Drama 10, 20, 30	PAA 10, 20, 30	Visual Art 10, 20, 30
Emergency Services 20/30	PAA Survey B20-Publication & Design	
Energy & Mining 20/30	Personal Finance 30	
Entrepreneurship 30	Physical Education 20, 30	

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.

# CHRISTIAN ETHICS

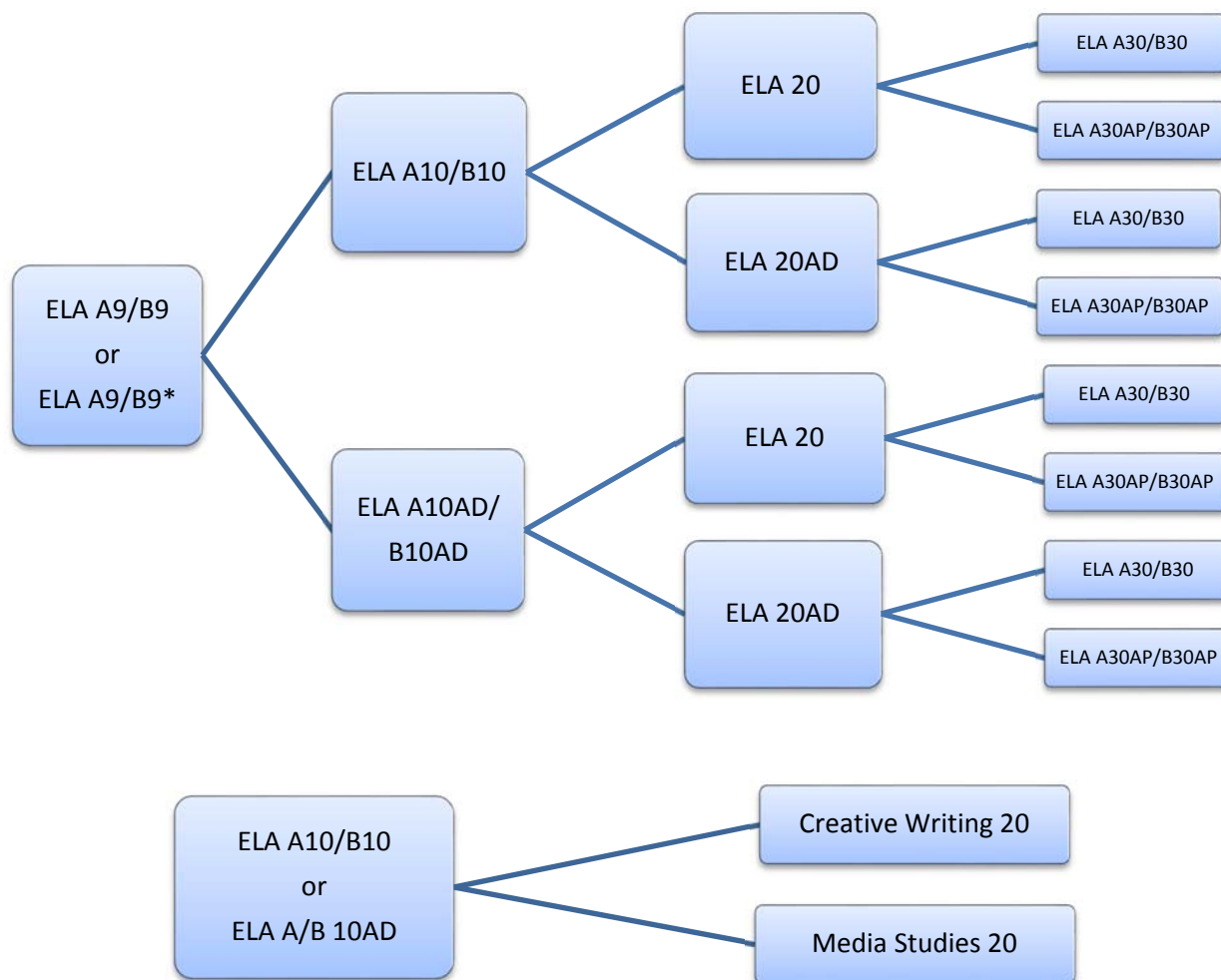
Christian Ethics 9

Christian Ethics 10

Christian Ethics 20

Christian Ethics 30

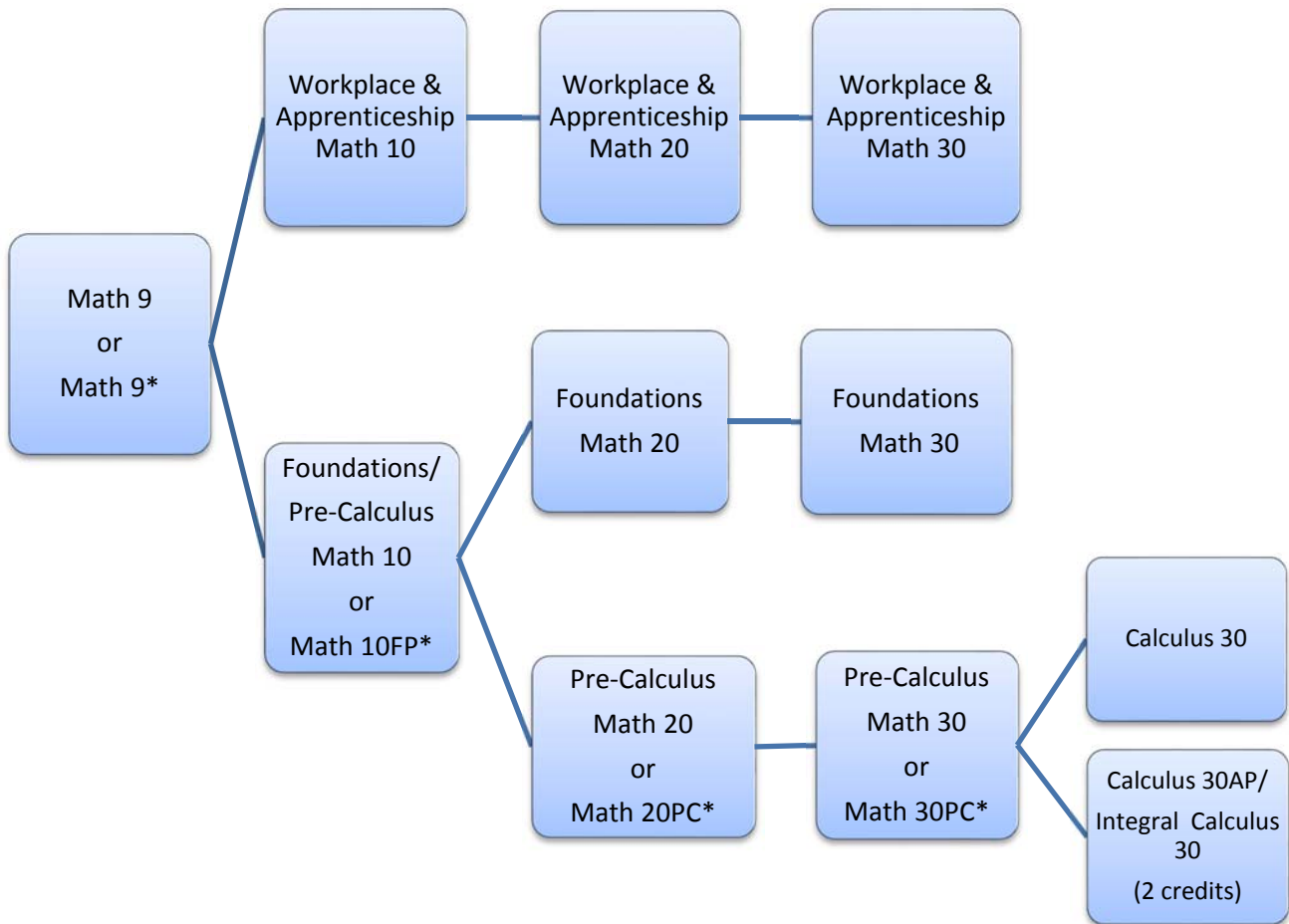
# ENGLISH LANGUAGE ARTS



## CORE FRENCH

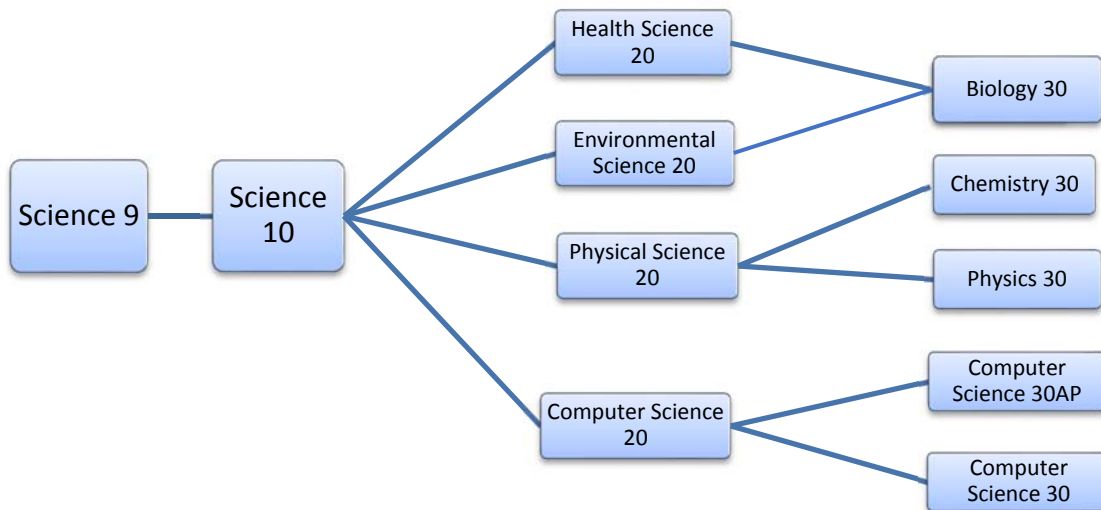


## MATHEMATICS

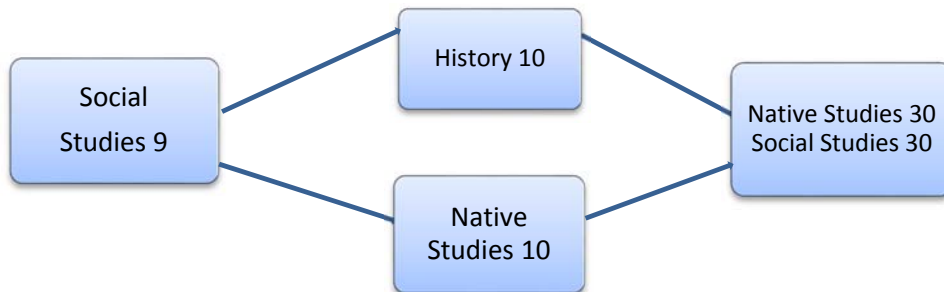


All ELA and math options with an \* are pre-AP courses that are recommended for students considering 30- level AP courses for ELA and/or calculus

## SCIENCE

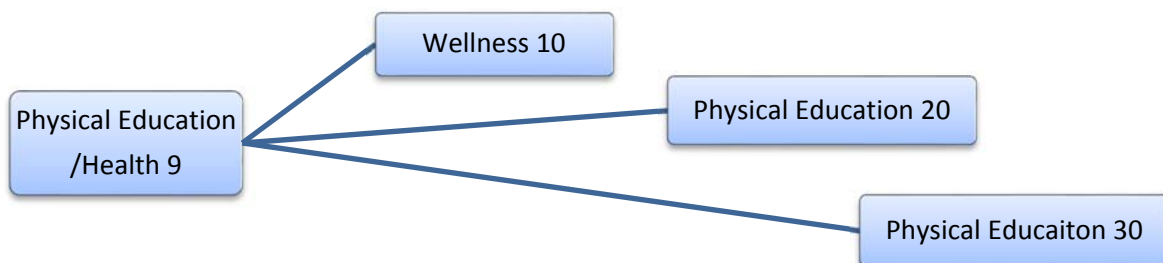


## SOCIAL SCIENCES



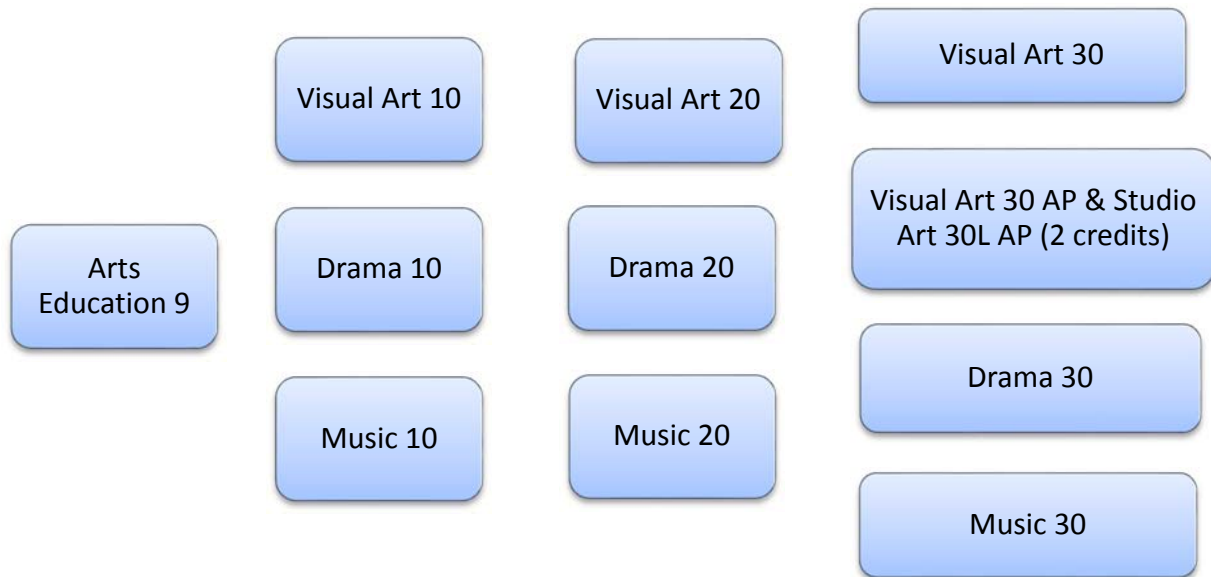
History 20, Psychology 20, Psychology 30, Psychology 30AP, Law 30  
(one social science credit from this grouping is required for graduation)

## PHYSICAL EDUCATION

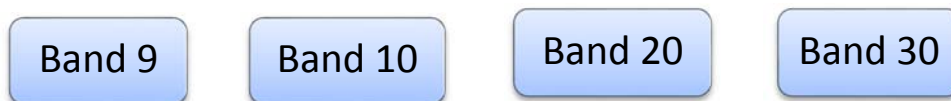




## **FINE ARTS**



## **BAND**



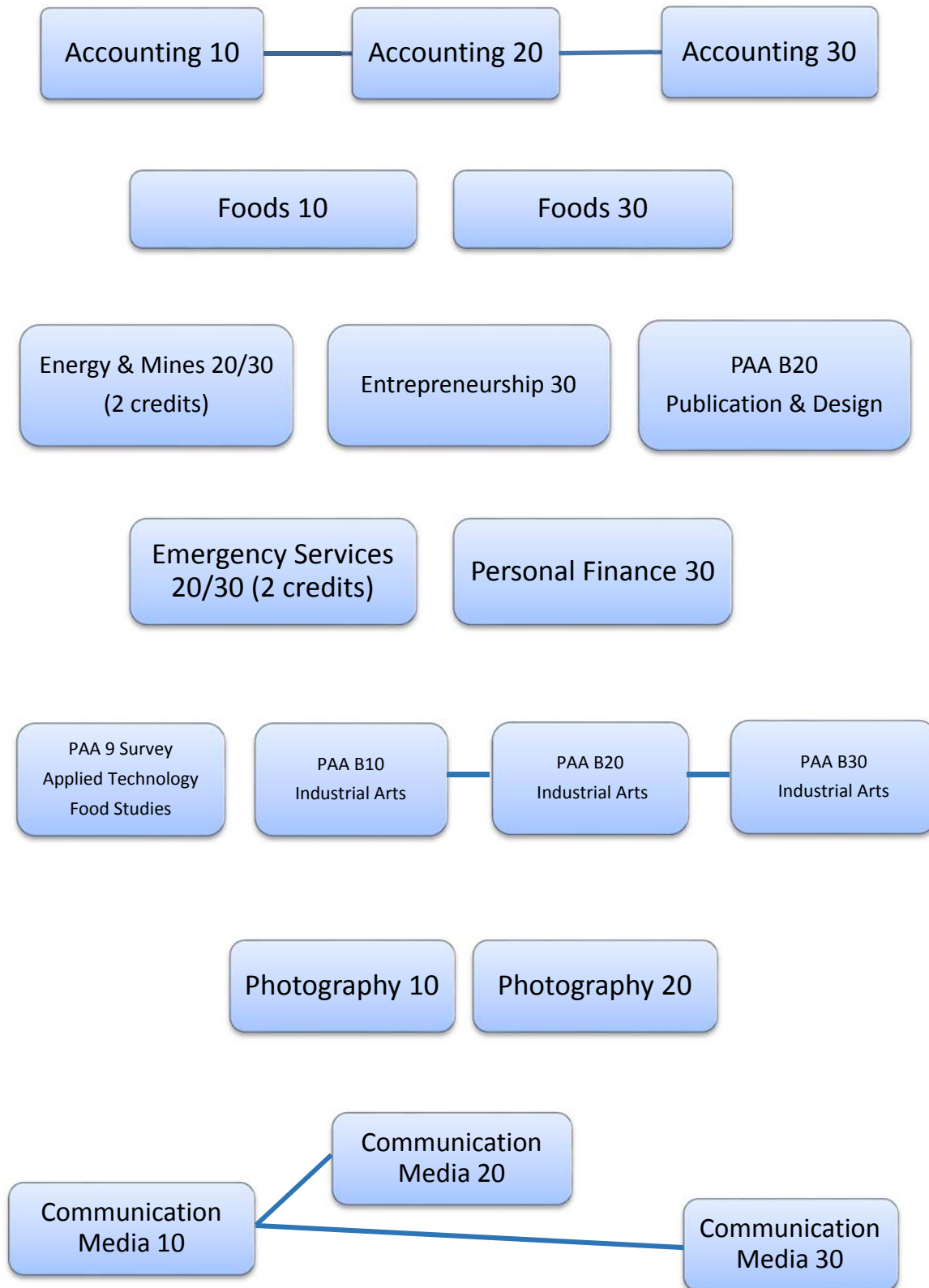
## **CHORAL**



## **VOCAL JAZZ**



# PRACTICAL AND APPLIED ARTS



## SECONDARY COURSE DESCRIPTIONS

### **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: Accounting 10**

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, uncollectable accounts, and end-of-period financial statements for a partnership. 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: Accounting 20**

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>

### **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 Art 10 will encounter a program similar to that described in 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.

**STUDIO ART 20L – one credit****Prerequisite: Visual Art 20**

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 depth and breadth 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: Visual Art 20**

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 complete the “breadth” section of the AP portfolio and begin the concentration section of the AP exam. Students draw, paint, and do printmaking in relation to several topics. Emphasis is on development of individual style and content. **AP Art students must register for both AP Studio Art and AP Portfolio.**

**VISUAL ART 30 AP – one credit****Prerequisite: Visual Art 20**

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.

**VISUAL ART 30 – one credit****Prerequisite: none**

The 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 AP, he/she is not eligible for this class.

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

This class runs all year. Preparation and performance of various musical styles allows students to learn musical concepts and develop technical skills on an instrument. In addition to full band rehearsals, students develop solo and ensemble skills and study musical theory. Students perform at school functions, public concerts, and festivals.

**BIOLOGY 30 – one credit****Prerequisite: Health Science 20 recommended or Environment 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, student explore oxidation-reduction reactions and the impact of electrochemistry on society and the environment. Other topics include organic compounds and acid-base chemistry.

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

Choral is a curricular class combining friendship, teamwork, singing, and performance. Students will be learning singing basics and musical theory. Throughout the year they participate in events such as Christmas concerts and music festivals. The choir takes a yearly tour, performing their spring show and visiting local sites. This class spans the entire school year and is a popular choice for many students.

**CHRISTIAN ETHICS 10 – one credit****Prerequisite: Christian Ethics 9**

The course content includes the history, creed, models and sacraments of the Church. Through class readings, discussions, and activities, students are encouraged to examine what kind of people they are becoming. Students are taught a process of moral decision-making based on the life and teachings of Jesus as the example of what it means to be fully human.

**CHRISTIAN ETHICS 20 – one credit****Prerequisite: Christian Ethics 10**

This course helps students achieve an understanding of Scripture that can help us integrate and direct our lives. First, the course develops skills for Biblical interpretation to see how Scripture tells a story that gives meaning to human existence. Later, the course focuses on the person and message of Christ in the gospels to help students make sense of their lives.

**CHRISTIAN ETHICS 30 – one credit****Prerequisite: Christian Ethics 20**

The course focuses on how the Christian message guides our search for self-understanding. Students discover how Christianity gives meaning to life, death, and beliefs as they gain understanding about the importance of relationships (with God, self and others) and commitments from a Christian perspective. Also, students will be introduced to the contributions of various world religions and spiritualities.

**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, Flash, Dreamweaver, iMovie and Garageband.

**COMMUNICATION MEDIA 20 – one credit****Prerequisite: Communications Media 10**

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, Flash, Dreamweaver, iMovie and Garageband, LogicPro and FinalCut Pro.

**COMMUNICATION MEDIA 30 – one credit****Prerequisite: Communication Media 20**

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 audio, video, or multimedia production or a combination of these. Students will direct their own project development and productions.

**COMPUTER SCIENCE 20/30 (with AP option) – two credits    Prerequisite: Science 10/Math 10 FP**

The purpose of this program is to challenge students and to promote higher level thinking while developing a foundation of computer programming using the Java language. Computer programming promotes and develops a high level of problem solving skills. These problem solving skills benefit students in all academic classes and in all aspects of life; allowing them to be active in their own learning. This course will allow students the opportunity to receive credits for CS 20, CS 30 and to write the Computer Science 30 Advanced Placement May exam if they so desire.

This is a full year (2 semester) course in computer programming. The first semester begins with a history of computers and computer programming as well as the binary and hexadecimal number systems. Java will be used to introduce the concepts of computer programming. Concepts students could expect to cover in the first semester include variables, decision statements and loops, methods, and arrays. There will also be enhancements to the course of study with the goal of preparing the student for the AP 30 level exam to be written in May (if a student chooses to do so). A comprehensive final will be written at the end of January which will test the students on the CS 20 curriculum. Upon successful completion of the curriculum, the student will receive a credit for CS 20.

Second semester, students will expand on concepts taught in the first semester. They will review previous concepts as well as be introduced to classes, arraylists, polymorphism/inheritance, error handling, and recursion. The goal is to prepare the students to complete the CS 30 curriculum and to successfully challenge the CS 30 AP exam in early May.

After the May AP Exam, for the remainder of the course students will be introduced to another computer language, gain a basic understanding of robotics, and cover other independent study topics.

As in semester one, a comprehensive final exam will be written at the end of the semester, and upon successful completion of the curriculum, students will receive a CS 30 credit.

A strong background in Math is recommended for success.

**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.

**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.

**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 the history of drama is included. Through the course, students develop self-confidence and a respect for others.

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

The primary goal of the Emergency Responders course is to expose students to the emergency services offered here in Canada. Students will study the latest theory and participate in multiple hands on experiences in firefighting, police sciences, paramedicine, search and rescue and communications. Students will also be given the opportunity to network with experts in their respected fields through guest speakers and multiple field trips in and around Regina. Upon successful completion of this course, students will be eligible to receive a number of tickets (WHMIS, First Aid - Health Care Provider, Firefighting and Incident Command 100) which will greatly advance their resume when applying for future careers. This is an excellent course to take if you are interested in Emergency Services or Health Sciences.

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

This is a two credit course (back to back classes) 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 nine technical certifications that are required on job sites today: Ready for Work, WHMIS, Standard First Aid & CPR Level C (Red Cross), PPE, SCBA, ABC's of Fall Protection, Confined Space Awareness, Respiratory Protection and Fire Extinguishers. Students participate in three field trips (TransGas, Burn Yard (Live Fire Extinguisher Training) and PotashCorp Rocanville (above and underground facilities). In preparation for the work force, students are interviewed by the Human Resources Departments of major companies such as PotashCorp, Mosaic and TransGas. In summary, 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.

**ENGLISH LANGUAGE ARTS A10 – one credit****Prerequisite: ELA 9**

This course is neither a prerequisite for, nor a follow-up to English Language Arts 10B. 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 course focus remain the same as ELAA10 (see above); however, literature selections number of assignments, and types of assignments will vary.

**ENGLISH LANGUAGE ARTS B10 – one credit****Prerequisite: ELA 9**

This course is neither a prerequisite for, nor a follow-up to English Language Arts A10. 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 A 30/B30 Advanced Placement class. The course themes and course 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 & ELAB10**

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. Reading comprehension, vocabulary, sentence structure and variety, and essay writing are developed from the literature program, without losing sight of the goal of literature for enjoyment and appreciation. 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.

**ENGLISH LANGUAGE ARTS 20 Advanced – one credit****Prerequisite: ELA10 & ELAB10**

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 ELA20 (see above), however, literature selections, number of assignments and types of assignments will vary.

**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 stands 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 Search for Self and The Social Experience employ a variety of literary forms from across the world.

**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.

**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.

**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.

**FOOD STUDIES 10 – one credit****Prerequisite: none**

The food studies curriculum develops an understanding of food and nutrition principles. It also focuses on the development of self-reliance, independence, and positive social skills and teaches practical food preparation skills. Students are made aware of proper handling of food during preparation to ensure safety and sanitation.

**FOOD STUDIES 30 – one credit****Prerequisite: none**

Food Studies 30 continues to develop knowledge and understanding of basic food preparation and nutrition principles. It is designed to increase resourcefulness to help students to develop self-reliance and independence. This course combines academic and practical foods experiences. It also emphasizes preparation of food to be creative. Students are made aware of proper handling of food during preparation to ensure safety and sanitation.

**FRENCH 10 – one credit****Prerequisite: French 9**

This program uses the communicative/experiential approach to learning French. Students, exposed to various activities, will be encouraged to speak, read and write extensively.

**FRENCH 20 – one credit****Prerequisite: French 10**

The French 20 program increases the student's vocabulary and understanding of the French language through use of the communicative/experiential learning approach. Much student interaction will be encouraged, with theme projects used as final tasks.

**FRENCH 30 – one credit****Prerequisite: French 20**

This course draws on previous Core French classes. A variety of themes encourage use of the language.

**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 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.

**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: History 10 or Native Studies 10**

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**

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.

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

This course is a pre-requisite for both the Foundations Math and the Pre-Calculus Math in Grade 11. It introduces and/or 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 (\*Pre-AP) – one credit** **Prerequisite: Math 9**

This course has the same curriculum as the non-Pre-AP course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Pre-AP courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus.

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

This course is a pre-requisite for **Math 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 FOUNDATIONS – one credit****Prerequisite: Math 10 Foundations and Pre-Calculus**

This course is a pre-requisite for **Math 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. The majority of programs at SIAST and faculties in both Saskatchewan universities accept this course.

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

This course has the same curriculum as the non-Pre-AP course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Pre-AP courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus.

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

This course is a pre-requisite for **Math 30 Pre-Calculus** in Grade 12. It introduces and/or 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. Students in this course should be planning to take Calculus in Grade 12.

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

This course has the same curriculum as the non-Pre-AP course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Pre-AP courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus.

**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 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 (\*Pre-AP) – one credit****Prerequisite: Math 20 Pre-Calculus**

This course has the same curriculum as the non-Pre-AP course, but is geared towards students who have a keen interest in mathematics and would like an additional challenge. Pre-AP courses are intended to provide extra rigor and prepare students who are considering taking AP Calculus.

**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- two credits****Prerequisite: Math 30 Pre-Calculus 30**

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.

**\*There may be situations where the number of students interested in registering for this two-credit program may exceed its maximum size. In these situations, we may utilize the Final Course Assessment results from Math 10F/P, Math 20 Pre-Calculus, and Math 30 Pre-Calculus to determine final student enrollment for the program.**

### **MATH 30 WORKPLACE & APPRENTICESHIP – one credit**

**Prerequisite: Math 20 Workplace & Apprenticeship**

This pathway continues the focus of its two prerequisites on very “real world” math, 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 SIAST programs and/or work in the Trades. This math may be used for entrance into Fine Arts, Arts, Social Work and some Faculty of Education programs at the University of Regina.

### **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.

### **MEDIA STUDIES 20 – one credit**

**Prerequisite: ELAA10 AND ELAB10**

There are four modules that will be covered in the course. These four modules are Media Awareness, Exploring Television, Advertising, and the Study of Media and culture. You are influenced by Media more than you know. Become an aware consumer of media by taking this course.

### **MUSIC 10 – one credit**

**Prerequisite: none**

This course is designed to review the fundamentals of music and provide an opportunity for students to learn how to play an instrument of their choice. Students will work individually on “The Essentials of Music Theory” computer program which covers basic theory concepts. We will also examine the history of music from the Renaissance to the present.

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

This class further develops the study of music fundamentals. Students are given the opportunity to learn how to play an instrument of their choice or master the skills they already have on an instrument. The course takes an in-depth look at various musical styles (rock, pop, country, classical, etc.) and looks at the various career opportunities in the music industry.

**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 Aboriginal peoples. Through the study of First Nation, Métis, and Inuit history and culture, students will better appreciate the contributions made by Aboriginal 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 Aboriginal 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.

**PERSONAL FINANCE 30 – one credit****Prerequisite: none**

The aim of Personal Finance 30 is to provide students with basic skills of financial literacy, to develop an awareness and understanding of personal finance and personal economic decision making, and to respond to business decisions as informed consumers. Some areas that will be covered are economics of personal finance, decision making and money basics, banking services, income and taxation, budgeting, savings and investing, credit and credit cards, consumer protection and renting, leasing and buying. See attached video regarding the benefits of this class created by Saskatchewan Business Teachers' Association - <https://vimeo.com/88067215>.

**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.

**PHYSICAL EDUCATION 20 – one credit****Prerequisite: none**

Students experience many leisure activities and recreational facilities in Regina to develop personal skills and the understanding of techniques, skills, and rules. Instructional areas may include aquatics, cycling, rock climbing, racquetball, squash, golf, bowling, tennis, football, softball, and winter activities, as well as team sports and recreational games played in our gym. During the

semester, students focus on personal fitness and its importance in everyday life. Classes are divided by sex (male-only; female-only). Fee.

**PHYSICAL EDUCATION 30 – one credit**

**Prerequisite: none**

Students are exposed to leisure-time activities that stress the importance of leading a healthy, active lifestyle as an adult. Our focus is to experience new leisure activities as well as renew knowledge of previously-learned sports. Some leisure activities in which we participate are cycling, rock climbing, golf, squash, aquatics, aerobics, 10-pin bowling, and traditional team sports and recreational games. We include the challenge of working towards a positive fitness level. Classes are divided by sex (male-only; female-only). Fee.

**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 enable 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.

**PRACTICAL AND APPLIED ARTS SURVEY B10**

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

**Prerequisite: none**

Industrial Arts is a hands-on area which focuses on practical work, lifelong skill development and the safety knowledge required for proper use of shop tools. This is an INTRODUCTORY Industrial Arts course which will help the students develop basic skills in the following areas: Introductory Woodworking, Introductory Metal Fabrication with Introductory Gas Welding (Sheet Metal and Oxy-Acetylene Gas Welding) as well as Introductory Design (Structural Design, Drafting Basics, AutoCAD Drafting).

**PRACTICAL AND APPLIED ARTS SURVEY B20**

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

**Prerequisite: P.A.A. B10**

This is an INTERMEDIATE Industrial Arts course which 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 ARC/MIG Welding with Intermediate Metal Fabrication as well as Intermediate Design (Silk Screening and Structural Design).

## **PRACTICAL AND APPLIED ARTS SURVEY B30**

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

**Prerequisite: PRACTICAL AND APPLIED ARTS SURVEY B10-Applied Technologies - Industrial Arts**

This is an ADVANCED Industrial Arts course which further develops the skills obtain 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 (“Build Your Own 2 X 4 Project), Advanced ARC/MIG Welding with Advanced Metal Fabrication as well as Residential Electrical (based on Introductory Residential wiring projects).

## **PRACTICAL AND APPLIED ARTS SURVEY B20**

**Publication and Design – one credit**

**Prerequisite: none**

This survey course utilizes modules from Information Processing, Design Studies, and Graphic Arts. Using Adobe Photoshop and InDesign, the students will be shown how to create everything from brochures, to magazine layouts. The design and layout of the school yearbook will be a large portion of this class.

## **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. (Not recommended for Grade 10 students)

## **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. (Not recommended for students younger than Grade 12).

## **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. It is recommended that students have a minimum 75% average prior to enrolment in this course.

## **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 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.

### **SPECIAL PROJECT 20/30 – one credit**

**Prerequisite: none**

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.

### **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, he/she is NOT eligible for this course.

### **Trades & Skills Construction Apprenticeship Program (TASCAP)**

This program will engage Grade 11 and 12 learners in the residential home-building industry. Students work with a qualified instructor in all aspects of the construction trades, working from the foundation up. Upon successful completion of the course, students receive five high school credits, post-secondary recognition, apprenticeship hours, and potential summer or full-time employment. The program runs for the entire semester on a full-time basis (off campus).

**\*If a student is interested in this off-campus program, he/she must see a counsellor in order to register.**

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

**Prerequisite: Must be enrolled in Choral or Band**

Vocal Jazz is a class that is an extension of the choral program therefore students must be enrolled in choral as well. Students should be able to read music. The class focuses on jazz repertoire. 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. Interested students must meet with Mr. Hicks.

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

Students come to understand and appreciate components of wellness: physical activity, the development of and participation in sport skills, physical fitness, stress management, healthy eating, leisure and relationships. We study bowling, broomball, golf, racquetball, tennis, skating, cycling and many in-school sports. Wellness 10 recognizes the need for the development of the entire individual (body, mind, and spirit). Classes are divided by gender (male-only; female-only).