



A School You Can Believe In

# **VANIER COLLEGIATE**

## **Course Selection Guide**

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**VANIER COLLEGIATE: A Community of Kindness Where Everyone in a Common Effort Models and Promotes Growth in Learning, Christian Values and Personal Excellence.**

<b>TABLE OF CONTENTS</b>
--------------------------

**GRADE 9 COURSE DESCRIPTIONS.....3**

    A. ENGLISH PROGRAM.....3

    B. ELECTIVE COURSES.....4

    C. FRENCH IMMERSION PROGRAM.....5

**GRADE 10, 11, AND 12 COURSE DESCRIPTIONS.....6**

    A. ARTS EDUCATION.....6

    B. CHRISTIAN ETHICS.....7

    C. ENGLISH LANGUAGE ARTS.....8

    D. FRENCH IMMERSION.....9

    E. MATHEMATICS.....11

    F. PHYSICAL EDUCATION.....14

    G. PRACTICAL AND APPLIED ARTS.....14

    H. SCIENCES.....16

    I. SOCIAL SCIENCES.....18

    J. MODIFIED COURSES.....20

    K. EXTRA CREDIT OPTIONS.....21

    L. GRAD CREDIT CHECKLIST.....22

**Regular Program - 24 Credit Policy (See pg. 23)**

<b><u>Grade 10</u></b>	<b><u>Grade 11</u></b>	<b><u>Grade 12</u></b>
minimum 8 credits	minimum 16 credits	minimum 24 credits (5 of which must be at the 30 level)
<b>compulsory courses:</b>	<b>compulsory courses:</b>	<b>compulsory courses:</b>
English Language Arts A 10 and English Language Arts B 10;	English Language Arts 20;	English Language Arts A 30 and English Language Arts B 30;
Social Studies 10, History 10	A math at the 20 level;	Social Studies 30: Canadian Studies or History 30: Canadian Studies
Science 10;	6 additional elective credits at level 20 or 30	a science 20 or 30;
A math at the 10 level;		a social science 20 or 30;
3 electives at level 10 or higher		2 credits in arts education, <b>ethics*</b> or practical and applied arts at level 10, 20, or 30;
		Wellness 10, Physical Education 20 or Physical Education 30

## GRADE 9 COURSE DESCRIPTIONS

### REQUIRED COURSES

#### *A. ENGLISH PROGRAM*

##### **Catholic Wellness 90**

The purpose of this course is to help young people understand the key components of our faith with the Scriptures as a backdrop. The students will study the stories of Salvation History from Adam and Eve through Abraham, Moses, Joseph and the prophets to the coming of the messiah Jesus Christ and His teachings. We will closely examine the Beatitudes, social justice issues and other teachings of the Bible to invite the students to deepen their faith and explore their relationship with God.

##### **English A90**

Students will learn about the English language and its conventions (usage, formats, sentence structure, vocabulary, spelling, punctuation) as they listen, speak, read, write, view and represent and study texts (including short stories, essays, scripts, poetry, novels and full-length non-fiction) associated with three units of study: All That I Am – The Search for Self; Indigenous and Norse Narratives and Conflicts, Issues and Choices – Doing the Right Thing.

##### **English B90**

Students will extend their knowledge about the English language and its conventions (usage, formats, sentence structure, vocabulary, spelling, punctuation) as they listen, speak, read, write, view and represent and study texts (including short stories, essays, a Shakespearean play, poetry, novels and full-length non-fiction) associated with three units of study: Exploring Love, Loyalty and Relationships; Surviving and Conquering and Looking Beyond – Imagining New Worlds and the Future.

##### **Mathematics 90 (Math 99\*)**

This is a year-long course that deals with square roots, surface area, exponents, rational numbers, linear relations, polynomials, linear equations and inequalities, similarity, transformations, circles, probability and statistics. This course will help build a solid foundation for subsequent math selections at the 10, 20, and 30 levels. **Math 99\* covers the same topics as Math 90 but utilizes only one semester.**

##### **Physical Education 90**

Physical Education 90 focuses on the development of a lifetime commitment to physical activity and health-enhancing behaviour. Students participate in a variety of different activity components and are introduced to concept-based skill development. In addition to traditional activities, other components may include cross country running, cycling, discus, gymnastics, high jump, javelin, lacrosse, orienteering, rugby and weight training. The course also includes the development of positive attitudes towards physical activity, physical fitness, relationships, social behaviour and personal and group safety.

## **Science 90**

Science 90 is an introduction to the basic concepts and vocabulary of the three major branches of science (Biology, Chemistry and Physics). This course also serves as a prerequisite to Science 10, in which a variety of topics are further discussed. The five units of study include: Measurement, Reproduction (Biology), Chemistry, Electricity (Physics) and Universe (Physics). Each unit encourages interaction within discussion, laboratory settings and group work.

## **Social Studies 90**

This course is based on a historical overview from prehistoric times until the 18th Century. Unit topics are based on the themes of time, change, causality, and culture.

## ***B. ELECTIVE COURSES***

### **Band 90**

This course is primarily for students who have been in band in elementary school. Band 90 focuses on practice habits, tone development, tuning, fingering, range, rhythm reading and repertoire development. Band students are expected to play in all concerts and in-town festival performances. Band 90 takes place before school.

### **Choral 90**

This course deals with the elements of choral singing through the learning and performance of choral literature. The courses focus on vocal technique, tone, production, the study of rhythmic and melodic lines and learning to work within an ensemble. Performance opportunities include festivals, public concerts and school liturgies. Choral 90 takes place at noon.

### **PAA/FA 90**

PAA/FA 90 is a full year Practical and Applied Arts/Fine Arts survey course. Students will be taught the theory and practical aspects in Home Economics, Visual Art, Computers, Drama, and Music through a rotational schedule.

### **C. FRENCH IMMERSION PROGRAM**

#### **Éducation Chrétienne 90 (required course for French Immersion)**

This course generally covers the same topics and material as the Christian Ethics 90 course. The language of instruction is French.

#### **Français 90 (required course for French Immersion)**

Français 90 is an integrated courses giving approximately equal time to literature, composition and formal grammar study. The literature units focus on short stories, poetry, the novel and folklore. In composition, the focus is on applied grammar skills, spelling, vocabulary development and writing strategies. Oral activities are central to the course.

#### **Mathématiques 90 (required course for French Immersion)**

This course covers the same topics as Mathematics 90. This is a year-long course that deals with square roots, surface area, exponents, rational numbers, linear relations, polynomials, linear equations and inequalities, similarity, transformations, circles, probability and statistics.

#### **Sciences humaines 90 (required course for French Immersion)**

This course generally covers the same topics and material as the Social Studies 90 course and is based on a historical overview from prehistoric times until the 18th Century. Unit topics are based on the themes of time, change, causality, and culture. The language of instruction is French.

The remaining grade nine classes will be taught in English and will follow the descriptions listed in the English program section.

## GRADES 10, 11 AND 12 COURSE DESCRIPTIONS

### A. ARTS EDUCATION

#### **Band 10, 20 & 30**

Prerequisite: Band 90,10,and 20

Each level of this class focuses on increasingly advanced repertoire, with emphasis on tone development, articulation, intonation, dynamics, blend, and listening skills. Band students are expected to play in all concerts and in-town festival performances. Students without previous band experience will be admitted only after consultation with the band director. Band takes place before school or at noon.

#### **Choral 10, 20 & 30**

These courses deal with the elements of choral singing through the learning and performance of choral literature. The courses focus on vocal technique, tone, production, the study of rhythmic and melodic lines, and learning to work within an ensemble. Performance opportunities include festivals, public concerts and school liturgies. Choral takes place at noon.

#### **Drama 10**

Students in this course are launched into the world of theatre. Areas of study will include set design, music video creation, and theatre aspects.

#### **Visual Art 10**

Visual Art 10 consists of studies in studio art, history, art criticism and appreciation. The studio art making component consists of basic drawing, design, painting, sculpture and print making. The art historical component includes an overview of art through the ages. Students will explore past, present and cross cultural artistic traditions. They will develop personal expression and creative thinking. Students will also develop the skills of critiquing many forms of art work.

#### **Drama 20**

This course builds on the principles of Drama 10 and exposes students to various styles of theatre, Children's Theatre, Reader's Theatre, and Improvisation. Recommended: Drama 10

#### **Visual Art 20**

This course expands on knowledge and skills acquired in Visual Art 10. The studio component consists of development in drawing design, painting, sculpture and printmaking. The art historical component focuses on Saskatchewan artists and historical art periods. Students will continue to develop critical abilities, personal expression and creative thinking. Recommended: Visual Arts 10

### **Drama 30**

Students will do extensive study in scene work. This will happen through the creation and development of characters and script content as well as a great deal of scene analysis. In Drama 30, the actors will participate in individual activities and group activities that will challenge and explore their creativity and imagination. Recommended: Drama 20

### **Visual Art 30**

This course expands on the foundation and techniques learned in Visual Arts 10 and 20. It allows students to develop a greater knowledge about artists and art mediums already introduced in the two previous courses and give them the opportunity to pursue independent art projects of interest in term two of this course. Students should have a Visual Arts 10 and/or Visual Arts 20 prior to taking this class. Recommended: Visual Arts 10 and/or 20

## ***B. CHRISTIAN ETHICS***

### **Christian Ethics 10**

The core theme of this course is Jesus of History, Christ of Faith. The objective is to have the students understand that their life story is interrelated with their communities' stories. The students will appreciate Scripture as the backdrop of the Christian community and study the Gospels to learn about the Christian understanding of Jesus. They will realize that the Christian message calls us to serve as Jesus did and by the end of the course, hopefully have cultivated a deeper personal relationship with Jesus. **A service project which requires a minimum of ten hours is a component of the course.**

### **Christian Ethics 20**

The Christian Ethics 20 course centres on a Community Called Church. The objective is to invite the students to understand the nature of the Christian community by studying the history of Christianity. They also take a close look at the morals and values of our faith, what it tells us about contemporary moral issues and ultimately learn how to make good decisions for themselves and their community. **A service project which requires a minimum of ten hours of personal time will be a component of this course.**

### **Christian Ethics 30**

The Christian Ethics 30 focuses on Christian spirituality, vocations, sacraments, relationships and world religion. **A service project which requires a minimum of ten hours of personal time will be a component of this course.**

## **C. ENGLISH LANGUAGE ARTS**

Students refine their language by using it in purposeful and meaningful situations involving a variety of oral and written contexts. Experience in all **Language Arts** strands - **speaking, listening, writing, reading, representing and viewing** - is essential for competence in using the English language. Students in the senior grades learn that language varies according to audience, purpose and situation; that language has a variety of logical and structural patterns and that language develops and changes over time. Students reflect upon, and respond to, a wide range of literary genres and on new knowledge of the interdependence of language acquisition, cognitive development and teaching strategies.

### **English Language Arts A10 and B10**

Writing and speaking focus on developing narration, description, exposition and persuasion. Students work on producing multi-paragraph compositions. Reading and listening focus on responding personally, critically and creatively to literature is key. Students learn to analyze, evaluate and understand the world around them.

### **Creative Writing 20**

Prerequisite: ELA A10 or ELA B10

This course is designed to help students better understand the techniques and skills of creative writing. Students explore various mediums of creative writing, and engage in actively improving their own writing techniques. Students have an opportunity to read, view, write and discuss critically as they examine the art of creative writing in English. *Creative Writing 30 may be offered as well depending on the number of student requests.*

### **English Language Arts A20**

Prerequisites: ELA A10 and B10

This course is organized around themes that are of interest to adolescents and that focus on self and society and what it means to be human in our steps from childhood to old age. The language and literature is integrated utilizing a variety of non-fiction and fiction resources to examine the ELA strands.

### **Media Studies 20**

Prerequisite: ELA A10 or B10

Our world is influenced and shaped by the sights, sounds, opinions and values presented by mass media. This course is designed to help students better understand mass communication and popular culture, as well as the impact of mass media on the individual and society.

### **English Language Arts A30 & B30**

Prerequisite: ELA 20

These courses address issues as reflected in the traditional and contemporary literature of Canada and the world. The English Language Arts A30 course is designed around examining Canada; the experience of place, the national character, and our heritage. English Language Arts B30 is an issue-oriented course examining global perspectives using traditional and contemporary world literature in a comparative manner. ELA B30 looks at world perspectives through cultural heroes, the human condition, and the social system experience.

**D. FRENCH IMMERSION (24 credits required for graduation, 12 of which must be French Immersion based courses.)**

**Education chrétienne 10**

This course covers the same topics and material as the Christian Ethics 10 course. The language of instruction is French. **A service project with a required minimum of ten hours of personal time must be completed to fulfill course requirements.**

**Français immersion 10**

Français Immersion 10 is a course which provides the student with the opportunity to develop the ability to use the French language as an instrument of personal and social communication. Students will improve their listening, reading, writing and oral skills through a study of French literature, grammar, media study and culture. The language of instruction is French.

**Histoire 10**

This course generally covers the same topics and material as the History 10 course. The language of instruction is French.

**French immersion Mathematics Courses:**

Students will complete **Foundations of Mathematics and Pre-Calculus 10 as part of the French Immersion Program. After the Grade 10 level math course, French Immersion students will complete Math Foundations courses at the 20 and 30 level.**

**Fondements des mathématiques et Précalcul 10 (FM 10F)**

This course is for students in the French Immersion Program. It covers the same topics as Foundations of Mathematics and Pre-Calculus 10.

**Education Chrétienne 20**

This course covers the same topics and material as the Christian Ethics 20 course. The language of instruction is French. **A service project with a required minimum of ten hours of personal time must be completed to fulfill course requirements.**

**Fondements des mathématiques 20**

Prerequisite: Mathématique 10

This course is for students in the French Immersion Program. It covers the same topics as Foundations of Mathematics 20.

**Français immersion 20**

Prerequisite: Français immersion 10

Français Immersion 20 is a course which provides the student with the opportunity to develop the ability to use the French language as an instrument of personal and social communication. Students will improve their listening, reading, writing and oral skills

through a study of French literature, grammar, and culture. The language of instruction is French.

### **Histoire 20**

Prerequisite: Histoire 10

This course generally covers the same topics and material as the History 20 course. The language of instruction is French.

### **Éducation Chrétienne 30**

The Christian Ethics 30 focuses on Christian spirituality, vocations, sacraments, relationships and world religion. The language of instruction is French. **A service project with a required minimum of ten hours of personal time must be completed to fulfill course requirements.**

### **Fondements des mathématiques 30**

Prerequisite: Mathématique 20

This course is for students in the French Immersion Program. It covers the same topics as Foundations of Mathematics 30.

### **Français immersion 30**

Prerequisite: Français Immersion 20

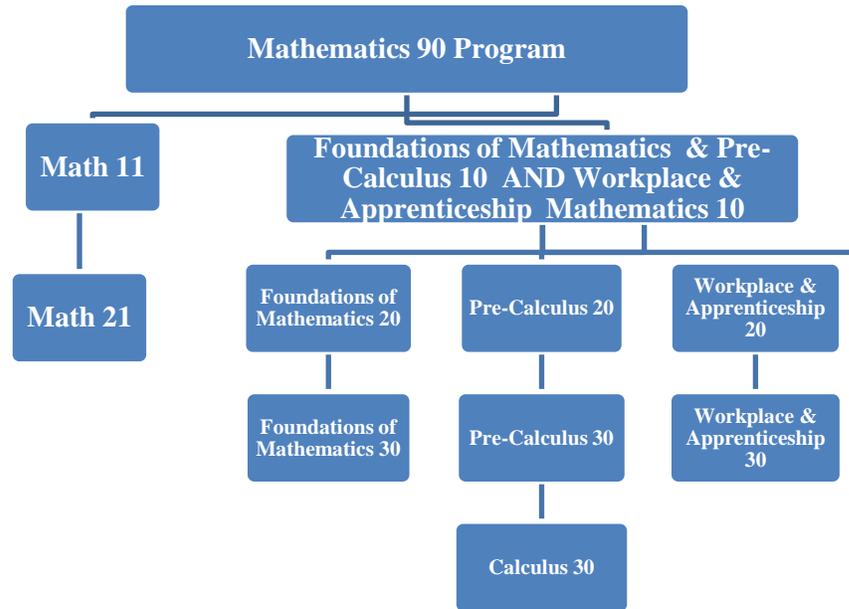
This course seeks to “help students create a vision of the world which will help them in their adult lives.” (Sask. Ed) Students with a minimum of 80% in the French Immersion 20 courses have the opportunity to prepare and write the Advanced Placement French Exam while studying French Immersion 30.

### **Sciences Sociales 30**

Prerequisite: Histoire 20

This course generally covers similar topics to History 30 & Social Studies 30 course. The language of instruction is French.

## E. MATHEMATICS



\*Graduation requirement for mathematics is any 20 level course.

\*Students can take more than one pathway at the 20 and 30 level.

### 10 Level Mathematics Course Descriptions

*In Grade 10, students have the option to complete both Grade 10 Mathematics courses: Workplace and Apprenticeship Mathematics 10 (WA 10) & Foundations of Mathematics and Pre-Calculus 10 (FM 10) as part of their math program. The material in both courses is rigorous and will allow students to develop a deep foundational understanding of mathematics.*

### Workplace and Apprenticeship Mathematics 10 (WA 10)

Topics include: measurement, trigonometry, geometry, financial mathematics, and algebra. The content was chosen to meet the needs of students thinking of careers in the trades and general workplace.

### **Foundations of Mathematics and Pre-Calculus 10 (MAF 10)**

Foundations and Pre-calculus content was chosen to meet the needs of students pursuing university education. Foundations for the humanities, fine arts, social sciences, and nursing, while Pre-Calculus content was chosen for the math and sciences. Topics include: exponents, polynomials, factoring, irrational numbers, and relations and functions.

### **\*\*Foundations of Mathematics and Pre-Calculus 100/Foundations of Mathematics 200\*\***

This course covers the same topics as the Foundations of Mathematics and Pre-Calculus 10 (MAF10) and Foundations of Mathematics 20 (FM20), but will run yearlong. This extended time allows for a less rigorous pace and more time to complete assignments in class. Students who experienced marginal success in the Math 90 program and want to follow this pathway are asked to speak with school administration and their math teachers.

### **Math Workplace & Apprenticeship 20 (WA 20)** Prerequisite: Workplace & Apprenticeship 10

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades, some post-secondary programs and direct entry into the work force. Topics include financial mathematics, algebra, logical reasoning, number sense and geometry.

### **Foundations of Mathematics 20 (MAF 20)** Prerequisite: Foundations of Mathematics & Pre-Calculus 10

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include logical reasoning, proportional reasoning, geometry, trigonometry, algebra, statistics and probability.

### **Pre-Calculus 20 (PC 20)** Prerequisite: Foundations of Mathematics & Pre-Calculus 10

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. It is recommended students have achieved a mark of 65% or higher in Foundations and Pre-Calculus 10 to take this course. Topics include absolute value, radicals, trigonometry, rational expressions and equations, factoring, quadratic functions, quadratic equations, inequalities, sequences and series, reciprocal functions.

**Math Workplace & Apprenticeship 30 (WA 30)** Prerequisite: Workplace & Apprenticeship 20

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades, several post-secondary programs offered at SIAST and University of Regina, and direct entry into the work force. Topics include financial mathematics, algebra, logical reasoning, number sense and geometry.

**Foundations of Mathematics 30 (MAF 30)** Prerequisite: Foundations of Mathematics 20

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus. Topics include logical reasoning, financial mathematics, set theory, odds and probability, permutations and combinations, graphing and analysis of functions, data collection and analysis.

**Pre-Calculus 30 (PC 30)** Prerequisite: Pre-Calculus 20

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include geometry, trigonometry, operations on functions, composite functions, transformations, logarithms, polynomial functions, radical and rational functions, permutations and combinations.

**Calculus 30** Prerequisite: Pre-Calculus 30

Calculus 30 involves a study of limits, the derivative function and its application to problem solving and graphing, and integration and its applications. This course is designed to prepare students for University calculus (Students pursuing Math, Science, Engineering, and Business).

## **F. PHYSICAL EDUCATION**

### **Wellness 10 (B/G)**

Wellness 10 is a combination of physical education and health education. This class emphasizes the need for balance between mind, body and spirit. Its aim is the development of a wellness philosophy and the pursuit of wellness as a life-long behaviour pattern. Students will investigate five different strands: physical activity and fitness, stress and its management, leisure, relationships and healthy eating.

### **Physical Education 20 & 30**

Physical Education 20 & 30 are both elective courses. Students have the opportunity to participate in **one** of the courses per semester. These classes will be co-ed and will be offered if interest allows. There may be a fee to participate in these courses based on the activities selected.

### **PE Elite Fitness & Training 20 & 30**

Prerequisite: Administration Approval

This course will offer students the chance to better understand fitness training, to develop personal fitness plans, and to get plenty of exercise! Through a variety of both in-school and out-of-school activities, students will develop an appreciation for life-long fitness and will strive to achieve their personal fitness goals. Fitness activities may include: weight room training, yoga, boxing, aqua exercise, spin, wall climbing, running programs, step aerobics and others. The emphasis will be on FITNESS and FUN in a supportive and encouraging environment.

## **G. PRACTICAL AND APPLIED ARTS**

### **Accounting 10**

Students interested in business should take this course and offers a great opportunity to develop basic financial literacy skills. Areas of study include the accounting cycle and how it relates to a service firm, preparing financial statements, general ledgers/journals, and general banking.

### **PAA A10**

This PAA course has two portions that are Home Economics based. Students will learn basic cooking skills, prepare food dishes, and study healthy food choices. The second portion of the course students will learn basic sewing skills. There may be a materials fee associated with this course.

### **PAA B10**

This PAA course is designed to introduce students to the broad range of experiences in a shop setting. Students will have the opportunity to explore and develop skills in

Woodworking, Small Gas Engines, and Digital Imagery. There may be a materials fee associated with this course.

### **Communication Media (CPT) 10**

Students will develop basic knowledge, skills, and abilities in audio, video and multimedia production. Students will be introduced to the three stages of production including: pre-production, production, and post-production. They will be involved in basic audio, video, and multimedia production activities, and will participate in one or more production projects. Students will be introduced to Final Cut Pro, a professional video editing program.

### **Accounting 20**

Prerequisite: Accounting 10

The objective of this course is to expand the basic accounting cycle from Accounting 10 to include accounting systems for a merchandising firm. Other units include discounts, schedules, ledgers/journals and taxation. Personal management, savings and investing may also be included.

### **Career and Work Exploration 20 & 30**

Students will learn how to become “Ready for Work” by studying safety in the workplace, Saskatchewan Youth Apprenticeship, labour standards for new workers, and how to seek potential jobs and careers while polishing their interview skills and resume writing. Students will choose work placements in the community and spend the majority of their time on the job. A major project will be the creation of a career portfolio.

### **Communication Media (CPT) 20 and 30**

These courses increases students' understanding of important knowledge, skills, and abilities required in the creation of audio, video, and multimedia products. Post-production activities will begin to take more of a focus in this class. Students will work collaboratively to create a variety of multimedia projects. Emphasis will be placed on creating media for an artist's portfolio. Recommended: Comm. Media10

### **Industrial Arts 20**

This course will introduce students to the safety, theory, and hands on experience in the areas of Woodworking, Welding and Digital Imagery. There may be a materials fee associated with this course. Industrial Arts 10 is recommended.

### **Accounting 30**

Prerequisite: Accounting 20

This course follows through with the concepts of Accounting 10 and 20 as well as introducing management accounting. Other areas covered include cost/volume/profit analysis, budget/assets analysis and computer software in accounting.

### **Entrepreneurship 30**

The goal of Entrepreneurship Education is to learn skills and information needed to establish and run a small business. This course will help students learn problem solving, communication and analytical skills while determining potential opportunities. Students will look at societal problems and/or needs with an eye for creating change in order to seek and explore, and take advantage of opportunities that exist everywhere! Units covered include Characteristics and Attitudes of an Entrepreneur, Opportunity Assessment, The Business Plan, Marketing, Operation and Financial Planning. Students will participate in the Junior Achievement Company Program where they will plan, finance, create and run their own class company. Evaluation is based on assignments and projects.

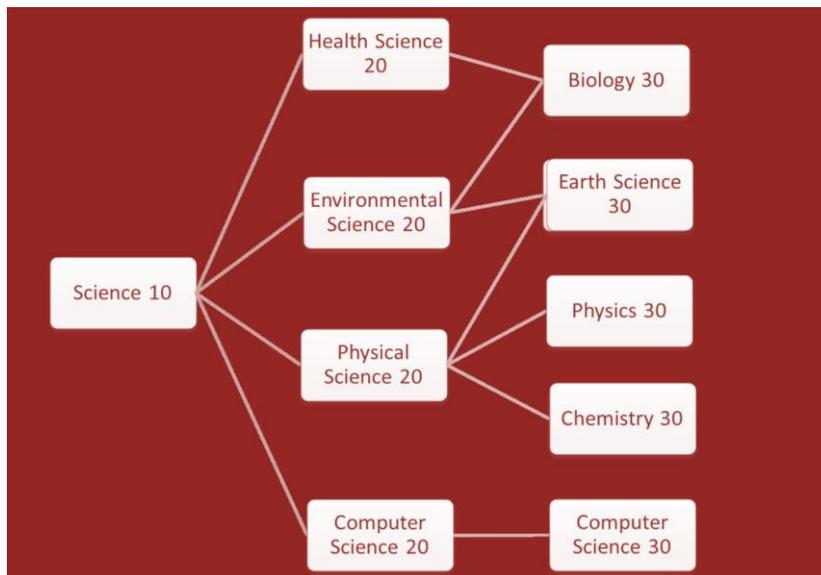
### **Food Studies 30**

Students will learn the art of food preservation, nutrition and the Canada Food Guide, labeling, additives, snacks and International foods. The class will focus on preparing students for living on their own. There may be a cost for consumable materials used by the students.

### **Industrial Arts 30**

This course will allow students to continue exploring and developing skills in Woodworking, Metal/Welding, and On-site Construction training. There may be a materials fee associated with this course. Industrial Arts 20 is recommended.

## **H. SCIENCES**



\*Graduation requirement for Science is any 20/30 level course.

**\*Students can take more than one pathway at the 20 and 30 level.**

\*Science curriculum renewal was implemented in the 2014-2015 school year.

### **Science 10**

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.

### **Computer Science 20**

Prerequisite: Science 10

Students in this course will be introduced to the fundamentals of programming and design. Students will study and practice problem solving, program design and debugging within the Visual Basic environment. In addition, students will be introduced to HTML (web page design), parts of the computer networking, Internet, computer history and computer applications. A research project will be part of this course.

### **Environmental Science 20**

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**

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 apply information in the areas of medical knowledge systems and ethics, human anatomy and physiology, nutrition and metabolism, and medical diagnostics. 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 and the tools and techniques used to diagnose those systems. Students will also investigate the range of health science careers and post-secondary programs available in Saskatchewan.

### **Physical Science 20**

Prerequisite: Science 10

This course combines elements of Chemistry 20 and Physics 20 in an integrated hands-on manner to investigate concepts related to heating and cooling, the foundations of chemistry, including the mole and quantitative analysis of molecules and chemical reactions, and the characteristics and properties of electromagnetic radiation. An overarching theme is the study of the enterprise of public and private science as it occurs in agriculture, industry, and universities to help students better understand the physical science related career paths. Student inquiry will guide independent investigations of physical science phenomena.

### **Biology 30**

Prerequisite: Science 10

Biology 30 is both a continuation and a complement to the Biology 20 course. There are five major areas of focus in this course: The Chemical Basis of Life; Cell Structure and Function; Genetics; Animal Systems and Structures; and Evolution. It is recommended that students take Biology 20 first.

### **Chemistry 30**

Prerequisite: Chemistry 20

Chemistry 30 expands on the concepts developed in Chemistry 20. There is a strong experimental component with emphasis on proper presentation and interpretation of data. The course outlines the major concepts of the five main branches of Chemistry identified in Unit 1 of Chemistry 20. The course work requires good work habits and general mathematical skills.

### **Computer Science 30**

Prerequisite: Computer Science 20

The main focus of this class is website development. Computer Science 30 builds on programming, problem solving, program design and debugging previously introduced in CS20. The course begins with a brief history and introduction to computer hardware and software. CS30 then dives straight into the world of writing code. We focus on HTML and Javascript which are two essential aspects of website development. Being able to create your own website is a rewarding and useful skill. This course requires self-motivated students as it is student driven and project based.

### **Physics 30**

Prerequisite: Physics 20, Physical Science 20 or Math 20

Physics 30 deals with the concepts of kinematics, dynamics and electricity. The mathematical nature of the course uses linear and two dimensional motions. The experimental component is designed to enhance student understanding with emphasis on proper presentation and interpretation of data. Students registering for the course should be aware that it involves concept application, identification and the mathematical description of energy and motion. Being a quantitative course a good mathematical background would be an asset.

## ***I. SOCIAL SCIENCES***

### **Social/History 10**

This course involves a study of European history from the Age of Absolutism up to World War I. It emphasizes the social, cultural, political and economic changes that led to the emergence of modern Western society. Major topics may include Political Decision Making; International Organizations; French Revolution; the Industrial Revolution; Nationalism; Imperialism; the rise and fall of monarchies and nations; and the Age of Revolution.

### **History 20**

This course emphasizes the events of the 20th century. Major topics include the First World War and its aftermath; the rise of totalitarian societies and nations; World War II; the Cold War; Détente; the Middle East and Global Interactions. Emphasis is also placed on current world issues and their relationship to the past.

### **Native Studies 20**

This course is designed to familiarize students with the contemporary concerns of Indigenous people. The scope of study is global in nature, but has applications for the individual living in Saskatchewan. Five themes will be considered: Indigenous people of the world, change, social justice, development and self-determination. *Native Studies 30 may be offered if enough interest is expressed.*

### **Social/History 30 Canadian Studies**

Social/History 30 examines some of the key social, economic, political, historical, and cultural developments in Canada from the arrival of the first Canadians (First Nations People) to present day. Topics studied include the geography of Canada and its influence, Canada's First Nations People, the French and British Periods, Confederation, the Canadian system of government, the emergence of the Canadian Nation, Canada and the World, and current events from a primarily Canadian perspective. The course is organized into five major units: Relationship: Peoples and Paradigms; the 19th Century: The Road to Democracy; External Forces and Domestic Realities; the Forces of Nationalism; and Challenges and Opportunities. Topics vary depending on the stream chosen.

### **Law 30**

This course is designed to assist students to become active, informed and productive citizens who know and understand their legal rights and responsibilities. Through the course, students develop an understanding of the concept of rule of law, and learn that the law reflects, and is shaped by, society's values and attitudes regarding social and human relationships. The course begins by developing students' understanding of the abstract nature of law, its sources and purposes. The abstract nature of law is made relevant through study of the concrete application of law to current legal issues in Canada and the global community. Topics addressed include foundations of Canada's legal system, criminal and civil law, family law, employment and labour law, contract and consumer law, environmental law and international law.

### **Life Transitions 20**

Life Transitions 20 will allow students to acquire and refine the knowledge, skills and abilities to plan and enhance their personal health, family life, community life, and career development in order to effectively manage the change encountered in the transitions they will face throughout life.

### **Life Transitions 30**

Life Transitions 30 will build on the ideas and concepts discussed at the 20 level to give students the knowledge and skills to cope with life's challenges. Topics to be covered: family, career, relationships, conflict resolution, personal health and money management. An opportunity to create a transition plan for after high school will also be provided.

### **Psychology 20**

Psychology 20 examines what Psychology is, why it is classified as a social science, and what insight it provides into human development, thinking, and behavior. It examines the

interaction of organisms, the effect of environment, as well as other factors. One of the key focuses of the course is on the individual in interaction with society. Some of the key concepts examined are Myers-Briggs and other personality type indicators, personality, communication, conflict, frustration and stress.

### **Psychology 30**

The focus of this course is human development. 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 infancy through childhood, adolescence, adulthood and old age. Students will be encouraged to re-assess preconceived ideas and prejudices, and begin to discover how psychological theories, methods and studies lead to greater understanding of how, in general, humans think, feel and behave relative to each stage of development.

## **J. MODIFIED COURSES**

Modified courses are offered at every grade level. These courses are numbered 11, 21 and 31. Modified courses are available in a number of subject areas and are designed for students who are not able to be successful in regular credit courses. There are course offerings in the following: English Language Arts, Science, Math, and History/Social. These courses will be offered within the regular class setting. Approval by school administration is required to be enrolled in a modified class.

### **Mathematics 11**

Prerequisite: Administrative Permission

Mathematics 11 is a modified 10 level mathematics course. This course focuses on improving basic math and algebraic skills taught in grade nine as well as developing math skills used in everyday life at a learning pace suited for all students in the class. Topics include algebra skills, consumer math, the right triangle, linear equations and linear functions. This course is a prerequisite for Mathematics 21.

### **Mathematics 21**

Prerequisite: Administrative Permission

Mathematics 21 is a modified 20 level mathematics course. Topics include: consumer math, algebra skills, probability, angles and polygons, irrational numbers and circles. Mathematics 21 satisfies the Ministry of Education graduation requirements, but does not serve as a prerequisite for 30 level mathematics courses.

### **Science 11**

Prerequisite: Administrative Permission

The course provides a modified credit in science for students who have encountered difficulty with Science at the 90 level. In this program the content, process and evaluation procedure is modified to facilitate student success.

### **Science 21**

Prerequisite: Science 10 or Science 11 and Administrative Permission

A modified credit is offered in science at the senior level for students who have encountered difficulty with science at the Level 90 and 10. In this program the content, processes and evaluation procedures are modified to facilitate student success.

### **History 11**

Prerequisite: Administrative Permission

A modified credit is offered in Grade 10 History to meet the needs of students who have encountered difficulty with the regular course. This course is modified in content, processes and evaluation procedures to facilitate student success.

### **History 21**

Prerequisite: Administrative Permission

A modified credit is offered in Grade 11 History to meet the needs of students who have encountered difficulty with the regular course. This course is modified in content, processes and evaluation procedures to facilitate student success.

### **History 31**

Prerequisite: Administrative Permission

A modified credit is offered in Grade 12 History to meet the needs of students who have encountered difficulty with the regular course. This course is modified in content, processes and evaluation procedures to facilitate student success.

## **K. EXTRA CREDIT OPTIONS**

Students may earn extra credits that can be used to fulfill elective requirements for graduation. These credits vary in nature and may include *Special Projects* based upon student interest or *Apprenticeship Time* through the Saskatchewan Apprenticeship and Trade Certification Commission.

**\*\*Although 24 credits are needed to graduate from high school not all courses are accepted, used or required by Post-Secondary Institutions. It is the responsibility of the student to ensure that the courses they are taking will fulfill the entrance/admission requirements for their particular Post-Secondary selection. \*\***

**Please refer to the Vanier registration forms available on-line or through PowerSchool in order to complete the appropriate course selections per grade. Guidance and Academic Counseling is available through Student Services to assist you with your educational and career planning needs.**

**PowerSchool allows Vanier students and their parents to securely access student information via the internet. Parents are assigned a unique login name and password from the school. PowerSchool can be accessed at:**

**<http://powerschool.htcsd.ca/public/home.html>**



## Vanier Collegiate Institute Graduation Check List

In order to graduate you must have completed the following compulsory subjects and hold a minimum of 24 credits. Please remember that these classes do not guarantee post-secondary entrance. Note: French Immersion students must complete 12 credits in French. There are specific requirements so please meet with your academic counsellor for more information.

### GRADE 9

	Mark		Mark
Math 99 or		FA/PAA 90	
Math 90 or			
Math 91		Physical Education 90	
Catholic Wellness 90		Science 90	
English 90/91		Social Studies 90	

*Grade 9 classes are required to move into grade 10 classes but they do not count towards the 24 credits needed to graduate.*

### GRADE 10

	Mark	Electives	Mark	Mark
<u>One or more of</u>		English Language Arts A 10/11		
Workplace & App. Math 10				
Foundations of Math 10		English Language Arts B 10/11		
Math 11				
		Social Studies/Histoire 10		
Christian Ethics 10				
		Wellness 10		
Science 10/11				

### GRADE 11

	Mark		Mark	Electives	Mark
<u>One or more of</u>		<u>One or more of</u>			
Workplace & App. Math 20		Computer Science 20			
Foundations of Math 20		Environmental Science 20			
Pre-Calculus 20		Health Science 20			
Math 21		Physical Science 20			
		Science 21			
Christian Ethics 20					
		<u>One or more of</u>			
English Language Arts 20/21		Social/History 20			
		Law 30			
		Psychology 20 or 30			
		Histoire 20			
		Native Studies 20			

<b>GRADE 12</b>		Mark	Mark	Electives	Mark
Christian Ethics 30		Social Studies/History 30			
English Language Arts A30/31		one other "30" level class			
English Language Arts B30/31					

**NOTES:**