

# ST. JAMES COLLEGIATE INSTITUTE COMMON COURSE HANDBOOK 2024-2025



# JIMMIES



1900 Portage Avenue, Winnipeg, MB R3J 0J1

Phone: 204.888.4867

Connect with us:

Website: <https://www.sjasd.ca/school/stjames>

Instagram: @stjamescollegiate

# ST. JAMES COLLEGIATE INSTITUTE COURSE SELECTIONS BY GRADE

GRADE 9 CORE COURSES (6 credits)	COURSE CODE	X
English 10F ( <i>All Year - 1 credit</i> )	EN 10F	X
Mathematics 10F ( <i>All Year - 2 credits: includes Transitional Math &amp; Life/Work Exploration</i> )	MA10F	X
Science 10F	SC10F	X
Canada in the Contemporary World 10F	SS10F	X
<b>PE/HE Choose ONLY one (1):</b>		
Physical Education/Health Education 10F	PE10F	
Female-Identifying Fitness 10F	PE10FF	
<b>OPTIONS COURSES (4 credits) Rank CHOICES from 1&gt;6</b>	<b>COURSE CODE</b>	<b>#</b>
Applying Information and Communication Technology 1 combined with Applying Information and Communication Technology 2 (1 credit: 2, 0.5 credits in one semester)	IT15FA IT15FB	
Electronics 15G combined with Wood Technology 15G (1 credit: 2, 0.5 credits in one semester)	EL15G & WT15G	
Graphic Communications Technology 10G	GT10G	
Autobody: Exploration of Collision Repair & Refinishing 10S	ABR10S	
Exploration of Welding 10S	WE10S	
Business Innovations 10S	BN10S	
Hairstyling: Introduction 10S combined with Hairstyling 20S (2 Credits: 1 credit/course/per semester)	HS10SS & 20S	
Applied Horticulture 30S	HORT30S	
Current Topics in Sciences 30S	SC30S	
Environmental Topics in Science 30S	SC230S	
Family Studies 20F	FA20F	
American History 20G	HI20G	
French 10F	FR10F	
Hockey Canada Skills Academy 11G <i>*additional fee required</i>	HA11G	
Visual Arts 10S	VA10SS	
Dance 10S	DA10SS	
Drama 10S	DR10SS	
Musical Theatre 10S	MT10SS	
Music Concert Band 10S & Music Jazz Band 10S (2 credits, alternating days all year)	MB & MJ10SS	
Music Guitar 10S	MG10SS	

GRADE 10 CORE COURSES (5 credits)	COURSE CODE	X
English 20F	EN20F	X
Geographic Issues of the 21st Century 20F	GE20F	X
Science 20F	SC20F	X
<b>Math Choose one, or both:</b>		
Mathematics Essentials 20S	MA20S	
Mathematics Introduction to Applied and Pre-Calculus 20SPA ( <i>pre-requisite for G11 &amp; 12 Applied &amp; Pre-Calculus</i> )	MA20SPA	
<b>PE/HE Choose ONLY one (1):</b>		
Physical Education/Health Education 20F	PE20F	
Female-Identifying Fitness 20F	PE20FF	
<b>OPTIONS COURSES (5 credits) Rank CHOICES from 1&gt;6</b>	<b>COURSE CODE</b>	<b>#</b>
Electronics 20G	EL20G	
Graphic Communications Technology 20G	GT20G	
Wood Technology 20G	WT20G	
Autobody: Introduction to Collision Repair & Refinishing 20S	ABR20S	
Introduction to Welding 20S	WE20S	
Creative Promotions 20S	CP20S	
Personal Finance 20S	PF20S	
Hairstyling: Styling 20SA & Cutting 20SB (2 Credits: 1 credit/course/per semester)	HS20SA & 20B	
Applied Horticulture 30S	HORT30S	
Current Topics in Sciences 30S	SC30S	
Environmental Topics in Science 30S	SC230S	
Family Studies 20F	FA20F	
Food & Nutrition 20S	FN20S	
American History 20G	HI20G	
French 20F	FR20F	
Hockey Canada Skills Academy 21G <i>*additional fee required</i>	HA21G	
Visual Arts 20S	VA20SS	
Dance 20S	DA20SS	
Drama 20S	DR20SS	
Musical Theatre 20S	MT20SS	
Music Concert Band 20S & Music Jazz Band 20S (2 credits, alternating days all year)	MB & MJ20SS	
Music Guitar 20S	MG20SS	

GRADE 11 CORE COURSES (4 credits)		COURSE CODE	X
History 30F		HI30F	X
<b>English: Choose One (minimum):</b>			
English Comprehensive Focus 30S		EN30SC	
English Transactional Focus 30ST		EN30ST	
English Literary Focus 30SL		EN30SL	
<b>Math: Choose One (minimum):</b>			
Mathematics Applied 30S ( <i>pre-req for 40SA</i> )		MA30SA	
Mathematics Essentials 30S		MA30S	
Mathematics Pre-Calculus 30S ( <i>pre-req for 40SP</i> )		MA30SP	
<b>PE/HE: Choose ONLY One (1):</b>			
Physical Education/Health Education 30F		PE30F	
Female-Identifying Fitness 30F		PE30FF	
G11 OPTIONS COURSES (up to 5 credits) Rank CHOICES from 1>6		COURSE CODE	#
Electronics 30S		EL30S	
Graphic Communications Tech 30G		GT30G	
Wood Technology 30G		WT30G	
Autobody 30S (A, B, C) (3 Credits: 2 in one semester, 1 in another)		ABR30SA,30SB,30SC	
Introduction to Welding 20S		WE20S	
Life/Work Building 30S		LF30S	
Accounting 30S ( <i>pre-req for 40S</i> )		AE30S	
Venture Development 30S		VN30S	
Retailing Perspectives 30S		RP30S	
Personal Finance 20S		PF20S	

Hairstyling 30S (+A,B,C) (4 courses for 4 credits, 2 courses/semester)		HS30S, SA, SB, SC	
Biology 30S		BI30S	
Chemistry 30S ( <i>pre-req for 40S</i> )		CH30S	
Physics 30S ( <i>pre-req for 40S</i> )		PH30S	
Applied Horticulture 30S		HORT30S	
Current Topics in Sciences 30S		SC30S	
Environmental Topics in Science 30S		SC230S	
Family Studies 30S		FA30S	
Food & Nutrition 30S		FN30S	
First Nations, Metis, Inuit Studies 40S		FM40S	
Treaties and the Treaty Relationship 41G		TTR41G	
French 30S		FR30S	
Hockey Canada Skills Academy 31G <i>*additional fee required</i>		HA31G	
Sustainable Wilderness Education 31G <i>*additional fee required</i>		PE31G	
Exercise Science 40S		EXERSCI40S	
Recreation Management & Athletic Leadership 41G		PE41G	
Visual Arts 30S		VA30SS	
Dance 30S		DA30SS	
Drama 30S		DR30SS	
Musical Theatre 30S		MT30SS	
Music Concert Band 30S & Music Jazz Band 30S (2 credits, alternating days all year)		MB & MJ30SS	
Music Guitar 30S		MG30SS	

GRADE 12 CORE COURSES (3 credits)		COURSE CODE	X
<b>English: Choose One (minimum):</b>			
English Comprehensive Focus 40S		EN40SC	
English Transactional Focus 40ST		EN40ST	
English Literary Focus 40SL		EN40SL	
Advanced Placement English Literature (taken concurrently with 40SL)		EN42S	
<b>Math: Choose One (minimum):</b>			
Mathematics Applied 40SA		MA40SA	
Mathematics Essentials 40S		MA40S	
Mathematics Pre-Calculus 40SP		MA40SP	
Introduction to Calculus and Advanced Math (Pre-requisite: MA40SP)		AM40S	
Advanced Placement Mathematics		MA42S	
<b>PE/HE: Choose ONLY One (1):</b>			
PE/HE 40F		PE40F	
Female-Identifying Fitness 40F		PE40FF	

G12 OPTIONS COURSES (up to 7 credits) Rank CHOICES from 1>6		COURSE CODE	#
Electronics 40S		EL40S	
Graphic Communications Technology 40G		GT40G	
Wood Technology 40G		WT40G	
Autobody 40S (4 Credits: 2 credits/semester)		ABR40SA,SB,SC,SD	
Life/Work Transitioning 40S		LF40S	
Topics and Trends in Business 40S		TT40S	
Business Management 40S		BM40S	
Accounting 30S ( <i>pre-req for 40S</i> )		AE30S	
Accounting 40S		AE40S	
Hairstyling 40S (A,B,C,D) (4 Credits: 2 courses/semester)		HS40SSA, SSB, SSC, SSD	
Biology 40S		BI40S	
Chemistry 40S		CH40S	
Physics 40S		PH40S	

Applied Horticulture 30S	HORT30S	
Psychology 40S	PY40S	
Interdisciplinary Topics in Science 40S	SC40S	
Family Studies 40S	FA40S	
Food & Nutrition 40S	FN40S	
Global Issues 40S	GI40S	
First Nations, Metis, Inuit Studies 40S	FM40S	
Treaties and the Treaty Relationship 41G	TTR41G	
History: Western Civilization 40SW	HI40SW	
Law 40S	LW40S	
French 40S	FR40S	

Hockey Canada Skills Academy 41G <i>*additional fee required</i>	HA41G	
Sustainable Wilderness Education 31G <i>*additional fee required</i>	PE31G	
Exercise Science 40S	EXERSCI40S	
Recreation Management & Athletic Leadership 41G	PE41G	
Visual Arts 40S	VA40SS	
Dance 40S	DA40SS	
Drama 40S	DR40SS	
Musical Theatre 40S	MT40SS	
Music Concert Band 40S & Music Jazz Band 40S (2 credits, alternating days all year)	MB & MJ40SS	
Music Guitar 40S	MG40SS	

## CORE COURSES

The following section contains the core subjects **required** to graduate. These subjects include five-core subject areas: English, Mathematics, Science, Social Studies, and Physical Education/Health Education. These subject areas have additional **OPTION COURSES** available, and their description can be found in the options section of this handbook (p. 8).

## ENGLISH LANGUAGE ARTS

### FOUNDATION COURSES – GRADE 9 AND 10

#### EN10F

In this course, students express their ideas using the six English language arts: reading, writing, listening, speaking, viewing, and representing. The goal of this theme-based course is to provide students with a solid foundation of literacy skills, knowledge, and learning strategies. Emphasis is placed on written communication, including exploration, examination, and analysis of the structure of sentences, paragraphs, essays, and longer fiction and non-fiction text.

*Note: English 10F occurs every day for both semesters*

#### ENGLISH - EN20F

This is the second of the two foundation courses and extends literacy skills, knowledge, and learning strategies. The course continues to emphasize reading comprehension, personal and critical response, interpretation of various text forms and critical and creative thinking. Students continue learning to collect, organize, and synthesize information through research and inquiry processes. Written communication skills continue to be a focus in EN20F. Students create various texts to demonstrate their ability to address a specific audience, for a specific context and purpose.

### FOCUS COURSES – GRADE 11 AND 12

In grade 11 and 12, students choose one of three English curriculum focus courses to meet graduation requirements. These courses include Literary Focus, Transactional Focus, and Comprehensive Focus. Grades 11 and 12 courses offer different specializations based on the purposes for reading, writing, listening to, speaking, viewing, and representing texts. Critical and creative thinking are emphasized in all courses.

*Note: Students may hold credits in all ST, SC, & SL courses*

#### ENGLISH COMPREHENSIVE FOCUS - EN30SC

The Comprehensive Focus course covers a variety of themes, topics, and purposes. It provides an equal amount of time on working with contemporary non-fiction texts/media (such as biographies, interviews, newspaper/magazine articles, and digital texts) and literary texts/analysis (such as novels, poetry, plays, short stories, and essays).

### **ENGLISH LITERARY FOCUS - EN30SL**

The Literary Focus course places more emphasis on working with literary texts and analysis rather than contemporary non-fiction texts/media. Students will have the opportunity to read, write and respond to literary analysis with a particular focus on the writer's use of techniques or devices to communicate their message, and the impact of message and technique on the reader.

### **ENGLISH TRANSACTIONAL FOCUS – EN30ST**

In this course, students will focus on transactional or practical language, writing and non-fiction texts. The Transactional Focus course gives more weight to experiencing contemporary non-fiction texts/media rather than literary texts/analysis.

### **ENGLISH COMPREHENSIVE FOCUS - EN40SC**

In this course, students will read, write, and respond to a balance of contemporary and literary. Reading, writing, listening, speaking, viewing, and representing are explored while an emphasis on critical and creative thinking is at the forefront.

### **ENGLISH Literary Focus - EN40SL**

In the Literary focus course students will read, write, and respond at a complex and deep level to literary texts including poetry, short prose, plays, novels and essays.

### **ENGLISH TRANSACTIONAL FOCUS - EN40ST**

In the Transactional focus course, students will creatively and critically read, write, and respond to contemporary forms of communication including biographies, interviews, newspaper and magazine articles, books, and digital texts.

## **MATHEMATICS**

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### **Grade 9**

#### **MATHEMATICS FOUNDATIONS - MA10F**

This course provides the foundation for the various mathematics courses at Grade 10. The course includes, but is not limited to, statistics, probability, measurement, algebra, geometry, and problem solving.

*Note: Math 10F occurs every day for both semesters, and is offered in conjunction with: Math 15F (designed to provide math learners with additional review and supports prior to engaging in their required Math 10F course), and Life/Work Exploration 15S for a total of 2 credits*

### **Grade 10**

#### **MATHEMATICS ESSENTIAL - MA20S**

Grade 10 Mathematics Essential topics emphasize consumer applications, problem solving, decision-making, and spatial sense. Students will learn mathematical concepts and skills encountered in everyday life in a technological society both individually and in small groups. Essential Math is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields.

#### **MATHEMATICS INTRODUCTION TO APPLIED AND PRE-CALCULUS - MA20SPA**

The Grade 10 introduction to Applied and Pre-Calculus is intended for students considering post-secondary studies that require a math pre-requisite. Students will engage in experiments and activities that include the use of technology, problem solving, mental mathematics and theoretical mathematics to promote the development of mathematical skills. The topics studied form the foundation for topics to be studied in both grade 11 Applied and Pre-Calculus Mathematics.

### **Grade 11**

#### **MATHEMATICS APPLIED - MA30SA**

One of two math programs available for students planning to pursue post-secondary studies in mathematics and science. It is intended for students whose post-secondary studies do not require the study of theoretical calculus. The math studied promotes the learning of problem-solving skills, number skills and geometry skills as they relate to the world around us. Topics include:

- Quadratic Functions, Proofs, Statistics, Systems of Inequalities, Mathematics Research Project, Trigonometry

### **MATHEMATICS ESSENTIAL - MA30S**

This course is intended for students whose post-secondary planning does not include a focus on mathematics and science related fields. This is a one credit course comprising two half credits, each emphasizing consumer applications, problem-solving and decision making, as well as number sense and spatial sense.

Students are expected to work both individually and in small groups on mathematical concepts and skills encountered and used in a technological society.

Topics include:

- Analysis of Games and Numbers
- Interest and Credit
- 3-D Geometry
- Statistics
- Managing Money
- Relations and Patterns
- Trigonometry
- Design Model

### **MATHEMATICS PRE-CALCULUS - MA30SP**

This course is designed for students who intend to study calculus and related mathematics as part of a post-secondary education. The course focuses on a high-level of theoretical mathematics with an emphasis on problem solving and mental mathematics, supported by cumulative exercises and testing. Students are required to learn mathematical concepts through practice and regular homework.

Topics include:

- Quadratic Equations and Functions
- Radicals & Rational Equations and Expressions
- Sequences
- Inequalities
- Algebra
- Trigonometry
- Relations and Functions

### **Grade 12**

#### **MATHEMATICS APPLIED - MA40SA**

Mathematics Applied is context driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us. This course is intended for students considering post-secondary studies that do not require a study of theoretical calculus.

#### **MATHEMATICS ESSENTIAL - MA40S**

Grade 12 essential Mathematics (40S) is a one-credit course consisting of two half-credits each emphasizing consumer applications, problem solving, decision-making, and spatial sense. This course is intended for students whose post-secondary planning does not include a focus on mathematics and science-related fields.

#### **MATHEMATICS PRE-CALCULUS - MA40SP**

This course is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in Grade 11 Pre-calculus Mathematics and provides background knowledge and skills for the study of calculus in post-secondary institutions.

## **SCIENCE**

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### **SCIENCE FOUNDATION - SC10F**

SC10F is divided into four units: Reproduction, Atoms and Elements, Nature of Electricity, and Exploring the Universe. The Reproduction unit involves the study of human reproduction and genetics. Atoms and Elements is an introduction to the basics of chemistry. The Nature of Electricity unit has students investigating static and current electricity. Exploring the Universe leads students through an exploration of the universe and the study of space science and technology.

## **SCIENCE FOUNDATION - SC20F**

The SC20F program is composed of four major units: Dynamics of Ecosystems, Chemistry in Action, In Motion, and Weather Dynamics. Dynamics of Ecosystems has students examining ecosystem relationships, population dynamics, biodiversity and how human activities affect ecosystems. The Chemistry in Action unit is a continuation from SC10F's Atoms and Elements. Students will study chemical reactions, nomenclature basics, principles of acid-base chemistry, and the effects of chemical use in the environment. Basic kinematics along with the concepts of inertia, force, impulse, and momentum are looked at during the In Motion unit. The complex relationships that influence weather and climate are pursued in the Weather Dynamics unit including the impact of human activities on our global climate.

## **SOCIAL STUDIES**

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### **CANADA IN THE CONTEMPORARY WORLD - SS10F**

This course investigates how government functions, how people immigrate to Canada and become citizens, and what makes Canadians unique. In addition, this course examines basic Canadian geography, and global issues including: poverty, working conditions in the developing world, war, and environmental challenges. In the examination of each issue, the course will discuss how students, as Canadians, can actively respond to these issues.

### **GEOGRAPHIC ISSUES OF THE 21<sup>ST</sup> CENTURY - GE20F**

The focus of this course is the environmental and political issues in geography that impact our lives and those of future generations within the context of North America. Major topics of discussion will include: the impact of energy use on the planet, sustainable development, issues related to trade and industry, food production and related issues, population growth and city planning, use of Global Positioning Systems (GPS) and Geographic Information Systems (GIS).

### **CANADIAN HISTORY - HI30F**

This course engages students in historical inquiry and asking essential questions to focus on Canada from pre-contact times until the present. Canadian History emphasizes important skills and concepts in historical thinking and focuses on five major themes: First Nations, Métis and Inuit Peoples, French-English Duality, Identity, Diversity and Citizenship, Governance and Economics, and Canada and the World.

## **PHYSICAL EDUCATION/HEALTH EDUCATION**

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### **PHYSICAL EDUCATION/HEALTH EDUCATION - PE10F**

The intent of the 10F course is to help students develop the necessary skills for lifelong physical activity and provide students with the necessary knowledge to assist them in making appropriate decisions regarding health issues facing youth. The skills acquired in this course are based on the fourteen basic movement skills and the five personal and social management skills in a combined and integrated approach blending physical education and health education.

### **FEMALE-IDENTIFYING FITNESS - PE10FF**

This course offers an inclusive environment that is open to all female-identifying students and will be taught by a female instructor. It will concentrate on and encourage personal fitness, wellness, and healthy lifestyle practices. Students in Female Fitness will have some choice of a variety of physical activities with a focus on lifetime activities and enjoyment. This course will also give students the opportunity to develop their own personal fitness goals and learn the skills to be successful at them. This option is the same credit as the above PE10F and will follow the same health topics.

### **PHYSICAL EDUCATION/HEALTH EDUCATION - PE20F**

The intent of the 20F course is to help Senior Years students develop the necessary skills for lifelong physical activity participation and provide students with the necessary knowledge to assist them in making appropriate decisions regarding health issues facing youth. Topics such as fitness management, nutrition, substance use education and prevention and a myriad of physical and health related skills are taught under the five General Learning Outcomes of Movement, Fitness, Safety, Personal and Social Management and Healthy Lifestyle practices.

### **FEMALE-IDENTIFYING FITNESS – PE20FF**

This course offers an inclusive environment that is open to all female-identifying students and will be taught by a female instructor. It will concentrate on and encourage personal fitness, wellness, and healthy lifestyle practices. Students in Female Fitness will have some choice of a variety of physical activities with a focus on lifetime activities and enjoyment. This course will also give students the opportunity to develop their own personal fitness goals and learn the skills to be successful at them. This option is the same credit as the above PE20F and will follow the same health topics.

### **PHYSICAL EDUCATION/HEALTH EDUCATION - PE30F**

This course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them and engage in active lifestyles into their futures. Students will study topics related to fitness management, mental health, substance use education and prevention, and the social impact of sport. The focus of this content will be on health and personal planning. Students will be graded in the course with a Complete (CO) or Incomplete (IN) designation.

### **FEMALE-IDENTIFYING FITNESS – PE30FF**

This course offers an inclusive environment that is open to all female-identifying students and will be taught by a female instructor. It will concentrate on and encourage personal fitness, wellness, and healthy lifestyle practices. Students in Female Fitness will have some choice of a variety of physical activities with a focus on lifetime activities and enjoyment. This course will also give students the opportunity to develop their own personal fitness goals and learn the skills to be successful at them. This option is the same credit as the above PE30F and will follow the same health topics. Students will be graded in the course with a Complete (CO) or Incomplete (IN) designation.

### **PHYSICAL EDUCATION - PE40F**

This course is designed to help youth take greater ownership of their own physical fitness, to encourage them to seek out activities that interest them and engage in active lifestyles in the future. Students will study topics related to fitness management, nutrition, healthy relationships, social/emotional health, and personal development. The focus of this content will be on health and personal planning. Students will be graded in the course with a Complete (CO) or Incomplete (IN) designation.

### **FEMALE-IDENTIFYING FITNESS – PE40FF**

This course offers an inclusive environment that is open to all female-identifying students and will be taught by a female instructor. It will concentrate on and encourage personal fitness, wellness, and healthy lifestyle practices. Students in Female Fitness will have some choice of a variety of physical activities with a focus on lifetime activities and enjoyment. This course will also give students the opportunity to develop their own personal fitness goals and learn the skills to be successful at them. This option is the same credit as the above PE40F and will follow the same health topics. Students will be graded in the course with a Complete (CO) or Incomplete (IN) designation.

## **OPTIONAL COURSES**

### **APPLIED COMMERCE EDUCATION - BUSINESS STUDIES**

Students who complete eight (8) credits offered in the applied commerce education stream during their high school years will be eligible to receive an Applied Commerce Education Diploma on top of their Manitoba Academic Diploma.

#### **BUSINESS INNOVATIONS – BN10S**

Business Innovations is an introductory course that allows students to sample the various strands within the applied commerce education program. The course offers students the opportunity to explore commerce-related topics, such as economics, entrepreneurship, business, marketing, technology, and finance. Throughout the course, students will apply the concepts and strategies they learn to a variety of creative business projects or simulations. It is the suggested introduction to all the other courses offered in the applied commerce education subject area.



## **PERSONAL FINANCE 20S**

Personal Finance focuses on developing fundamental financial literacy skills, including the value of money, basic economics, budgeting, saving, banking services, credit and investing. This is especially relevant to high school students since they are entering the workforce and are considering future purchases that require financial planning, such as buying a car, travelling, or pursuing post-secondary education. Since financial literacy is a life skill, this course is a good option for all students regardless of grade.

## **CREATIVE PROMOTIONS - CP20S**

Creative Promotions helps students develop an understanding of promotional communication from both a theoretical and a practical approach. The course focuses on advertising strategies, direct marketing, personal selling, sales promotions, and public relations. Students will apply these concepts and their creativity to design a variety of promotional and advertising materials, including promoting St. James Collegiate Institute and Jimmie's Junction. Creative Promotions is designed for students who are looking to expand their business knowledge regarding communicating effectively and creatively.

## **ACCOUNTING ESSENTIALS 30S**

Accounting Essentials helps students gain an understanding of basic accounting. With an emphasis on accounting for a service business, students will apply their knowledge and skills to complete the stages of the accounting cycle. Accounting Essentials provides the fundamentals of accounting and is a good choice for students who plan to further their finance studies in Accounting Systems 40S. Students interested in pursuing post-secondary studies in any business discipline will benefit considerably by completing this course.

## **ACCOUNTING SYSTEMS 40S**

Accounting Systems is an extension of Accounting Essentials 30S. It includes an introduction to financial analysis and corporate accounting. With an emphasis on accounting for a merchandising business, students will apply their knowledge and skills to complete the stages of the accounting cycle. The skills acquired in this course are useful when pursuing a career in business or accounting and are essential for everyday life.

## **VENTURE DEVELOPMENT 30S**

Venture development focuses on planning, creating, implementing, evaluating, and growing actual business ventures that will operate within St. James Collegiate Institute. Venture Development is designed for students interested in starting their own businesses and in furthering their knowledge of business ownership and management principles.

## **RETAILING PERSPECTIVES 30S**

Retailing Perspectives helps students gain an understanding of retailing from both a theoretical and a practical approach. This course provides insight into the various types of retail establishments and forms of ownership. It emphasizes the retailing operations of both a physical and an online environment. Retailing Perspectives focuses on the financially sustainable strategies retailers use to appeal to consumers.

Students will gain practical experience by working in Jimmie's Junction. Students will receive training in the day-to-day operations of a retail store and develop skills that can translate into the different jobs or careers students will take on in the future.

This course is designed for students interested in managing or owning their own retail establishment. It is, however, relevant to all students, since, as consumers, they experience retailing as part of their daily lives.

## **BUSINESS MANAGEMENT 40S**

Business Management focuses on developing planning, leading, organizing, controlling, and staffing skills. Students will study various management styles and participate in activities related to human resources, inventory, finance, and project management. This course is designed for students interested in furthering their knowledge of management strategies used in various settings and furthering their knowledge of business ownership.

Students will put their learning into practice in Jimmie's Junction. Management students will take on management roles within the school store, including ordering merchandise, training employees, and planning for the store's overall success.

## TOPICS AND TRENDS IN BUSINESS TT40S

Topics and Trends in Business uses an inquiry-based learning model to allow students to explore current and/or emerging topics, trends, and opportunities related to business at a local, national, or global level. Students will design, recommend, and/or implement an action plan based on their inquiry findings. This course is designed to allow students to focus on issues about which they are passionate.

## BAND, DANCE, AND GUITAR

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Although the development of musical skills on a woodwind, brass, or percussion instrument is the primary focus of the Band program at St. James Collegiate Institute, there are many equally important areas that are covered in all Concert Band (MB) and Jazz Band (MJ) courses. Ensemble (teamwork) skills, creative expression, self-discipline, and self-awareness will be developed through practice, rehearsal, and performance.

### CONCERT BAND (MB) and JAZZ BAND (MJ)

In Concert Band and Jazz Band the emphasis is placed on performance and consistent participation. Students will be exposed to a wide variety of musical styles and performance opportunities. Both courses are offered every second day for the whole year. Students wishing to take Jazz Band (MJ) will also be registered in the corresponding Concert Band (MB) course.

### CONCERT BAND - MB10SS

It is recommended that students entering Band 10G have prior experience playing a woodwind, brass, or percussion instrument. If a student does not have previous experience or meet grade level expectations, the teacher may recommend private lessons. Students registered for Band 10G are part of the grade 9 Concert Band. Students will attend both full Band classes and smaller sectional classes as required by the director. Emphasis will be placed on skill development and music theory will be covered as it arises in the repertoire. Participation in all performance events such as concerts, festivals, workshops, and School Division proceedings is a required part of this course.

### CONCERT BAND - MB20SS

Students registered for Band 20G are part of the grade 10 Concert Band. Students will attend both full Band classes and smaller sectional classes as required by the director. Emphasis will be placed on skill development and music theory will be covered as it arises in the repertoire. Participation in all performance events such as concerts, festivals, workshops, and School Division proceedings is a required part of this course.

### CONCERT BAND - MB30SS

Students in grade 11 who register for Band are part of the Symphonic Band or Senior Concert Band. Students will attend both full band classes and smaller sectional classes as required by the director. Emphasis will be placed on skill development and music theory will be covered as it arises in the repertoire. Participation in all performance events such as concerts, festivals, workshops, and School Division proceedings is a required part of this course.

### CONCERT BAND - MB40SS

Students in grade 12 who register for Band are part of the Symphonic Band or Senior Concert Band. Students will attend both full Band classes and smaller sectional classes as required by the director. Emphasis will be placed on skill development and music theory will be covered as it arises in the repertoire. MB40S students will be required to participate in one or two small ensemble units to enhance their musical understanding and ensemble skills. Participation in all performance events such as concerts, festivals, workshops, and School Division proceedings is a required part of this course.

### JAZZ BAND - MJ30SS, MJ40SS

These courses are designed for interested students who have reached a proficient level of achievement on their Band instruments. Students enrolled in these courses will study various forms of jazz, swing, pop, Latin, funk, and rock music. These courses will involve group practices and sectional rehearsals, with an increased emphasis on improvisation, jazz articulation, phrasing, and interpretation. All students in the Jazz Band (MJ) must be registered in the corresponding Concert Band (MB). Participation in all performance events such as concerts, festivals, workshops, and School Division proceedings is a required part of this course.

### **DANCE – DA10SS, DA20SS, DA30SS, DA40SS**

No previous dance experience is required. Various forms and genres of dance will be explored. There will be creative choreography and in-class performance elements in this course, but other forms of assessment will also be considered. This is a multi-grade course, which allows for inter-grade connections and a collaborative learning environment.

### **GRADE 9, 10, 11 AND 12 GUITAR - MG10SS, MG20SS, MG30SS, and MG40SS**

This course is designed for students who have an interest in learning and playing contemporary rock music. Students will learn to play or improve their playing of lead guitar, rhythm guitar, bass guitar, drums, keyboards, vocals, or a combination of these. Four credits can be obtained in high school, one in each of the grades 9 through 12. All levels of student ability will be accepted into this course, from beginners to advanced players. The first half of the semester will focus on individual study of the acoustic guitar.

Students will learn to properly tune their instrument, gain knowledge of the notes of the guitar neck, major and minor chords, rhythm and strumming patterns, and the application of these skills within the context of a song. During the second half of the semester, students will have the opportunity to explore a variety of instruments.

Student groups will be formed based on ability levels and musical interests. Each group will select songs to study and will work together to practice and perform their chosen songs. It is recommended that instrumentalists have concurrent registration in Band, as students would benefit from understanding how to read and discuss music.

## **COMPUTER TECHNOLOGY – ICT COURSES**

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### **GRADE 9 COMPUTER TECHNOLOGY - IT15FA + IT15FB**

This course acts as a stepping-stone to the more advanced courses in later grades. Students will experiment with various communication technologies including:

- Creating digital presentations
- Basic webpage construction
- Digital photo enhancement Photoshop
- Graphic creation
- Video/Audio editing, recording, and production
- Intro to computer animation

*Note: Students will be registered for the two half credit courses listed above*

## **DRAMA - THEATRE**

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### **Grade 9 DRAMA - DR10SS**

Drama 10S is a practical course in personal and teamwork skills. Students will be expected to participate in-group, duo, and occasional solo activities. Evaluation will be based on a combination of strategies based on process, progress (emphasizing participation), assessed assignment mark (presentation grade), self-evaluation, and other notations.

### **Grade 10 DRAMA - DR20SS**

This course is an extension of the Drama 10S program.

### **Grade 11 DRAMA - DR30SS**

This course is an extension of the Drama 20S program.

### **Grade 12 DRAMA - DR40SS**

This course is an extension of the Drama 30S program.

## **MUSICAL THEATRE - MT10SS, MT20SS, MT30SS, MT40SS**

Musical Theatre is intended for students who are interested in studying and performing in our annual musical theatre production. Students will participate in one of two components of the musical theatre course:

- Performance: Through drama, dance and choral singing, students will develop an appreciation for and competency in this unique and hybrid art form. Students may also study and play music if required for the musical theatre production.
- Production: Students participate in technical and production components of musical theatre.

## **FRENCH**

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### **FRENCH FOUNDATIONS - FR10F**

Basic French courses are taught in French. Students will participate in a variety of activities to further their linguistic competence. Students will have the opportunity to begin practicing their reading, writing, and communication skills.

### **FRENCH FOUNDATIONS - FR20F**

This course follows the same objectives as 10F. Students will find that the course material continues to challenge their French language skills. A communicative and experiential approach to the French language is emphasized.

### **FRENCH FOUNDATIONS - FR30S**

This course is a continuation of French 20F with emphasis on reading, writing, and communication skills, as well as a cultural component.

### **FRENCH FOUNDATIONS - FR40S**

This course is a continuation of French 30S with emphasis on reading, writing, and speaking skills. Fluency and comprehension will be further developed through varied enrichment activities.

## **GRAPHIC ARTS & TECHNOLOGY**

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### **GRAPHIC COMMUNICATIONS TECHNOLOGY - GT10G**

This course is an introduction to graphic design and communications through print and digital media. Students will develop skills in document layout by creating ads, business cards, and digital drawings in 2D and 3D environments using Apple's Pages, Adobe InDesign, Adobe Illustrator and Google Sketch-Up. A major part of the course is devoted to developing digital darkroom skills in Adobe Photoshop and foundations of digital photography using various digital cameras.

### **GRAPHIC COMMUNICATIONS TECHNOLOGY – GT20G**

This course is the continuation of Graphic Communications GT10G. Students will develop skills in portrait, event, and sport photography using various digital cameras. Digital darkroom techniques will be focused on portrait retouching in Adobe Photoshop. Vector drawings in Adobe Illustrator will be integrated with raster images in Adobe Photoshop. Students will also expand their multi-page document layout skills and design techniques in Adobe InDesign. Further development of advertising skills will take place through the design of brochures, posters, and flyers. The video project will include Chroma key (green screen) editing and basic compositing techniques in a non-linear video editing software. Students will also expand on 2D and 3D drawing techniques in Google Sketch-Up.

### **GRAPHIC COMMUNICATIONS TECHNOLOGY - GT30G**

This course is the continuation of Graphic Communications 20G. Students enrolling in this course must have credit in Graphic Communications 20G or equivalent. Students will develop skills in advanced vector drawing, combining vector and bitmap images, and creating art using Adobe Photoshop and Illustrator. Photography and video projects will be combined with photo/video journalism to create documentaries. Video editing skills will be expanded to compositing with multiple video/audio tracks and importing various graphic formats into a non-linear video editing software. Students will also work with 2D web animation in Adobe Flash, explore graphic output for print in both aqueous and digital formats, as well as learn about heat transfers for T-shirts and pressure sensitive vinyl (decals).

## **GRAPHIC COMMUNICATIONS TECHNOLOGY – GT40G**

This course is the continuation of Graphic Communications GT30G. Students enrolling in GT40G must have credit in Graphic Communications GT30G or equivalent. This course will be diversified allowing students to pursue their interest in a specific area of graphic communications with a major project in one of the following:

- Interactive video production for the Internet
- Advertising through print documents
- Photo and/or video journalism
- Architectural design and modeling with 3D graphics

Students will also expand their knowledge of creating artwork with Adobe Photoshop and Illustrator. Interactive web content will be created using Adobe Dreamweaver and action script in Adobe Flash.

## **HOCKEY CANADA SKILLS ACADEMY** (\*additional fee required)

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The philosophy of the St. James Assiniboia Hockey Academy is to provide students different paths to achieve academic and personal success. The program is designed to allow students the opportunity to further develop their hockey skills while not altering or sacrificing the provincial curriculum goals or expectations. The goals of the St. James Assiniboia Hockey Academy are consistent with other officially licensed HCSA franchises from across Canada, and include:

- Development of fundamentally sound hockey skills in individuals regardless of their skill level
- Development of confidence, leadership, and a positive attitude toward self and others
- Building of life skills such as commitment, dedication, accountability, and teamwork
- Mentorship, coaching and development of personal fitness program
- Increasing academic achievement through involvement in a school athletic program
- Introduction of new players into the Minor Hockey System

The program is comprised of two components. On-ice skill development includes skating stride, passing, and receiving, shooting, simulation, and development of game tactics. Off-ice Development places emphasis on improving the overall fitness level of the players, as well as preparing their mind and body for optimal performance and lifelong healthy living.

### **HOCKEY CANADA SKILLS ACADEMY - HA11G**

The course is comprised of two components. On-ice skill development includes skating stride, passing and receiving, shooting, simulation and development of game tactics. Off-ice Development places emphasis on improving the overall fitness level of the students and includes components such as, Respect in Sport, Floorball, Sport Psychology, Nutrition, and Video Analysis of Skills. St. James Assiniboia Hockey Academy is designed for hockey players wishing to improve their skills regardless of their current skill level.

### **HOCKEY CANADA SKILLS ACADEMY - HA21G**

This course is a continuation of HA11G. On-ice skill development builds on skills taught in HA11G. Off-ice development continues to emphasize the overall fitness level of the players and includes acquiring the IP Coaching Level, Floorball, Sport Psych, Nutrition and Video Analysis of Skills. It is designed for hockey players wishing to improve their skills regardless of current skill level.

### **HOCKEY CANADA SKILLS ACADEMY - HA31G**

This course is a continuation of HA21G. On-ice skill development continues to emphasize skill development and builds on skills taught in HA21G. Off-ice development continues to emphasize the overall fitness level of players and includes: Coach Certification, Floorball, Volunteering to Coach, Sport Psych, Nutrition and Video Analysis of Skills. The course will be offering a coach/mentorship program along with an expectation of students developing a personal fitness program for on-ice conditioning.

### **HOCKEY CANADA SKILLS ACADEMY - HA41G**

The 41G course builds on the previous St. James Hockey Academy courses where both on and off-ice individual skill development continues to be the focus. On the ice, players learn to execute individual skills as well as advanced 3 vs 3 team tactics. In the off-ice program, students are provided with Referee Training, Floorball, Coaching within the Academy, Sport Psych, Nutrition, Video Analysis of Skills, Agility and Strength Training.

# HUMAN ECOLOGY

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## **FAMILY STUDIES - FA20S**

This course is designed for students to gain theoretical aspects of child development from pre-natal to pre-school as well as gaining practical skills in overseeing and working with children. Practical experience will be gained in a childcare setting and using the baby simulator.

## **FAMILY STUDIES - FA30S**

This course is designed for students to gain theoretical aspects of child development from pre-school to teen, as well as gaining practical skills in overseeing and working with children. Practical experience will be gained in a childcare setting and using the baby simulator.

## **FAMILY STUDIES - FA40S**

This course focuses on the individual, the family, society and the factors that affect quality of life. Units of study include the family foundation, strengthening relationships, managing within sight, supporting family and friends, growing as a person, moving towards independence, and forming your own family. Practical experience will be gained in an elderly care setting.

## **FOOD AND NUTRITION - FN20G**

The students state, explain, and apply knowledge of concepts in a safe and responsible manner throughout the learning period. The students show evidence of life skills such as teamwork, problem solving, critical thinking, creativity, decision making and performance skills. They apply, reflect, and improve learning on nutrients, digestions, food groups, nutrition for different ages and stages, through practice that is developed, assessed and improved as learning progresses.

## **FOOD AND NUTRITION - FN30S**

The students communicate and apply knowledge of concepts in a safe and responsible manner throughout the learning period as they review kitchen skills. They also develop a practiced method that helps them to design and create products that meet specific criteria, that could be used at home, and other institutions in the future. These include safe food supply, review of nutrients, cultural food choices, diet and diseases and protein foods.

## **FOOD AND NUTRITION - FN40S**

The students communicate and apply knowledge of concepts in a safe and responsible manner throughout the entire learning period. They improve their appreciation for global foods and world nutrition, and also demonstrate problem solving, teamwork as well as individual performance, decision making, and creativity. They research and present evidence in different topics they have learned about in the previous years and consistently engage in creating well made products. These include making and decorating cakes, making bread, making beverages and, individually demonstrating the different cooking methods.

# HUMANITIES – ENGLISH LANGUAGE ARTS & SOCIAL STUDIES

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## **AMERICAN HISTORY - HI20G**

This course deals with the influence of the USA on Canadian society. Students will also get the chance to examine American society, its institutions, leaders, its penchant for constant conflict, and the evolution of the United States as a world leader. Students will gain a greater understanding of our massive neighbours to the south while improving their reading, writing research and critical thinking skills, all of which will be useful when they study Canadian History and English in Grade 10-12.

## **HISTORY OF WESTERN CIVILIZATION - HI40SW**

Topics of study will focus on events that have impacted our society today. These will include an in-depth examination of Greek and Roman History, the founding of Western Religions, the Renaissance and Reformation, the French Revolution, dictators like Mussolini, Hitler and major events of the 20th Century including WWI and WWII.

## **GLOBAL ISSUES: CITIZENSHIP AND SUSTAINABILITY – GI40S**

Students examine the social, political, environmental, and economic impact of a variety of current and emerging world issues such as media awareness, human trafficking, genocide, sustainability, and gender issues. Students will also consider how every individual is connected to global issues. Part of their study will focus on quality of life locally, nationally, and globally. Students will also choose a global issue and act in their school or wider community. This course was formerly known as World Issues.

## **LAW - LW40S**

This course provides students with an overview of the Canadian legal system. Students will discuss and examine court cases and current events of a legal nature, thereby building critical thinking skills. This is an excellent course for those who are considering a career in law enforcement, criminology, or the legal profession. Students visit the Law Courts building for a morning tour of the building and have an opportunity to sit in on a real court case.

## **LIFE/WORK BUILDING & LIFE/WORK TRANSITIONING - CAREER DEVELOPMENT – LF30S & LF40S**

Students can register for this course at any level to explore potential occupations and to demonstrate employability skills, essential skills, and specific occupational skills through work experience. Canada is on the verge of a workforce shortage and will create many new job opportunities. Students will be able to explore the possibilities of future careers while earning credits for graduation. This course is flexible and adaptable to the needs of the student, similar to the qualities individuals will need to succeed beyond high school.

## **FIRST NATIONS, MÉTIS, AND INUIT STUDIES – FM40S**

First Nations, Métis & Inuit Studies (FM40S) addresses the contemporary lives of Indigenous peoples in Canada. This course will examine the recent history of Indigenous peoples' efforts to protect their rights, freedoms, culture, and self-determination. It will also examine a variety of current topics and issues that are relevant to Indigenous and Canadian society. These topics will also be compared to the lives of Indigenous peoples internationally to better understand the global context of these issues.

## **TREATIES AND THE TREATY RELATIONSHIP – TR40S**

Treaties and the Treaty Relationship consolidates previous social studies courses, along with Treaty Education Initiative learning outcomes, and helps students develop competencies as citizens who are mindful of their place in society and who are willing to work together toward a reconciliatory future. The course is based on the principles of active democratic citizenship while making a noted effort to embed First Nations' perspectives, worldviews, traditional teachings, and ways of knowing, being, and doing.

# **MATH**

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## **INTRODUCTION TO CALCULUS AND ADVANCED MATHEMATICS – AM40S**

This is an introductory course that will cover higher level math topics from the first-year university courses Calculus and Advanced Topics in Math. Topics include limits, derivatives, applications of derivatives, integrals, complex numbers, matrices, statistics, and conic sections. This course is ideal for any students who have enrolled in MA40SP and who plan to enroll in university facilities such as Agriculture & Food Sciences, Arts (Economics), Engineering, Management, Pharmacy, Science (Mathematics, Actuary, Biochemistry, Chemistry, Computer Science, Ecology, Zoology, Statistics).

# **SCIENCE**

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## **APPLIED HORTICULTURE – HORT30S**

Learn the secret of growing plants through this hands-on course. Topics include plant tissues and functions, types of plants, uses of plants, pest/weed control and garden design. The classroom greenhouse, potting room, and schoolyard are utilized in our study. Learn the secrets of potting, transplanting and using cuttings to make more plants. Field trips, tours, and speakers will enhance learning in the program.

## **BIOLOGY - BI30S**

Students in BI30S will study the Human Body with respect to homeostasis, digestion and nutrition, the respiratory system, excretion and waste management, and conclude with the immune and nervous systems. Students will also look at how

technology has affected the wellness of the human body and resulting social issues.

### **BIOLOGY - BI40S**

In this course, students are exposed to foundation concepts regarding the biology of the world around us. The interdependence of life is a recurring theme in the course work. Students are expected to integrate information gained in previous units and apply that information throughout the semester. Topics of study include Ecology, Biological Diversity and Genetics. Specific emphasis will be placed on the use of Biotechnology including genetically modified food, forensics, recombinant DNA technology, Human Genome Project and Gene Therapy.

### **CHEMISTRY - CH30S**

Using the kinetic molecular theory, students will look at physical properties of matter, including phase changes and vaporization. Students will also be studying physical characteristics of gases, gas laws, chemical reactions, stoichiometry, solutions and their physical characteristics, and organic chemistry including IUPAC nomenclature. Included in their studies will be a look at how chemistry has affected our quality of life.

### **CHEMISTRY - CH40S**

Chemistry 40S students will study five units consisting of Kinetics, Chemical Equilibrium, Acid-Base Equilibrium, Solubility Equilibrium and Oxidation-Reduction. Within these units, concepts such as factors affecting reaction rates, Le Chatelier's Principle, pH, buffers and electrochemical cells are a few that will be addressed. Throughout the program, students will gain an understanding of observation and inference in this experimental science.

### **PHYSICS - PH30S**

The PH30S course is divided into four major areas: Waves, Nature of Light, Mechanics and Fields. Some of the concepts studied in waves are the physical characteristics of waves, superposition of waves and wave interference. The concept of waves continues into the Nature of Light where light is looked at in terms of its wave characteristics and particle characteristics. Carrying on from the SC20F program, students will continue the study of kinematics during the Mechanics unit. To complete an overview of basic physics, students will address the concept of fields with respect to gravitational, magnetic, electric and electromagnetic fields. Included in their studies will be a look at how the relationship between physics and science and technology has influenced our quality of life.

### **PHYSICS 40S - PH40S**

Students in this very comprehensive course will study four units consisting of Mechanics, Fields, Electricity and Medical Physics. Students will have been exposed to the elementary concepts of these units in PH30S and apply them to such new concepts as projectile motion, circular motion, work and energy, low Earth orbits, electric circuits, and radiation. Throughout the program, students will gain an understanding of how science, technology and the environment are related in a physical sense.

### **PSYCHOLOGY 40S - PY40S**

Psychology is the scientific study of behaviour and mental processes. It uses the scientific method to discover ways of understanding the complexities of human thought and behavior, as well as differences among people. Studying psychology gives students lifelong skills such as dealing with issues proactively, solving problems, learning, and nurturing healthy relationships. It helps students understand themselves, and deal with issues in their own lives such as inner conflicts, relationships with parents and peers, and intimacy. It also helps students understand societal problems like addiction, violence, and prejudice. This course exposes students to the major topics found in the field of psychology. It also emphasizes the issues that are of direct interest and relevance to students completing high school.

### **CURRENT TOPICS IN SCIENCE – SC30S**

Students have a choice in the topics which serve as the organizing themes in this course based on current issues integrating the areas of biology, chemistry, and physics. Inquiry based learning and critical thinking is developed through the study of topics such as forensics, science of music, sports science, and design and construction. Students engage in many hands-on activities and applications of scientific method from which the concepts and facts naturally emerge.



### ENVIRONMENTAL TOPICS IN SCIENCE - SC230S

This course is designed for students who are interested in environmental science and sustainability. Students will have an opportunity to explore a variety of environmental science topics such as forestry, soils, aquatics, and wildlife. The focus will be on learning more about those topics, both locally and around the world, as well as the sustainability issues found in each topic. Hands on labs, both inside and outside the classroom will be utilized in our study.

### INTERDISCIPLINARY TOPICS IN SCIENCE - SC40S

This course offers a concentration on topics in society, science, and the environment such as the human endeavor in space, learning to code, infectious diseases, and nutrition. These serve as organizing themes for the course in which scientific knowledge and its implications are presented in a unified manner, integrating all areas of science.

## PHYSICAL EDUCATION/HEALTH EDUCATION

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### EXERCISE SCIENCE - EXERSCI40S

This course is designed to provide an in-depth study into the science of human performance. The human body's physiological systems are a complex framework between the brain and nervous system. This course gives students a clear picture of how those physiological systems work together to maximize human performance. Students will use their knowledge of various aspects of exercise science such as biomechanics, kinesiology, fitness testing, injury treatment and prevention and nutrition to develop a greater understanding of how the interaction between brain and nervous system leads to mastery in high performance activities.

### SUSTAINABLE WILDERNESS EDUCATION – PE31G *(\*additional fee required)*

By providing opportunities for education, guidance and self-reflection, the Sustainable Wilderness Education program is committed to developing passionate and skilled individuals who care about making a difference for sustainable outdoor environments. Through developing a deep appreciation for the Earth and the importance of sustainability, students will attain the skills and attitudes needed to enrich both their and others' lives. The aim of the Sustainable Wilderness Education course is to allow students to develop the skills and attitudes necessary to appreciate, enjoy, feel comfortable and if necessary, survive in the Canadian outdoors. This course will introduce students to outdoor activities such as ice fishing, fat tire biking, cross country skiing, snowshoeing, archery, hiking, rock climbing, camping, and canoeing. While participating in such activities, students will also gain knowledge around wilderness survival including shelter building, navigation, identifying edible and non-edible plants, ice safety, fire building, knot tying, and injury prevention in the outdoors.

### RECREATIONAL MANAGEMENT AND ATHLETIC LEADERSHIP – PE41G

This elective course is designed to explore and apply leadership skills within the school and the community. Both practical and theoretical aspects will be included. The theory portion will include: principles of leadership, tournament organization, care of athletic injuries, sociology of sport, theory of coaching, first aid & CPR, Human Anatomy, and Exercise Physiology. The practical component will include areas such as: Coaching, planning, and organizing tournaments, officiating, and leadership roles in the Intramural Program.

## VISUAL ARTS

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### VISUAL ART - VA10SS

This program is designed to expand learning in the visual arts, beyond skill development. It is designed to provide students with opportunities to identify, separate, relate, analyze, evaluate, and express ideas and feelings with visual images. The program will introduce students to the "art inquiry process," where there is no pre-determined outcome to an idea. Each of the units involves an idea that provides opportunities for students to explore some aspect of their personal world, their natural or social environment, or some other cultural/ historical form of expression related to the idea. Maintaining an Idea Journal/Sketchbook is integral in the course.

## **VISUAL ART - VA20SS**

The studio program in AR20G is designed to expand learning in the visual arts by taking into account various areas of thinking and learning in the arts, including criticism and appreciation, media and technique, and history and culture. Ideas are central to students' artistic expression. Through the "art inquiry process," students are encouraged to express their own reaction to ideas, and to examine the ideas expressed by others. Maintaining an Idea Journal/Sketchbook is an integral part of the course.

## **VISUAL ART - VA30SS**

This course further develops and refines those skills learned in Art 20G. The practical assignments in this course will reflect the greater flexibility the student possesses in terms of exercising options on the basis of expressed personal preferences. Thus, while there will still be certain assignments, which must be completed by all students, individual projects will come to the forefront, utilizing the art inquiry process. Maintaining an Idea Journal/Sketchbook is an integral part of the course.

## **VISUAL ART - VA40SS**

This course is the natural culmination of the study undertaken in the previous courses. Students will have greater responsibility for the assignments completed, in the sense that they will decide upon the ideas they wish to study in greater depth. While students will be required to demonstrate skills which they have learned, a heavy emphasis will be placed on originality as opposed to mere competence. The intent of the program is to see students' progress over the four years from a teacher-directed to a student-directed program. Maintaining an Idea Journal/Sketchbook is an integral part of the course.

# **TECHNICAL AND VOCATIONAL PROGRAMS**

## **AUTOBODY**

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### **GRADE 9**

#### **EXPLORATION OF COLLISION REPAIR REFINISHING – ABR10S**

This is a course intended for students interested in sampling the trade. The emphasis is on hands-on learning activities.

Students will learn to follow safety procedures, select, and use common hand and power tools, operate a metal inert gas (MIG) welder on sheet metal, repair minor damage, and prepare panels for painting.

### **GRADE 10**

#### **INTRODUCTORY COLLISION REPAIR REFINISHING – ABR20S**

In this entry level course, the emphasis is on hands on learning activities. Students will learn to follow safety procedures, select, and use hand and power tools and abrasives, operate a metal inert gas (MIG) welder on sheet metal, repair minor damage, apply body filler, prepare panels for painting and detail vehicles.

### **GRADE 11**

#### **FUNDAMENTALS OF COLLISION REPAIR REFINISHING – ABR30SA**

In this course students will learn about vehicle construction, and the use of materials, fasteners, and adhesives. They will apply measuring and estimating skills to restore vehicles to original manufacture's specifications. They will select materials, tools and equipment for surface preparation, clean and sand vehicles, apply masking materials, operate, and maintain paint spray guns, and demonstrate paint shop health and safety procedures.

#### **AUTOMOTIVE METALS AND WELDING – ABR30SB**

In this course students will learn about metallurgy, focusing on the types of metals used in vehicle construction. Students will develop welding skills while operating and maintaining different types of welding equipment, such as inert gas (MIG), plasma arc, and resistance spot welding equipment.

#### **CORROSION PROTECTION – ABR30SC**

In this course students will learn about corrosion, oxidation, and electrolysis, and the theory behind corrosion protection. They will learn to select materials, tools, and equipment for surface preparation, clean and sand substrates, apply masking materials, operate, and maintain spray guns in order to protect substrates from corrosion.

## GRADE 12

### **DAMAGE ANALYSIS AND STRUCTURAL REPAIRS – ABR40SA**

In this course students will increase their knowledge of and skill in analyzing damage, planning repairs, and measuring and straightening. They will repair and replace damaged panels and structural components, repair and replace glass components, and restore corrosion protection.

### **WELD ON BOLT ON PANEL REPLACEMENT – ABR40SB**

In this course, students will learn to remove and replace interior/exterior trim and hardware, and transfer components, replace bolt-on and weld-on body panels, replace outer door panels, and adjust body panels and bumper assemblies. Students will be introduced to oxyacetylene cutting and welding along with GTAW, (Gas Tungsten Arc Welding) Silicon Bronze welding, and Aluminum pulse welding.

### **SURFACE PREPARATION AND REFINISHING – ABR40SC**

In this course students will learn to prepare vehicles for spot repairs, panel repairs, blending, and complete refinishing. Students will mix and prepare paints for spraying. They will refinish, reassemble, and clean vehicles for delivery, and follow paint shop health and safety procedures.

### **COLOUR THEORY AND CAREER PREPARATION – ABR40SD**

Students will learn color theory and tinting principles as they spot repair and blend with refinishing materials; plastic parts; perform final detailing; and correct common paint problems. They will also learn the skills required to transition from high school to the workplace and will create a portfolio and resume.

## WELDING TECHNOLOGY

### **EXPLORATION OF WELDING TECHNOLOGY – WE10S and WE20S**

This course is meant for students interested in exploring welding and will be introduced to the many different skills involved in this vocation.

# HAIRSTYLING

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## GRADE 9

### **HAIRSTYLING - HS10SS - Introduction to Hairstyling**

Students will be introduced to the history of hairstyling. An introduction to materials and equipment are the basics for this course. Students use mannequins to learn basic braiding techniques, shaping and directing the hair. Theory areas include ethics, hygiene, bacteriology, sanitation, trichology, diseases and disorders, safety, and career options.

### **HAIRSTYLING - HS20S - Introduction to Hairstyling**

During this term, students will learn basic shampoo and conditioning techniques. Draping procedures and the protection of the client are emphasized. Rollers, pin-curls, and finger waves are the foundation of this section, with limited work in quick service techniques (blow dryers and curling irons). Hair shaping procedures are introduced during this section, with the emphasis on angles and elevation.

## GRADE 10

### **HAIRSTYLING - HS20SA - Basic Hairstyling**

Hair shaping is introduced into this course, with emphasis on the 0°, 45°, 90° and 180° haircuts. An introduction to other angle cuts is presented. Additional styling techniques using blow dryers and curling irons (quick service) will be taught at this time with emphasis on safety procedures.

### **HAIRSTYLING - HS20SB - Basic Hair Cutting**

This section of the course focuses on razor cutting, thermal styling using the Blow-dryer and thermal irons as well as straightening irons. An introduction to clipper cutting and an emphasis on safety procedures. This section also introduces the students to chemical work and to basic wrapping and spiral wrapping for permanent waves, which are performed on models and mannequins.

## GRADE 11

### HAIRSTYLING - HS30S - Intermediate Haircutting and Barber

Barbering techniques are the focus in this section. An emphasis on shaving with a razor, preparing the client for a taper haircut, and client consultation procedures are the focus.

### HAIRSTYLING - HS30SA - Hair Colouring

Advanced cutting techniques are introduced to prepare for salon work. Students are also introduced to selection, application, processing, and removal of temporary, semi-permanent and permanent colors in the Level 10 system. Double applications and highlights with color and bleach are also performed on mannequins. Also included will be tinting beards, moustaches, and sideburns.

### HAIRSTYLING - HS30SB - Intermediate Hairstyling

A continuation of first semester with emphasis on hair colouring with advanced techniques such as Balayage, Ombre, and advanced foil techniques.

### HAIRSTYLING – HS30SC - Chemical Texture Services

Additional study is completed on various permanent wave techniques, including bricklaying, directional wrap- ping, piggyback and rod to roller transfers. Other areas are specialized block and sectioning techniques. Introduced at this time are various styles on longhaired mannequins using plait rolls and twists. Theory on wig styling, hairpieces and extensions is also included. Hair pressing is introduced with emphasis on hair relaxing with sodium hydroxide and permanent waverelaxers.

## GRADE 12

### HAIRSTYLING - HS40SSA - Advanced Hairstyling and Colouring

Curriculum content focuses on special effects hair colour, corrective hair colour, as well as advanced wet and thermal styling techniques.

### HAIRSTYLING - HS40SSB - Advanced Haircutting and Chemical Texture Services

Curriculum content focuses on advanced haircutting and permanent waving techniques, as well as the practical application of chemical hair relaxers.

### HAIRSTYLING - HS40SSC - Salon Operation

Curriculum content focuses on the business operations of a hair salon, as well as the creation of a resume and career portfolio.

### HAIRSTYLING - HS40SSD - Certificate Preparation

Curriculum content focuses on preparing students to successfully challenge the Provincial Practical Examination.

## WOOD TECHNOLOGY & ELECTRONICS

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### WOOD TECHNOLOGY - WT15G

This course lays the foundation of basic woodworking skills. Students are introduced to a variety of different tools and equipment within a woodworking/carpentry course through project design. Students build several projects utilizing different machines and are taught safe operating procedures of all equipment in the room. Students can design and build their own choice project in the latter part of the course. Students will exit the course being able to follow technically written instructions, apply basic measurement skills, and understand the importance of drafting and quality in design.

*Note: WT15G is taken in conjunction with ET15G. Students will be registered for both half-credit courses.*

### ELECTRONICS - EL15G

This is an introductory course where students will learn the basic electronic concepts. Students will have the opportunity to create several projects and learn the basics of electronics repairs among other learned skills in this course. No previous experience is required.

*Note: WT15G is taken in conjunction with ET15G. Students will be registered for both half-credit courses.*

### **WOOD TECHNOLOGY - WT20G**

This program is an extension of WT15 and provides students with a working understanding of the key elements associated with woodworking. Topics covered are design, safety, machine use, measurement, and finishing. The principle objective is to have students learn the major concepts and processes through hands-on activities using present-day industrial tools and materials.

### **ELECTRONICS - EL20G**

This course is an introduction to electronics where students will learn skills such as soldering, reading schematics, and using breadboards. Students will be guided through projects from basic to more complex as their level of understanding increases. Advanced skills such as using meters, creating printed circuit boards, and troubleshooting broken electronics are covered in this course.

### **WOOD TECHNOLOGY - WT30G**

This program is an extension of WT20G, this program provides students with a working understanding of the key elements associated with woodworking. Some topics covered are advanced machine use, CNC router design, and furniture building. Students will be required to use larger machinery in the lab, including the planer, jointer, and miter saw. Project design using MastercamX6 programs, will be encouraged as part of this challenging program.

### **ELECTRONICS - EL30S**

This program is an extension of the 20S course. Students will build upon previous skills and concepts to create more advanced electronics projects. Students will gain valuable troubleshooting skills to fix and repair various electronic items. The main focus is to cover advanced DC circuits and apply this knowledge to projects designed by the students.

### **WOOD TECHNOLOGY - WT40G**

In this final year, students become proficient in the use of all available woodworking machines and power tools. Many aspects of machine care, use, maintenance, and safety are taught. Projects are designed using MastercamX6 programs. Simple and advanced jigs and fixtures are introduced on various operations and machines. The main objective is for students to use previous years' experiences in Industrial Arts to plan, develop and construct quality, rewarding projects that reflect the individual's creative design and building abilities.

### **ELECTRONICS - EL40S**

In this final year, all previous skills and knowledge will be reviewed in addition to learning new concepts related to electronics. Students will apply knowledge to plan, develop and construct projects that demonstrate learning. Students can also compete at the Manitoba Robot Games, Manitoba Skills Competition and Science Fairs.

## ST. JAMES COLLEGIATE INSTITUTE DIPLOMA PLANNING SHEET

Grade 9		Grade 10		Grade 11		Grade 12	
Core Course	Credit	Core Course	Credit	Core Course	Credit	Core Course	Credit
English 10F (All Year)	1	English 20F	1	English 30SC/SL/ST	1	English 40SC/SL/ST	1
Mathematics 10F (All Year - Includes LW15S & MA15F)	2	Mathematics 20S/SPA	1	Math 30S/SA/SP	1	Math 40S/SA/SP	1
PE/HE 10F/10FF	1	PE/HE 20F/20FF	1	PE/HE 30F/30FF	1	PE/HE 40F/40FF	1
Canada in the Contemporary World 10F	1	Geography 20F	1	History 30F	1		
Science 10F	1	Science 20F	1				
	<b>6</b>		<b>5</b>		<b>4</b>		<b>3</b>
Option Course	Credit	Option Course	Credit	Option Course	Credit	Option Course	Credit
	1		1		1		1
	1		1		1		1
	1		1			*3 X 40s options req'd for post-secondary	
	1		1				
	<b>4</b>		<b>4</b>		<b>2</b>		<b>2</b>

\*G9s are fully timetabled

**17 CORE Courses + 13 OPTIONS Courses = 30**  
**Minimum course requirements for Graduation in Manitoba**