

# 2017-2018

## Gr. 12 - COURSE REGISTRATION WORKSHEET

<https://www.maplewood.com/mb/flb/vci/students>

Name \_\_\_\_\_

Due Date: April 20, 2017

### GRADE 12 – Semester 1& 2 (Choose Minimum of 3 Compulsory – BOLD)

Please check the box next to your choices.

<input type="checkbox"/> PED40F		<b>Physical Education (everyone must complete)</b>	
<b>* Choose at least one ELA from below</b>		<b>** Choose at least one Math from below</b>	
<input type="checkbox"/> LAC40S *	<b>Comprehensive Focus</b>	<input type="checkbox"/> MAP40S **	<b>Applied Mathematics</b>
<input type="checkbox"/> LAL40S *	<b>Literary Focus</b>	<input type="checkbox"/> MES40S **	<b>Essential Mathematics</b>
		<input type="checkbox"/> MPC40S **	<b>Pre-Calculus Mathematics</b>

### OPTIONAL COURSES – Choose a minimum of 3

<input type="checkbox"/> ACP30S	Accounting Principles ( <i>Business Diploma</i> )	<input type="checkbox"/> GCS40S	Global Issues: Citizenship and Sustainability
<input type="checkbox"/> ACS40S	Accounting Systems ( <i>Business Diploma</i> )	<input type="checkbox"/> HEF40S	Foods and Nutrition 40S
<input type="checkbox"/> AES40S	Automotive Electrical Systems	<input type="checkbox"/> IAC40G	Woodworking: Construction Technology
<input type="checkbox"/> ADS40S	Applied Diagnostic Strategies	<input type="checkbox"/> LAT40S	Language Arts Transactional
<input type="checkbox"/> ART40S	Visual Arts 1A	<input type="checkbox"/> LAZ40S	Language Arts Technical Communications
<input type="checkbox"/> BND40S	Concert Band	<input type="checkbox"/> LAW40S	Law ( <i>Business Diploma</i> )
<input type="checkbox"/> BIO30S	Biology	<input type="checkbox"/> LWC42C	Land Management/Water Conservation (On-Line and Practical)
<input type="checkbox"/> BIO40S	Biology	<input type="checkbox"/> LWT40S/LWB30S	Life/Work Transitioning   Life/Work Building
<input type="checkbox"/> CES41G	Cultural Exploration	<input type="checkbox"/> MCA/MAD45S	Intro to Calculus / Advanced Math
<input type="checkbox"/> CHE30S	Chemistry	<input type="checkbox"/> PHY30S	Physics
<input type="checkbox"/> CHE40S	Chemistry	<input type="checkbox"/> PHY40S	Physics
<input type="checkbox"/> CCH40S	Concert Choir	<input type="checkbox"/> PRO30S	Promotions ( <i>Business Diploma</i> )
<input type="checkbox"/> CMH40S	Cinema as a Witness to Modern History	<input type="checkbox"/> PSY40S	Psychology
<input type="checkbox"/> CSC40S	Computer Science	<input type="checkbox"/> SCI30S	Science General Topics ( <i>Forensics</i> )
<input type="checkbox"/> DRA40S	Drama	<input type="checkbox"/> SCI30S	Science General Topics ( <i>Environmental</i> )
<input type="checkbox"/> ECO40S	Economics ( <i>Business Diploma</i> )	<input type="checkbox"/> SCI 40S	Science 40S (Astronomy)
<input type="checkbox"/> FRE40S	French	<input type="checkbox"/> TDF35S/TWD35S	Digital Film Making/Web Design ( <i>0.5 towards Business Diploma</i> )
<input type="checkbox"/> FST40S	Family Studies	<input type="checkbox"/> TDP25S/TPB35S	Digital Pictures/Desktop Publishing ( <b>Yearbook</b> )
		<input type="checkbox"/> VS140S	Vehicle Systems Part 1
		<input type="checkbox"/> VS240S	Vehicle Systems Part 2

Due to class sizes, there may be a restricted number of students accepted into some courses. Therefore, students will be entered on a “first come, first served” basis. The Student Services Staff will work to ensure all students receive a proper timetable. Students’ final timetable may not look exactly as above.

**Accounting Principles 30S** (ACP30S) / Accounting Systems 40S Can be applied to the Business Technology Diploma. Completion of ACP 30S is required before taking ACS 40S. Introduces students to financial principles and practices important to both personal and business life, promotes job entry level skill, and provides an introduction to accounting concepts and procedures studied at the post-secondary level.

**Accounting Systems 40S** (ACS 40S) is an extension of ACP30S. Accounting 40S includes “hands on” experience with the computer.

**Automotive Electrical Systems 40S** (AES40S)

The automotive electrical system is studied in detail starting with basic electrical theory, using wiring diagrams to troubleshoot electrical problems, battery theory and service, starter and alternator theory and service, computer controlled ignition and fuel system theory, service, and repair. Students can become proficient in diagnosing electronic systems using appropriate test equipment and can become skilled in making repairs to automotive electrical and electronic components.

**Applied Diagnostic Strategies 40S** (ADS 40S)

A student wanting to expand skills in the automotive industry must be able to apply diagnostic strategies to a variety of vehicle systems and components. The students will demonstrate the ability to diagnose and correct customer concerns and to complete vehicle repairs to accepted industry standards.

**Visual Art 40S** (ART40S) Students continue their own personal exploration of art through their own expressive styles. Students are expected to submit proposed art projects plus critiques of their own work. Art history and critiques of other works continue to be part of this course to help students arrive at a personal understanding of the nature and function of art in our society.

Students are encouraged to use a variety of art media. Students will display their work in an art show. Class size is limited by space.

**Concert Band 40S** (BND40S) Band classes meet every second day for the entire school year. The Band program covers all types of music from Baroque to Modern 20<sup>th</sup> Century music. Band skills such as technical, expressive and reading skills are developed and emphasized. Music history, theory and ear training are part of the Band program. The band performs throughout the year. In all band years, the goal is to develop a well-trained and skilled band member. Out-of-class activities include performances at assemblies, concerts, Virden Festival and Optimist Festival (Winnipeg), band tours, and clinics. Enthusiasm and a love of music is required.

**Biology 30S** (BIO30S) Prerequisite: Science 20F This course builds on what students know and are able to do as a result of studies in Science 10G and Science 20F. It continues to retain a human biology focus. Evaluation is based on quizzes, unit tests, group work, laboratory work, and an examination.

**Biology 40S** (BIO40S) Prerequisite: Biology 30S. This course builds on what students know and are able to do as a result of their studies in Science 20F and the new Biology 30S. The main core units include genetics (heredity, human genetics, genetic engineering, molecular genetics, and bioethics), biodiversity (evolutionary theory, viruses, monerans, protists, fungi, plant kingdom, animal kingdom), and ecology (ecosystem, biomes, community interactions, population ecology field research). Both Biology 30S and 40S include topics of relevance to students and are prerequisites to further study of biology.

**Cultural Exploration 41G** (CES41G)

Students will be exposed to a variety of cultural experiences connected to Aboriginal Teachings. Students will be expected to participate in hands-on experiences such as beading, crafts, and cooking. Students will also reflect upon aboriginal literature, such as; novels, short stories and poetry connecting them to their own life experiences. This course will be assessed as a pass / fail course, so attendance and participation are essential.

**Chemistry 40S** (CHE40S) Prerequisite: Chemistry 30S. The course begins with the nature of chemistry – emphasis is placed upon further developing observation, inference, and communication skills in science. Students generate questions about chemical reactions, and design experiments to help answer these questions. Studies of kinetics, chemical equilibrium, acid-base equilibrium, solubility equilibrium and oxidation-reduction reactions make up the remainder of the course.

**Concert Choir** (CCH40S) The school choral program focuses on singing a wide variety of music. Students sing popular music, and music that goes as far back as the Renaissance Era.

Choral skills such as technical, expressive and reading skills are developed. Music history, theory, and ear training are studied through repertoire. Throughout the school year, many chances to perform arise, including a variety of concerts around the community. Some assignments include performances outside of the school day. Choral ensemble 20G, 30S and 40S are a continuation of the previous year. In all the courses, the goal is to develop well-trained and skilled choral member. You do not need to know how to read music before joining the choir. All you need is an enthusiasm for singing and a willingness to perform!

**Cinema as a Witness to Modern History** (CMH40S)

Students will review the history of the world through the eyes of movie directors, studying the biases and truths along the way.

**Computer Science 40S** (CSC40S) Prerequisite: Computer Science 30S. This course builds on the skills in Visual Basic that were developed in Computer Science 30S. Students will work on a series of ever-increasingly complex projects as they expand their knowledge of Visual Basic and develop even more impressive games and utilities.

**Dramatic Arts 40S** (DRA 40S) Students will be expected to participate in-group, duo, and occasional solo activities. Evaluation will be based on a combination of evaluation strategies based on process, progress (emphasizing participation), assessed assignment mark (presentation grade), self-evaluation, and other notations. Dramatic Arts 20G is a practical course in presentation skills. Dramatic Arts 30S is a practical course in Interpretation of dramatic scripts. Dramatic Arts 40S is a practical course in theatrical styles.

**Economics 40S** (ECO 40S) Economics is a part of daily life in the choices we make, in the decisions of communities, governments and business and in the media. While developing the theoretical framework of economics, this course offers real-world examples and explores current economic issues. Major topics include economic systems, supply, demand, monopolies, oligopolies, income distribution, consumption and savings, government spending, money and banking, unemployment, international trade and inflation. This is an introductory economics course and would be an asset to students planning to attend college or university to take business or other related courses.

**French 40S** (FRE 40S) The French curriculum enhances many aspects of other courses. Students acquire different learning processes, which are only developed by taking a second language. Students read, write, view and speak as they explore different themes. Students are actively involved in their learning at each step of the process. Evaluation is varied and frequent, including a final exam. The French curricula recognize that learning is a gradual and cumulative process. Each grade level builds on past concepts, skills, knowledge, and experiences; each level contains specific communication, experience, and language objectives. A second language enhances personal opportunities for jobs, careers, education, travel, and relationships.

**Family Studies 40S** (FST40S) The study of human development continues relating to personal development, and dealing with one's self-concept and self-management. Major topics include social development through effective communication and developing effective relationships including marriage and parenting. The importance of the family unit in society focuses on the entire life cycle from birth to old age.

### **Global Issues** (GCS 40S)

This course is designed to explore complex, and often critical, global issues that our world faces. It is an opportunity to study and discuss current events, and our connections to those events. Study and discussion topics include: Media, Consumerism, Environment, Wealth and Power, Indigenous Peoples, Peace and Conflict, Oppression and Genocide, Health and Biotechnology, Gender Politics, Social Justice and Human Rights.

**Foods and Nutrition 40S** (HEF40S) Approximately one-third of class time is spent preparing and serving recipes. Topics studied include international foods, health conditions related to diet, careers in the food industry, and current nutrition information.

### **Construction Technology 40G** (IAC 40G)

Prerequisites: Woodworking Technology and Industrial Design 30G

This course appeals to students who enjoy designing and constructing. Besides covering the different stages of house construction, students are given a number of construction challenges to complete both individually and as a group. As well as being an excellent hobby, construction is a great way to express your creativity, to develop problem-solving skills, to save money by doing it yourself and to learn a trade.

### **Language and Transactional Forms 40S** (LAT40S)

Provides learners with experiences related to reading, writing, listening, speaking, viewing, and thinking. In transactional English, however, use of language is more specialized and designed to meet individual post-secondary needs. Intended for students whose post-secondary goals include an emphasis on journalism, public relations, media or creative communications.

### **Language and Technical Communication 40S** (LAZ40S)

Applies reading, writing, listening, speaking, viewing, and thinking to technical forms of communication used in business, in technology, and in science.

Technical Communication is designed for students interested in pursuing post-secondary goals related to engineering, trades, management, science, law, medicine, dentistry, business administration, computer science, nursing, accounting, agriculture, and retailing.

**Law 40S** (LAW 40S) Develops an understanding of the making of laws, an understanding of the court system in Canada, and an appreciation for the importance of law in our daily lives. Topics include history of law, Canadian Government, criminal law, human rights, contract law, consumer law, family law, and labor law.

### **Land Management Water Conservation** (LWC42C)

Prerequisite: Science 10F

The goals of this course include the students acquiring a greater appreciation and understanding of the environment in addition to gaining an academic background in the field of environmental studies. This will be achieved in part by on-line assignments but also by hands-on field activities in the areas of water sampling, GPS orientation, insect and plant specimen collection and identification. This course offers the opportunity of earning a Grade 12 and Assiniboine Community College credit.

**Life/Work Building** (LWB30S) This course teaches students to focus on personal management skills, work as a team, locate work information, plan for post-secondary financial aid, understand life/work balance and transition from high school. In addition to the classroom component, students will have approximately 45 hours at a worksite(s) to apply the specific program outcomes of the course during their Career Community Experiences Unit.

**Life/Work Transitioning** (LWT40S) This course gives students opportunities to internalize all the learning outcomes in a classroom setting and then spend up to 80 hours applying and personalizing these outcomes in their Career Community Experience. The Grade 12 program emphasis is on transition from high school to post-secondary training and preparation for employment.

### **Advanced Math 45S / Intro to Calculus 45S** (MCA45S/MAD45S)

The prime objective of this course is to introduce the student to areas of mathematics which will be studied in depth in post-secondary programs. Students are introduced to the concepts of limits, derivatives, applications of derivatives and integration. In this course, problem-solving, communication, reasoning, and mental math are some of the themes in each module.

**Physics 40S** (PHY40S) Prerequisite: Physics 30S Be prepared to give up a few noon hours for experiments on the computer. Topics include: Introduction to Physics – Relationships, order of magnitude, and vectors; Mechanics – Kinematics, dynamics, projectiles, circular motion, work, energy fields, electric currents, and electromagnetic induction; and Introduction to Modern Physics – Particle and wave models of light, photons, and wave/particle duality.

**Promotions 30S** (PRO30S) This marketing course focuses on promotion and personal selling. Major topics include target markets, promotion, colour, lettering, design, advertising, displays, customer service, and personal selling.

**Psychology40S** (PSY40S) This course is intended to introduce students to the exciting field of psychology, to help students gain a better understanding of themselves and others, and to prepare students for post secondary education in related fields such as social sciences, health related occupations, management, education, etc. This course will cover interesting topics such as the influence of heredity and environment, motivation and emotions, sensation and perception frustration and conflict, personality disorders, learning and thinking and much more.

Psychology is fun to learn about because it is all about why we behave, think, and feel the way we do and students will leave this course with a better understanding of themselves and the world around them.

**Science 30S** (SCI30S) Prerequisite: Science 20F Science 30S “Current Topics” course provides an integrated approach to studying science. Multidisciplinary topics will be investigated.

Emphasis will be made on developing research, critical thinking, and problem-solving skills. As this course will have less emphasis on knowing scientific facts and information, it will be considered as an option course and not as a prerequisite for post-secondary education. The students will have input into the topics covered by the course. Some possible topics include Forensic Science, Stem Cell Research, Sports Science, Wildfires, Biotechnology Today, Technologies of the Future, Transportation in the Future, Living in Space, plus many other options. Assessment strategies will vary, depending on the nature of the unit. Research projects, lab work, and presentation of material will be considered in the evaluation. There will not be any formal tests. Students who are highly motivated, interested in expanding their scientific knowledge in a different way and are capable of working independently for extended periods of time are the best candidates for this course.

### **Science 40S** (SCI40S)

Prerequisite: Science 20F

In Science 40S “Interdisciplinary Topics in Science” students will explore, understand and use essential science concepts in a variety of contexts. (example – Astronomy)

**Digital Film Making** (TDF35S) The purpose of the course is to provide students with the skills and knowledge to tell stories by combining sound, still images, moving images, text, graphics, and animation into a video product. Students will plan, develop, and produce a video project.

**Web Design** (TWD35S) Can be applied towards the Business Technology Diploma. The purpose of this course is to provide students with the skills and knowledge to design, develop, and publish a simple website.

**Digital Pictures 25S** (TDP25S)

The purpose of this course is to provide students with the skills and knowledge to convey a message through an original digital image. Students will be responsible for capturing all images for the school yearbook.

**Desktop Publishing** (TPB35S) Can be applied towards the Business Technology Diploma. The purpose of the course is to provide students with the skills and knowledge to plan and create a variety of published print documents; the major published document being the school yearbook.

**Vehicle Systems (Part 1) 40S** (VS1 40S)

A student wanting to develop skills in the automotive industry must have knowledge of the operation of the automotive electronic and control systems. Students' knowledge in electrical systems will be further enhanced by learning principles of ignition, control, and communications systems. The student will be able to diagnose, service and repair ignition, control, and communications systems.

**Vehicle Systems (Part 2) 40S** (VS2 40S)

A student wanting to develop skills in the automotive industry must have knowledge of engine management and emissions systems, hybrid vehicle systems, as well as gas metal arc (MIG) welding. The student will understand the principles of fuel supply, metering, and vehicle emissions. The student will be able to use electronic diagnostic interface to diagnose, service, and repair engine management and emission systems

### **Other Credit Options:**

- Career Development Internship (CDI) / Career For Employment (CFE) – 2 (220 hours)
- Volunteer Work Credits – 2 (220 hours)
- Apprenticeship – 8 (110 hours / per)
- Community Service Credit – 1 (110 hours)