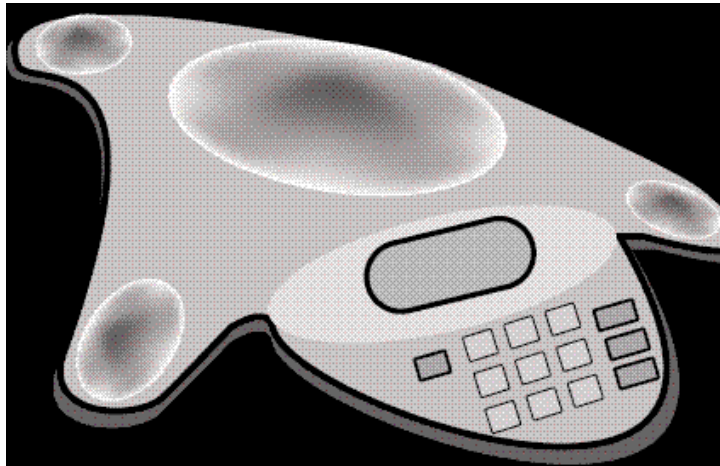


Teacher Mediated Option

Course Guide



2018-2019

Welcome to the Teacher Mediated Option (TMO)

Roles

In order to offer a successful TMO program to distance learners, many stakeholders are involved:

As host division, Pine Creek School Division provides a Teacher Leader and the TMO principal who provide leadership to the TMO Teachers and support the successful implementation and delivery of TMO courses. They develop, coordinate, and administer the TMO Program while providing support to all TMO Stakeholders. The TMO Teacher Leader and Principal liaise with the TMO Teachers, Proctors, Principals, and Students on a regular basis to ensure that the TMO policies, practices, and procedures are understood and adhered to.

TMO Consortium members determine fees and other related policies. School divisions appoint a TMO School Proctor, usually a teacher or division employee, who is responsible for the on-site delivery and supervision of the TMO Students.

TMO Teachers prepare their courses and learning activities based on the Distance Learning Unit's Independent Study Option courses and deliver classes via teleconference. TMO teachers also make regular on-site visits to TMO schools to work directly with students and teach lessons from the site.

TMO Students are registered with a Manitoba school. They attend the scheduled audio teleconference classes hosted by the TMO Teacher.

The Program

Grade 9 to 12 courses are offered on a six-day timetable. Course materials are provided by the DLU and follow Manitoba Education and Advanced Learning's provincial curricula.

Courses are timetabled within the school day and include 50 minutes of teleconference class time, four times per cycle, with the exception of Physical Education which is three times per cycle.

All courses are held by audio teleconference. During class time, TMO Teachers teach course content and answer any questions that the students might have. TMO Teachers and TMO Proctors work together to pace the students and encourage them to complete work on a set schedule.

TMO Students are given regular assignments that they send to the TMO Teacher via mail, email and/or fax. Between classes, students may also contact the TMO Teacher by email or by phone (toll free number) for additional one-to-one or small group tutoring sessions.

TMO Consortium Members

The participating school divisions include Beautiful Plains, Frontier, Pine Creek, Sunrise and Turtle River.

School Proctor Responsibilities

Schools that register students for Teacher Mediated Option (TMO) courses appoint a TMO Proctor. TMO Proctors are employees of the participating school.

The TMO Teacher Leader will provide information to TMO Proctors regarding course content, course prerequisites, and TMO Program policies and procedures.

TMO Proctor Expectations:

- Acts as a Liaison between the school, TMO Teacher Leader, and/or the TMO Teachers:
 - Ensures that students complete the TMO registration/application form and submits it with TMO Proctor and Parent/Guardian signatures.
 - Provides an adaptation plan to the TMO office; the Teacher Leader will review the plan and share it with the TMO teachers to accommodate requests for adaptations to course material, assignments, exams/tests.
 - Submits and returns assignments, tests, exams, projects, or essays to and from students and TMO Teachers.
 - Administers and supervises TMO tests/exams and Provincial exams. If the TMO Proctor is unable to supervise, arrangements must be made to ensure there is a teacher in the room.



- Completes and submits withdrawal forms by the published deadline date to the TMO office.
- Consults with the TMO Teacher Leader regarding students that do not meet end of semester course work submission deadlines.
- Registers students for the Provincial Standards Tests. TMO Proctors are responsible for following the TMO Program Policies and Procedures for Provincial Standards Tests set out by the TMO Consortium and Manitoba Education and Advanced Learning. In addition, Proctors must also use the Policies and Procedures for Provincial Tests found on the website:
 - www.edu.gov.mb.ca/k12/assess/s_tests/index.html
- Ensures the students have the required supplies and textbooks.
 - The DLU office will supply the course materials; supplies from the Manitoba Learning Resource Centre (MTBB) must be ordered by TMO Proctor/School Principal.
- Ensures the students have the use of a speaker phone (with mute & volume option) or other teleconference system to access TMO audio teleconferences.
- Monitors student progress and attendance:
 - Liaises with the TMO Teacher regarding student's attendance, progress, and behavior.
 - Schedules regular meetings with student(s) to review their progress.
 - Promotes regular/punctual attendance and discusses attendance issues with students.
 - Monitors deadlines for students to ensure assignments and courses are completed on time.
 - Communicates student progress and attendance to parent(s)/ guardian(s).
 - Records TMO marks and comments on school issued report cards and transcripts.

Student Responsibilities

The design of the TMO program requires that students are able to work independently. Students are scheduled into regular classes, following a semester timetable. Students are expected to come to class prepared to engage with the TMO Teacher as well as fellow students joining the teleconference class. Assignments will be completed outside of the scheduled class times.

The TMO Teacher will pace the students throughout the course and students are expected to submit assignments in a timely manner for assessment. Students must submit individual assignments. Group assignments will not be accepted unless requested by the TMO Teacher.

Attendance

Attending class provides an opportunity to engage in conversations with the TMO Teacher and classmates. Participation enhances student's learning opportunities beyond independent study.

Being on time is expected and demonstrates respect for other students and the TMO Teacher.

Obtaining Credit for a Course

- Students must complete all hand-in work and exams before a final grade will be issued.
- Assignments and re-done assignments must be submitted by the published semester-end due date.
- A minimum mark of 30 percent is required on all exams/progress tests. A student receiving a mark less than 30 percent on an exam must contact their TMO Teacher to discuss options to raise their mark.
- TMO Proctors are responsible to record the TMO Teacher's marks and comments on their school division's report cards.

Evaluation

Formative and summative reports will be provided to the schools from the TMO Teacher.

Plagiarism

Plagiarism is the use of another person's words or ideas without giving credit where credit is due. Some examples are:

- Downloading material in whole or part from the Internet.
- Copying word for word from published or unpublished work.
- Paraphrasing published or unpublished material without bibliographic notation. If this becomes an issue, the TMO Teacher and the student will follow the school's policy.



Examinations

Arrangements for administration and supervision of tests and examinations will be done by the TMO Proctors in the schools. Exams are marked by the TMO Teacher.

Provincial Standards Assessment

All TMO students in the Grade 12 English Language Arts and Mathematics courses are required to write the Provincial Standards Tests. The provincial standards test mark will account for 30% of the final mark.

For more policy and procedures information, please contact your local School Division Office, the TMO Principal, or the TMO Teacher Leader.



Getting Started: Procedures

Please register students early. If the enrollment exceeds 27 students per class, additional sections will be considered. Minimum registration may also be required. Schools will be notified when courses are not offered due to low enrollment.

Registration Fees

Members

Full-credit course \$630.00

Non-Member

Full-credit course \$710.00

Course Materials

For each student registration, school divisions will be invoiced for one course package, including the provided resources. The cost of each course package is \$80.00 plus G.S.T for 1st semester packages ordered before September 1st. After Sept. 1st, course packages are \$85.00 plus G.S.T. Course packages will be shipped directly to the school prior to the start of each semester.

- Invoices are sent to all school divisions.
- Semester 1 payment is due in October.
- Semester 2 payment is due in March.
- Payment will be made to Pine Creek School Division.

Textbooks

Textbooks listed in the TMO Guide are to be acquired through the:

Manitoba Learning Resource Centre (MLRC)

formerly known as Manitoba Text Book Bureau
130 - 1st Avenue West
P.O. Box 910
Souris, MB R0K 2C0
Telephone: 204-483-5040
Toll free: 1-866-771-6822
Fax: 204-483-5041

Please contact the Manitoba Learning Resource Centre for prices.

Resources/Technology

- Many courses have minimum supply requirements. Schools must purchase supplies when registering students in any of these courses. A list of resources that will be required/ suggested for each course will be available before classes start for those registered.
- Please check the course descriptions for specifications and ensure relevant technology is available prior to registering.

Minimum Equipment Requirements

- A good speaker phone with a mute button option and volume control. Multiple classes are scheduled at the same time and each class requires its own speakerphone or teleconference system.

Refund Policies

- TMO Course Fees are non-refundable after the voluntary withdrawal date. TMO course packages are non-refundable.

Withdrawals

- Students can withdraw from a course without academic penalty. Divisions will not be invoiced for course fees until after the withdrawal deadline.



Grade 9-12 Courses

In an effort to provide increased credit options to Manitoba students, the TMO program assists school divisions in offering courses by audio teleconference, via supervision of teacher mediated instruction.

TMO - Compulsory Courses			
Grade 9	Grade 10	Grade 11	Grade 12
English Language Arts 10F Mathematics 10F Canada in the Contemporary World 10F Science 10F Physical Education/Health 10F	English Language Arts 20F Essential Mathematics 20S Geographic Issues of the 21st Century 20F Science 20F Physical Education/Health 20F	ELA: Transactional Focus 30S Essential Mathematics 30S History of Canada 30F	ELA: Transactional Focus 40S Essential Mathematics 40S
TMO - Optional Courses			
Electricity/Electronics 10G German 10G Home Economics 10G Intro to Drafting Technology 10G Power Mechanics 10G	Electricity/Electronics 20G	Agriculture 30S	

Physical Education/Health Education

Teacher Mediated Option will not be offering the required Physical Education/Health Education courses in Grades 11 and 12. They are offered through Independent Study Option:

Grade 11 Active Healthy Lifestyles (30F)

Grade 12 Active Healthy Lifestyles (40F)



ENGLISH LANGUAGE ARTS

Grade 9 English Language Arts (10F) 1 credit (2016) **0001 10F 003**

In this course, you will have the opportunity to read short stories, poems, non-fiction works and novels. You will also view visual works. Besides reading and viewing the works of others, you will be writing, representing, and speaking about those works and your own creations.

The course is divided into 8 Sequences:

- Sequence 1: Getting to Know You
- Sequence 2: Getting to Know Others
- Sequence 3: The Conflicts in Our Lives
- Sequence 4: From Blogs to Zines
- Sequence 5: Longer Works of Fiction or Non-Fiction
- Sequence 6: Heroes in the Real and Imaginary World
- Sequence 7: Media Literacy
- Sequence 8: The Showcase Portfolio

Required Resources

- A three ring binder
- Grade 9 ELA Supply list is provided in the course and at

http://www.edu.gov.mb.ca/k12/dl/iso/senior/gr9_ela_supply_list.pdf

Required Textbooks

- Alice Barlow-Kedves et al. *SightLines 9*. (Stock # 7702) MLRC
- Robert Dawe et al. *ResourceLines 9/10*. (Stock # 7703) MLRC

Novel

You will be notified at the beginning of the semester which novel will be needed for this course.

Suggested Resources

- Peter Sebranak et al. *Writers Inc: A Student's Handbook for Writing and Learning*. (Stock #72090) MLRC
- *Gage Canadian School Thesaurus* (Stock # 6206) MLRC
- *Gage Canadian Dictionary* (Stock # 6204) MLRC

Grade 10 English Language Arts (20F) 1 credit (2016) **0001 20F 002**

In this course, you will have the opportunity to read short stories, poems, non-fiction works and novels. You will also listen to audio performances and view visual works. Besides reading and viewing the works of others, you will be writing, representing, and speaking about those works and your own creations

The course is divided into 8 Sequences

- Sequence 1: Starting with Yourself as a Learner
- Sequence 2: Introducing Yourself to Others
- Sequence 3: Significant People in Your Life - The Influences of Parents
- Sequence 4: Finding Yourself and Your Place in the Word (Literary Focus)
- Sequence 5: The Many Forces That Influence People - Novel Study
- Sequence 6: More Influential Factors in Our Lives - How the Values of Friends and Peers Affect Us (Transactional Focus)
- Sequence 7: Changemakers of Today - People Who Influence Our World
- Sequence 8: The Showcase Portfolio

This course will help facilitate the language development of Grade 10 students.

Novels

You will be notified at the beginning of the semester which novel will be needed for this course.

Required Textbooks

- Crane, Mary, Barbara Fullerton, and Amanda Joseph, eds. *SightLines 10*. (Stock # 8241) MLRC
- Dawe, Robert, Barry Duncan, and Wendy Mathieu. *ResourceLines 9/10*. (Stock # 7703) MLRC

Suggested Resources

- Peter Sebranak et al. *Writers Inc: A Student's Handbook for Writing and Learning*. (Stock # 72090) MLRC
- *Gage Canadian School Thesaurus*. (Stock # 6206) MLRC
- *Gage Canadian Dictionary*. (Stock # 6204) MLRC



**Grade 11 English Language Arts
Transactional Focus (30S)
1 credit (2007) 0094 30S 002**

This course will assist with the language development of Grade 11 students. The emphasis of this course is 70% pragmatic/practical and 30% aesthetic/reflective. In order to meet the learning outcomes, students will engage with and compose texts primarily to gain information or discern another point of view, to compare and weigh ideas, to argue a case, and to conduct daily transactions. Pragmatic communication is audience-specific; as speakers, writers, and representers, they learn to express themselves clearly, logically, and with an intended effect. Some of the learning experiences include: creating a zine, designing a pamphlet, recording an oral presentation, producing an advertisement, and creating a portfolio.

The course is structured as follows:

- Sequence 1: Getting Acquainted
- Sequence 2: Advertising
- Sequence 3: From Fiction to Fact: Self-Directed Inquiry
- Sequence 5: Messages in the Workplace
- Sequence 6: Samples and Reflections (Portfolio)

Novels

You will be notified at the beginning of the semester which novel will be needed for this course.

Suggested Resources

- *Gage Canadian Dictionary*. (6204) MLRC
- *Gage Canadian Thesaurus*. (6206) MLRC
- Sebranek, Patrick, Meyer, Verne and Kemper, Dave. *Writers INC: A Student Handbook for Writing and Learning*. (72090) MLRC



**Grade 12 English Language Arts
Transactional Focus (40S)
1 credit (2003) 0094 40S 001**

This course will assist with the language development of Grade 12 students. The emphasis of this course is 70% pragmatic/practical and 30% aesthetic/reflective. The Transactional Focus stresses the pragmatic uses of language: language that informs, directs, plans, persuades, analyzes, argues, and explains. This course is designed for those students who wish to work with and create non-fictional materials. The overall theme of this course is “influences”; students will explore and reflect on significant people, communities, and places/events that have helped shape their lives. Students will have the opportunity to: create their own biopic, prepare and conduct interviews, write a tribute, report, and reflective essay, and design a portfolio.

The course is structured as follows:

- Sequence 1: Influences and Self
- Sequence 2: Influences and Other
- Sequence 3: Local and Global Community Influences
- Sequence 4: Reminiscences
- Sequence 5: Using Language to Share and Celebrate (portfolio)

Memoirs

You will be notified at the beginning of the semester which novel will be needed for this course.

Suggested Resources

- *Gage Canadian Dictionary*. (6204) MLRC
- *Gage Canadian Thesaurus*. (6206) MLRC
- Sebranek, Patrick, Meyer, Verne and Kemper, Dave. *Writers INC: A Student Handbook for Writing and Learning*. (72090) MLRC



GERMAN

Grade 9 German (10G)

1 credit (2016) **1002 10G 008**

In this course, you will acquire a foundation of the fundamental German vocabulary, as well as develop a basic understanding of the structure of the language. Throughout the course, you will enhance your ability to speak, read, and write in German, and to understand the language.

Required Resources

- Device to listen to audio CD and/or record audio files (Other recording options can be discussed with the Teacher)
- Device to view video CD
- German-English dictionary

HOME ECONOMICS

Grade 9 Home Economics (10G)

1 credit (2010) **0482 10G 001**

This course specializes in hands-on learning experiences through the integration of skills and knowledge that can be applied to authentic work and home/life situations.

The purpose of this course is:

- to encourage students to make positive behavioural changes in their diet and lifestyle through practical application of theoretical knowledge.
- to provide students with the opportunity to reflect on decisions that affect relationships and their own well-being throughout life.
- to provide students with the opportunity to learn about clothing and textiles. Discussion topics include clothing messages, wardrobe planning, and the construction, care, and selection of clothing.

It is structured as follows:

Module 1: Nutrition and Food

Module 2: Family Studies

Module 3: Clothing and Textiles

Provided Resources

- *Eating Well with Canada's Food Guide*

Video

- *Grade 9 Home Economics (10G) Video CD*

Suggested Resources

- Access to a computer for word processing is highly recommended
- Access to a home kitchen
- Camera or video camera

Required Resources

Select one of the following hand sewing kits to purchase from MB Learning Resource Centre:

Volleyball – red/white (beginner)

MLRC Stock #14674

Soccer ball - black/white (beginner)

MLRC Stock #5047

Wee Bear – teddy (intermediate)

MLRC Stock #14672

Homer – dog (advanced) MLRC Stock #14673

Please Note:

Some of the content and issues pertaining to *Grade 9 Home Economics (10G)* may be sensitive for some students and their parents/families and or communities. This sensitive content is contained in one lesson. Students have a choice of completing this lesson or an alternative one which does not contain sensitive content.



INDUSTRIAL ARTS

Grade 9 Electricity/Electronics (10G) 1 credit (2014) **7974 10G 004**

This course will expose students to the fundamental concepts of electronics. The student does not require a background in electronics. The content in this course is applied to written assignments, constructing projects, initiating student challenges, and conducting experiments. Students are guided through the course with reference to the video that demonstrates skills and safety precautions. Given the hands on nature of this course, student supervision is highly recommended. Each student is to purchase/complete the electricity projects. Group submissions will not be accepted.

This course is structured as follows:

Module 1: Electricity: The Shocking Facts on How it is Produced

Module 2: Safety

Module 3: Electronic Components

Module 4: Building a Project: Getting Started with Your Tools and Equipment

Module 5: Series, Parallel, and Combination Circuits

Module 6: Linking Education to Careers: What Do You Want to do for the Rest of Your Life?

Module 7: Major Project

Provided Resource

Grade 9/10 Electronics video

Suggested Resources

Each student is to purchase/complete the electricity project. Group submissions will not be accepted.

- *Electricity Kit* (9993) MLRC*
- *Electricity Kit* (without Tool Kit) (3308) MLRC*
- *Circuit Board only* -if a second circuit is desired (3307) MLRC*

* Choose one of the kits listed above. Please check individual kit contents in the course preview to determine which kit is suitable for your needs. www.edu.gov.mb.ca/k12/dl/iso/senior/gr9_electricity_supplies.pdf
We recommend calling Manitoba Learning Resource Centre to verify the cost of this kit before purchasing the course.

Additional Supplies required:

- 9 volt batteries
- Calculator
- Safe work area with 120 volt 15 amp household power supply



**Grade 9 Intro to Drafting Design
Technology (10G)
1 credit (2003) 7953 10G 002**

This course will help you gain knowledge and understanding of the world of drafting and design. Since drafting is a visual form of communication, the course is designed around this theme.

The modules, assignments, and tests have been developed so that each student will have step-by-step guides for the completion of all sketches and drawings. It is structured as follows:

- Module 1: What is Drafting and Why Do We Study It?
- Module 2: Drafting Equipment and Practices
- Module 3: Sketching
- Module 4: Measuring/Scales
- Module 5: Geometric Applications
- Module 6: Single View Template Drawings
- Module 7: Basic Dimensioning
- Module 8: Multi-View Drawings
- Module 9: Pictorial Drawings
- Module 10: Sectioning
- Module 11: Pattern Development

Resources

- *Drafting Tool Kit* (Stock # 8978) MLRC
We recommend calling MLRC to verify the cost of this resource before purchasing the course.
- See Grade 9 Drafting (10G) Tool Kit List (http://www.edu.gov.mb.ca/k12/dl/iso/senior/gr9_drafting_kit.pdf)

(Contains items sold in kit listed above)

**Grade 9 Power Mechanics
Technology (10G)
1 credit (2018) 7965 10G 001**

This course is currently in development.

The following topics are likely to be covered in the course:

- Fasteners and Gaskets
- Theory of Engine Operation
- Lubrication System
- Cooling System
- Fuel System
- Basic Electrical and Ignition Systems
- Wheels, Hubs and Tires

There will also be a practical/hands on component to this course.



Grade 10
Electricity/Electronics (20G)
1 credit (2014) **7974 20G 001**

This course will further student understanding of the basics of electricity and electronics. The Grade 9 Electricity/Electronics course is a recommended prerequisite but it is not a required prerequisite to register in this course. The Grade 10 course assumes that students will have prior knowledge learned in the Grade 9 course or from other appropriate sources. The content in this course is applied to written assignments, experiments, learning activities and the construction of two projects. Students are guided through the course with reference to the video that demonstrates skills and safety precautions. Given the hands on nature of this course student supervision is highly recommended. Each student is to purchase/complete the electricity projects. Group submissions will not be accepted. It is structured as follows:

Module 1: Introduction to
Electronics Module 2: The Basics
of Electricity
Module 3: Capacitors and Semiconductors
Module 4: Ohm's Law and Circuit
Fundamentals Module 5: Magnetism and
Induction

Resources

- Gr 9/10 Electronics video (provided)

Purchase from the [Manitoba Learning Resource Centre](#)

- *Electricity Kit* (Stock # 13194) MLRC *
- Electricity Kit (without Tool Kit)
(Stock # 13193) MLRC *

** Choose one of the above kits. Please check individual kit contents in the Course Preview to determine which kit is suitable for your needs.*

We recommend calling MLRC to verify the cost of this kit before purchasing the course.

Additional Supplies required:

- 9 volt batteries
- Calculator
- Safe work area with 120 volt 15 amp household power supply



MATHEMATICS

Grade 9 Mathematics (10F)

1 credit (2012) **0080 10F 012**

This course develops foundation skills and ideas that you will need to continue studying math in the future. Problem solving, communication, reasoning and mental math are some of the themes you will discover in each module. There are four main areas you will be exploring: numbers, relations and patterns, geometry and statistics and probability. After completing this course, you will have gained critical skills and knowledge that you will need for future math learning and confidence in your abilities as a mathematician.

The course is structured as follows:

Module 1: Statistics

Module 2: Number Sense

Module 3: Powers

Module 4: Polynomials

Module 5: Linear Relations

Module 6: Circle Geometry

Module 7: 2-D and 3-D Objects

Module 8: Symmetry

Required Resources

- Graphing or Scientific calculator
- Metric Ruler
- Protractor
- Graph Paper

Suggested Resources

- Access to the Internet is recommended as the course will make reference to support material found on the Internet. Students also have the ability to email their assignments for marking.
- Newspapers or magazines

Grade 10 Essential Mathematics (20S)

1 credit (2012) **3000 20S 001**

Note: Students may not hold credit in this new course **and** in either of the former *Consumer Mathematics 25G Part I and Part II (code 3911/3912)* and/or *Consumer Math 20S (code 3904)* course

This course develops math skills, ideas, and confidence that will enable students to continue studying math in the future. Students will use many of the skills that they already have learned to solve problems and do basic arithmetic operations. There are four main areas that will be explored in this course: personal finance, shapes and space, numbers and decision making. Problem solving, communication, reasoning, and mental math are some of the themes you will discover in each module.

The course is structured as follows:

Module 1: Gross Pay, Time Cards and Percents

Module 2: Net Pay

Module 3: Measurement

Module 4: Geometry

Module 5: Working with Angles

Module 6: Consumer Decisions

Module 7: Trigonometry

Module 8: Transformations

Required Resources

- Graphing or Scientific calculator
- Metric Ruler (15 cm long)
- Imperial Ruler (6 inches long)
- Geometry set including a set of compasses, a protractor, and a set square

Suggested Resources

- Access to a computer with spreadsheet and graphing capabilities will be an advantage, but not a requirement. If students do not have access to a computer, they will be able to complete the related learning activities and assignments without it.
- Access to the Internet is recommended as the course will make reference to support material found on the Internet.



Grade 11 Essential Mathematics (30S)

1 credit (2014) **3000 30S 001**

The Grade 11 Essential Mathematics course builds on the knowledge and skills students gained while studying Grade 10 Essential Mathematics. In general, the Essential Math curriculum emphasizes consumer applications, problem solving, decision making, and spatial sense. The specific topics in Grade 11 are listed below. After completing this course, the students will be well-prepared to complete Grade 12 Essential Mathematics.

It is structured as follows:

- Module 1: Interest and Credit
- Module 2: 3-D Statistics
- Module 3: Statistics
- Module 4: Managing Money
- Module 5: Relations and Patterns
- Module 6: Trigonometry
- Module 7: Design Modeling

Provided Resources

- Module 7 colour CD

Required Resources

- Graphing or Scientific calculator
- Metric Ruler (15 cm long)
- Imperial Ruler (6 inches long)
- Geometry set including a set of compasses, a protractor, and a set square

Suggested Resources

- Access to a computer with spreadsheet and graphing capabilities. If students do not have access to a computer, they will be able to complete the related learning activities and assignments without it.
- Access to the Internet is recommended as the course will make reference to support material found on the Internet.

Grade 12 Essential Mathematics (40S)

1 credit (2014) **3000 40S 001**

Note: Students may not hold credit in this new course **and** in either of the former *Consumer Mathematics 45S Part V and Part VI (code 3915/3916)* and/or *Consumer Math 40S (code 3904)* course.

The Grade 12 Essential Mathematics course builds on the knowledge and skills students acquired while studying Grade 11 Essential Mathematics. In this course students will investigate new ideas and concepts while building the confidence needed to make decisions and solve problems related to consumer applications of mathematics.

It is structured as follows:

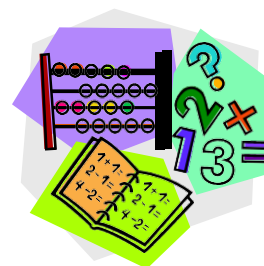
- Module 1: Home Finance
- Module 2: Geometry and Trigonometry
- Module 3: Business and Finance
- Module 4: Probability
- Module 5: Vehicle Finance
- Module 6: Career Life
- Module 7: Statistics
- Module 8: Precision Measurement

Required Resources

- Graphing or Scientific calculator
- Metric Ruler (15 cm long), Imperial Ruler (6 inches long), and a protractor
- Access to the Internet is highly recommended as the course will make reference to support material found on the Internet

Suggested Resources

- Access to a computer with spreadsheet and graphing capabilities. If students do not have access to computer they will be able to complete the related learning activities and assignments.



SCIENCE

Grade 9 Science (10F) 1 credit (2011) **0120 10F 001**

This course examines the atoms that make up all matter on earth. Discover how electricity has been harnessed to operate machinery, uncover how our body tissues grow and regenerate, and explore the far-off stars and planets of our galaxy. Some learning activities and assignments require hands-on experiments using household items.

It is structured as follows:

Module 1: Reproduction

Module 2: Atoms and Elements

Module 3: The Nature of Electricity

Module 4: Exploring the Universe

Required Resources

- Grade 9 Science Supply list for the hands-on experiments is provided in the course and at http://www.edu.gov.mb.ca/k12/dl/iso/senior/gr9_science_supply_list.pdf

Suggested Resources

- Internet access is recommended as there are additional support materials for the course on websites that are listed throughout the course.

PLEASE NOTE: Some of the content and issues pertaining to Grade 9 Science (10F) may be sensitive for some students and their parents/families and or communities. This sensitive content is contained in Module 1.

Grade 10 Science (20F) 1 credit (2012) **0120 20F 001**

This course is designed to develop student's scientific literacy through inquiry-based activities that aim to strengthen and encourage critical thinking, problem solving, and analytical skills/abilities. The Grade 10 Science course is intended to provide a broad scientific background and assist students in preparing for more specialized courses in Grade 11 and 12. Students will engage in some hands on experiments using household items, research projects, and also learn about the theories, models, concepts, and principles for each of the science areas/modules listed below:

It is structured as follows:

Module 1: Dynamics of Ecosystems

Module 2: Chemistry in Action

Module 3: In Motion

Module 4: Weather Dynamics

Provided Resource

- "In Motion" booklet on CD
- Science (20F) video CD

Suggested Resources

- Internet access is recommended as there are additional support materials for the course on websites that are listed throughout the course.



Grade 11 Agriculture (30S)
1 credit (2005) 0201 30S 001

Grade 11 Agriculture is a full credit course that provides a comprehensive introduction to agriculture in Manitoba, including historical perspectives, as well as present concerns and trends. The aim of the course is to assist students in learning about the many dimensions of agriculture. The course draws upon the knowledge base of a variety of disciplines. The course examines physical and climatic features of Manitoba, the agricultural resource base, soil management practices, crop varieties, and plant and animal science. The course material has been organized into four modules:

Module 1: Manitoba Agriculture: An Overview

Module 2: Soil Science

Module 3: Plant Science

Module 4: Animal Agriculture in Manitoba



SOCIAL STUDIES

Grade 9 Canada in the Contemporary World (10F) 1 credit (2013) **0101 10F 000**

This course explores Canada's social, political and economic characteristics and how they are influenced by geographic and cultural diversity. It also focuses on democracy, the role of the citizen in government, Canada's role in the global village, and the country's responsibilities and potential for leadership regarding current global issues.

The course is structured as follows:

Module 1 – Diversity and Pluralism in Canada
Module 2 – Law, Order and Good Governance
Module 3 – Canada in the Global Context
Module 4 – Canada – Opportunities and Challenges

Provided Resource

- Canadians Living in the Global Village map

Grade 10 Geographic Issues of the 21st Century (20F) 1 credit (2013) **1180 20F 000**

This course explores the role Geography plays in our daily lives. Geography helps people find their way around their neighborhood; buy clothes that suit anticipated changes in weather patterns; plan and pack for long driving and holiday trips. Geographic knowledge and skills can lead to a variety of exciting professions such as being a pilot, an urban planner, or a geologist! In this course students will have the opportunity to research; write personal reflections and essays, and use maps and mapping to gain a deeper understanding of our rapidly-changing world. The course is structured as follows:

Module 1: Geographic Literacy
Module 2: Natural Resources
Module 3: Food from the Land
Module 4: Industry and Trade
Module 5: Urban Places

Grade 11 History of Canada (30F) 1 credit (2012) **0105 30F 000**

This course will investigate the History of Canada from pre-contact time to the present. The course guides students through the *Shaping Canada* textbook that was written specifically for Manitoba. The authors and contributors provide the Manitoban and Canadian historical perspectives that enable students to reflect and respond to the question, *How has Canada's history shaped the Canada of today?*

The textbook will provide all the course content and the course materials provide the learning activities and assignments to be completed after working through the clusters and chapters. The course is structured according to the five clusters as outlined in the *Shaping Canada* textbook.

Cluster 1 First People and Nouvelle-France (before 1763)

Cluster 2 British North America (1763 to 1867)

Cluster 3 Becoming a Sovereign Nation (1867 to 1931)

Cluster 4 Achievements and Challenges (1931 to 1982)

Cluster 5 Defining Contemporary Canada (1982 to present)

Textbooks

- Connor, Hull and Wyatt-Anderson. *Shaping Canada*. McGraw-Hill Ryerson Limited, 2011. (10391) MLRC

Suggested Resource

- Internet access is recommended as there are additional support materials for the course on websites that are listed throughout the course.



PHYSICAL EDUCATION/ HEALTH

Grade 9 Physical Education/
Health (10F)
1 credit (2010) **0169 10F 001A**

This course teaches the concepts and skills for active healthy lifestyles and includes a physical activity component. Students plan and record their participation in physical activities of their choice. This course gives students the opportunity to learn more about themselves and enables them to make more informed decisions about healthy active living throughout their lives.

Grade 10 Physical Education/
Health (20F)
1 credit (2012) **0169 20F 002**

This course builds on the healthy lifestyles and physical activity concepts and practices that you learned in grade 9. This course gives students the opportunity to learn more about themselves and enables them to make more informed decisions about healthy active living, which will provide lifelong benefits. Students plan and record their participation in physical activities of their choice.

