

Grade 8 Courses

ADST 08

The Applied Design, Skills, and Technologies (ADST) 8 curriculum is an experiential, hands-on program of learning through design and creation that includes skills and concepts from Woodwork, Metalwork, Home Economics, Art, and Drama. It fosters the development of the skills and knowledge that will support students in developing practical, creative, and innovative responses to everyday needs and challenges.

CAREER EDUCATION 08

MCE—08 Grade Level 8

The Career Education curriculum supports students in becoming successful, educated citizens by helping them learn how to effectively manage their life journey toward preferred future possibilities. This area of learning requires students to identify and develop their personal interests, passions, and competencies. Students reflect on learning experiences in school and community, build confidence through their contributions, and explore multiple career-life roles and choices.

ENGLISH 8

MEN--8 Grade Level 8

English 8 is an introductory course that provides students with opportunities for personal and intellectual growth through speaking, listening, reading, writing and representing to make meaning of the world and to prepare them to participate effectively in all aspects of society. The course includes studies of contemporary and classic literature.

FRENCH 8

MFR--8 Grade Level 8

This is an introductory course to the French language. It is a communicative program requiring participation in conversations as well as individual and group work. The objective is learning with enjoyment. Memorization of basic concepts is still essential through music and videos. French 8 is a Ministry mandated course.

MATHEMATICS 8

MMA—08L Grade Level 8

This course includes a review of basic operations with an emphasis on fractions. Developing a number sense by learning about square roots and perfect squares, percents, rates, ratios, multiplying and dividing fractions and integers is a major unit. Other units will include data analysis, probability, linear relations, variables and equations, and shape and space. A calculator is needed by all students in the math program. Students will need a scientific calculator (able to do more than basic arithmetic).

PHYS & HEALTH ED 08

MPHE-08 Grade Level 8

The main content of this course includes team games, fitness development and individual sports. The basic skills in each sport will be emphasized. Rules, skills, and enjoyment of physical activity are also part of the focus of PE8; gym strip is required. Activities may include: Dance - folk, line, social fitness - aerobics, cardiovascular endurance, fitness concepts, fitness evaluation, muscular endurance, muscular strength, nutrition. Individual and Dual Activities - badminton, cross-country running, table tennis, and wrestling. Team Games - badminton, basketball, flag football, lacrosse, rugby, soccer, ultimate Frisbee, and volleyball.

SCIENCE 8

MSC--08 Grade Level 8

This is general course is made up of 4 units: Chemistry: Particle Model & Atomic Theory, Biology: Cells & Microorganisms, Physics: Optics Earth Science: Plate Tectonics.

SOCIAL STUDIES 8

MSS--08 Grade Level 8

This course is made up of 2 components: 1) Geography - Cartography (the study of maps) is a major part of the geography component. In addition, students will learn the major political and physical features of the world. 2) History - The study of the European, Asian and Middle Eastern world from medieval times to the 17th century. Sometime will be spent on the study of current affairs and attention is also paid to the development of social interaction skills.

Grade 9 Courses

ADST 9: GENERAL EXPLORATIONS

The Applied Design, Skills, and Technologies (ADST) 9 curriculum is an experiential, hands-on program of learning through design and creation that includes skills and concepts from Woodwork, Metalwork, Home Economics, Art, and Drama. It fosters the development of the skills and knowledge that will support students in developing practical, creative, and innovative responses to everyday needs and challenges.

CAREER EDUCATION 9

MCE--09 Grade Level 9

The Career Education curriculum supports students in becoming successful, educated citizens by helping them learn how to effectively manage their life journey toward preferred future possibilities. This area of learning requires students to identify and develop their personal interests, passions, and competencies. Students reflect on learning experiences in school and community, build confidence through their contributions, and explore multiple career-life roles and choices.

DRAMA 9

MDR--09 Grade Level 9

This course provides opportunities for students to work together in all elements of drama. The course introduces essential elements of character building, stage presence, voice and movement as well as creative drama and improvisation. Many theatrical styles are explored and students will have the opportunity to perform publicly in studio presentations. Students enrolled in this class will be given preference in extracurricular productions. Attendance at drama productions is strongly encouraged.

ENGLISH 9

MEN--09 Grade Level 9

English Language Arts (ELA) 9 is designed to empower students by providing them with strong communication skills, an understanding and appreciation of language and literature, and the capacity to engage fully as literate and responsible citizens in a digital age. Students are guided in their learning to think critically, creatively, and reflectively; to construct a sense of personal and cultural identity; and to be respectful of a range of perspectives and worldviews.

FRENCH 9

MFR--09 Grade Level 9

It is strongly recommended that students attained a Proficient mark in French 8 if choosing French 9. This course offers a continuation of stress on speaking, listening, and writing skills over an enhanced vocabulary base. Writing skills develop into original short compositions; speaking skills develop into the production of short dialogues. Reading for comprehension receives more attention. There is a continuation of French/Quebec culture, music and geography.

INFO & COMM TECH 9

MADIT09 Grade Level 9

This course will introduce students to: managing personal data, keyboarding, components of a computer, binary system, operating systems, and networks. Students will also learn how to create spreadsheets, design and create websites, manipulate graphics using Photoshop, and how to block coding using Scratch.

MATHEMATICS 9

MMA—09L Grade Level 9

This course is designed to provide students with the mathematical understandings and critical-thinking skills for either the Foundations of Mathematics and Pre- Calculus 10, or Workplace Mathematics 10 courses. Topics in the course include Operations with Rational Numbers, Exponents and Exponent Laws, Polynomials, Linear Relations and Equations, Statistics, and Financial Literacy. Due to the nature of the calculations, a scientific calculator is highly recommended for the course.

PHYS & HEALTH ED 9

MPHE-09 Grade Level 9

This course will develop positive behaviors that indicate self-respect and self-confidence while participating in physical activity. Students will be taught to apply the principles of mechanics to improve performance in individual, dual and game activities while also applying and demonstrating basic offensive and defensive strategies in game activities. With regards to the health components of this course, students will cover topics pertaining to mental wellness, the physical, emotional, and social aspects of psychoactive substance use and potentially addictive behaviors, and the development of the skills, and strategies necessary for building respectful relationships, positive self- identity, and self-determination.

SCIENCE 9

MSC--09 Grade Level 9

Science 9 is a general course which is organized into the following curricular areas: the cell cycle and cell components, chemistry, electricity, and energy/the Earth's major spheres. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and communicating using a scientific inquiry model.

SOCIAL STUDIES 9

MSS--09 Grade Level 9

A continuation and further development of curricular competencies introduced in Social Studies 8. Major topics include political, social, economic and technological revolutions, development of colonial Canada, geography of Canada, and World War I. Students will also explore Canada's complicated, and sometimes discriminatory, past by looking at events such as: the Komagata Maru incident, internment camps, the Chinese Head Tax, and treatment of Canadian Indigenous Peoples.

Grade10 Courses

ADST - FOOD STUDIES 10

MFOOD10 Grade Level 10
Credits 4.0

This course will engage with the following subject matter: food safety and security, meal preparation and planning, and cultural eating practices including First Peoples. Students will explore food trends, marketing, nutrition, food systems, and the relationship between mental and physical well-being. A global perspective on food systems will encompass environmental, ethical, economical, and the impact of health. The classroom focus will include food preparation, the role of food, food production, visual appreciation, health and wellness, global food awareness, meal planning and economics.

ADST - POWER TECHNOLOGY 10

MTPOW10 GradeLevel 10
Credits 4.0

Power Technology 10 moves into more complex power systems and technology. We will be exploring and experimenting with Alternative Energy Sources, Hydraulics and Precision Measurements. Emphasis will be placed on, whenever possible, customer service units from the general public or brought in by students, parents or teachers. Pride and care of these units must be demonstrated by all involved. Students will not be permitted to drive, sit in or otherwise be in or around vehicles in the shop that they are not assigned to. Safety, for all personnel and vehicles in the shop, will be strictly enforced. Be aware that senior electives will have students from grades 10-12 in one class.

ADST - COMPUTER STUDIES 10

MCSTU10 GradeLevel 10
Credits 4.0

Computers - Hardware components, software, operating systems, keyboard short- cuts, command line, trouble shooting, maintenance, security. Networking - Protocols and standards, wired and wireless computing, virtual terminal, units, rates, and encoding of data communications, environmental impact of global online access. Applications - Proprietary vs open-source, spreadsheets, word processor, presentations, computational thinking, programming concepts, coding, web design, animations. Robotics - Drones, ozobots, careers in Information Technology.

BA LEADERSHIP 10

YCPA0A GradeLevel 10
Credits 4.0

This course has been created to provide students with exposure and opportunities to develop a sense of pride and responsibility to their community - both through the school as well as the local community. Students will develop qualities of school spirit, initiative, and responsibility by actively participating in, and organizing, school functions and events. Students should be both visible in the school community as well as the local community as active participants and contributors. Students will develop collaboration skills to work as a larger group and also motivation skills to be able to effectively accomplish tasks on their own initiative if need be. Using the planning and communication skill and processes developed in class, students should be able to work effectively as both a team, and individual, to act as a leader in their community.

CAREER LIFE EDUCATION 10

MCLE-10 Grade Level 10
Credits 4.0

Career Life Education is a required course that will enable students to develop career and education plans, make thoughtful decisions, and take responsibility for pursuing their goals. The main components of CLE include: Graduation Planning and Requirements; Education and Career Research; Financial Literacy and Global Economic market conditions; and Community Networking, Innovation, and Entrepreneurship.

COMPOSITION 10

MCMP510 Grade Level 10
Credits 2.0

Composition 10 is designed to support students in their development of written communication through a critical process of questioning, exploring, and sampling. The course builds students' writing competencies by introducing them to varied structures, forms, and styles of compositions. Students have opportunities to individually and collaboratively study, create, and write original pieces, exploring audience and purpose. They will also develop their craft through processes of drafting, reflecting, and revising.

LITERARY STUDIES 10

MLTST10 Grade Level 10
Credits 2.0

Literary Studies 10 is designed for students who are interested in the literature of a particular era, geographical area, or theme, or in the study of literature in general. The course allows students to develop more deeply into literature as they explore specific themes, periods, authors, or areas of the world through literary works in a variety of media.

(Composition and Literary Studies 10 combine to give the 4 required credits of English 10)

DRAMA 10

MDRM-10 Grade Level 10
Credits 4.0

This course provides opportunities for students to work together in all elements of drama. The course introduces essential elements of character building, stage presence, voice and movement as well as creative drama and improvisation. Many theatrical styles are explored, and students will have the opportunity to perform publicly in studio presentations. Students enrolled in this class will be given preference in extracurricular productions. Attendance at drama productions is strongly encouraged.

FDN & PRE-CALC MATH 10

MFMP-10 Grade Level 10
Credits 4.0

It is highly recommended that students are Proficient in Math 9 before choosing Foundations and Pre-Calc 10. In this course, students will continue their exploration with Exponent Laws covered in Math 9. Additionally, this course covers a variety of topics, such as Functions and Relations, primarily focused on Systems of Linear Equations, Arithmetic Sequences, Operations with Polynomials, including multiplication and factoring, Primary Trigonometric Ratios, and Financial Literacy in terms of Net and Gross Pay. Due to the nature of the calculations, a scientific calculator is highly recommended for the course.

FRENCH 10

MFR--10 Grade Level 10
Credits 4.0

It is strongly recommended that students are Proficient in French 9 if choosing French 10. French 10 continues vocabulary building and grammatical structures. Oral and written communications are stressed. The production of conversations and the writing of original stories in French are expected. The reading program becomes an important aid in cultural and academic development. There is much culture and music at this level, with a focus on Montreal, France and Switzerland.

METALWORK 10

MTMET10 Grade Level 10
Credits 4.0

This program moves further into expanding skills from Grade 9 Metal Work. Students will be required to demonstrate competency in various forms of welding such as Oxy-Acetylene, MIG, TIG, and Arc as well as various forms of cutting. Some basic Machining Processes will be included. Students will be required to demonstrate competencies in precision measuring equipment. Additional coverage of Plasma Technologies will be explored. Safety, for all personnel and equipment in the shop, will be strictly enforced. For most work, clothing with synthetic materials must be either covered or replaced with cotton or wool fiber material. Synthetics may melt to the skin causing burns when subjected to sparks or hot materials. Student derived project work may include charges for some materials used. Be aware that senior electives will have students from grades 10-12 in one class.

PHYSICAL AND HEALTH EDUCATION 10

MPHED10 Grade Level 10
Credits 4.0

This course will promote the desire for lifelong engagement in physical activity and health through an encouraging and supportive environment. By focusing on individual progress, each student will be empowered to improve and maintain their everyday practice of physical fitness, wellness, and nutrition. Students will use their previous knowledge and skills to participate in individual, dual and team game play. Throughout the course, students will have the opportunity to provide input on course activities. While participating in these areas of interest they will work to achieve individual goals. Building on the health concepts of PHE 9, students will demonstrate the knowledge, skills, and strategies needed to make informed decisions that support personal and community health and safety.

SCIENCE 10

MSC--10 Grade Level 10
Credits 4.0

Science 10 is a general science course which included the following curricular areas: genetics, chemistry, energy transfer in natural systems, and space. This course allows students to explore a number of different scientific areas before deciding on areas to focus on in their Grade 11 and Grade 12 courses. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

SOCIAL STUDIES 10

MSS--10 Grade Level 10
Credits 4.0

A continuation and further development of curricular competencies introduced in Social Studies 9. Major topics include: the government structure of Canada and First Peoples, inter war years, World War II, post war diplomacy, the Cold War, globalization and economic development. These events will be looked at on both a global and a Canadian level. Modern Canadian issues will also be discussed in a global context.

VISUAL ARTS: ART STUDIO 10

MVAST10 Grade Level 10
Credits 4.0

For the beginner as well as the advanced art student, this generalist course provides dynamic exposure across the entire visual art discipline. Each month provides a new opportunity to work with different mediums of drawing, painting, ceramics and graphics. If you enjoy art, this course will provide you with a good starting point. Be aware that senior electives will have students from grades 10-12 in one class.

Volleyball PE 10

MPHED-VB 10 Grade Level 10
Credits 4.0

This course is designed to maintain or enhance personal fitness while focusing on the sport of volleyball. Students will improve their fundamental skills through drills, games, and technique analysis. Students will also gain an understanding of volleyball strategy while learning multiple defensive and offensive systems. A variety of training techniques will be used to help students improve their performance and achieve their personal goals.

WOODWORK 10

MWWK-10 Grade Level 10
Credits 4.0

This course is the advanced form of the Technology Education Wood 9 class. A variety of projects will be assigned such as: salad tongs, mechanical pens, band saw boxes, wine bottle holders and folding tables. You do not repeat the same projects if you have already taken Wood 9 as the course work rotates every other year. Be aware that senior electives will have students from grades 10-12 in one class.

WORKPLACE MATHEMATICS 10

MWPM-10 Grade Level 10
Credits 4.0

*This course is designed to provide students with an introduction to the mathematical understandings and competencies identified for entry into the workforce and some post-secondary programs. It covers topics such as Statistical Analysis with graphs, experimental Probability, Financial Literacy, Primary Trigonometric Ratios, Measurement Conversions, and Surface area and Volume. **Following the Workplace Mathematics 10 course, students will be enrolled into Workplace Mathematics 11. Students intending on pursuing post-secondary education should ensure that this course satisfies post-secondary admission requirements.***

WORK EXPERIENCE

WEX 12A WEX 12B

*If you are in grades 10-12, have a job, and would like to get school credits for the employment skills you are gaining in the workplace, come & see your Career Coordinator (Mrs. Meyer) in the Career Programs office or call/email and we can sign you up for Work Experience. Work Experience (WEX 12A/WEX 12B) can count as credits for up to two full courses with some applied coursework. **You cannot apply for WEX through the Course Selection process, you must see Mrs. Meyer to apply!***

YEARBOOK 10

MVAM-10 Grade Level 10
Credits 4.0

This challenging course runs for three hours per week (plus production time) outside of the school timetable for all four terms. A cooperative team approach develops many skills required in the workplace. This is a graphic design and journalism-related course with the primary objective of producing the school yearbook. Classroom instruction will include desktop publishing with PageMaker 6.5, writing, photography, journalism principles and skills, layout design, computer graphic design, interviewing, advertising and marketing. At the grade 12 level, students have leadership opportunities that lead to highly valued personal skills in the marketplace. Class size is limited and enrollment is subject to teacher approval.

Grade11 Courses

ACTIVE LIVING 11

MACLV11 GradeLevel 11
Credits 4.0

This class will include individual and group activities and healthy living. Activities may include learn to walk/run program, minor games, Yoga, hiking, study of nutrition, and development of personal fitness plans.

AUTOMOTIVE TECHNOLOGY 11

MTAUT11 Grade Level 11
Credits 4.0

The focus of this course will be involvement with varied forms of power units in cars, trucks, motorcycles and/or snowmobiles. Preference will be given to student projects that fit into the student's interests and capabilities as determined by the instructor. There will be theory classes and successful completion of the tests and quizzes will be required prior to shop work. All costs incurred on projects will be the responsibility of the owner and the vehicle will not be released prior to full payment. We cannot be involved in any Body Work Type projects. Students will not be permitted to drive, sit in or otherwise be in or around vehicles in the shop that they are not assigned to. Safety, for all personnel and vehicles in the shop, will be strictly enforced. Be aware that senior electives will have students from grades 10-12 in one class.

BA LEADERSHIP 11

YCPA-1A GradeLevel 11
Credits 4.0

This course has been created to further provide students with the opportunities to develop a sense of pride and responsibility to their community - both through the school as well as the local community. This course assumes that the student has had exposure to themes surrounding leadership and social justice, most likely from Leadership 10. Students will continue to develop the qualities of school pride, initiative, and responsibility by actively participating in, and organizing, school functions and events. Students should be both visible in the school community as well as the local community as active participants and active participants and contributors. Students will develop collaboration skills to work as a larger group and also motivation skills to be able to effectively accomplish tasks on their own initiative if need be. Using the planning and communication skills and processes developed in class, students should be able to work effectively as both a team, and individual, to act as a leader in their community.

BA PEER TUTORING 11

YIPS-1A Grade Level 11
Credits 4.0

To Peer Tutor in Academic Courses teacher approval is highly recommended! This course will be offered to those students who enjoy helping others, have a solid academic standing, attend regularly and are conscientious. Peer tutoring provides students with an opportunity to assist other students by working with an individual student to improve academic performance or with a class to help with daily progress. To Peer Tutor in Applied Skills Courses teacher approval is highly recommended! This course is offered to those students who wish to pursue experiences and technical knowledge beyond the basic scope of an applied skill course. These tutors help individual students as well as the class as a whole to work safely and effectively. Students will be able to develop their leadership skills while acting as role models for younger students.

CAREER-LIFE CONNECTIONS

MCLC-12 Grade Level 11
Credits 4.0

CLC is required for graduation and builds on the skills developed in CLE. Students in CLC will work through three main content areas: Personal Development; Connections to Community; and Career Life Planning. CLC includes the CAPSTONE, a culminating project, presentation, or performance that will allow students the opportunity to consolidate and showcase the learning from their school and life experience into a meaningful and relevant product. CLC is a full year, out of the timetable course.

CHEMISTRY 11

MCH--11 Grade Level 11
Credits 4.0

Recommended Pre-Requisite: A strong standing in SC10 Chemistry 11 introduces students to a number of different curricular areas within Chemistry and allows them to apply molecular theories to chemical and physical properties of matter. The curricular areas include: atoms and molecules, the mole theory, chemical reactions, solution chemistry, and organic chemistry. This course requires students to apply their understanding of concepts through a number of different hands-on laboratories. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

COMPUTER INFORMATION SYSTEMS 11

MCINF11 Grade Level 11
Credits 4.0

Computers - Hardware components, software, operating systems, keyboard short-cuts, command line, trouble shooting, maintenance, security. Networking - Protocols and standards, wired and wireless computing, virtual terminal, units, rates, and encoding of data communications, environmental impact of global online access. Applications - Proprietary vs open-source, spreadsheets, word processor, presentations, computational thinking, programming concepts, coding, web design, animations. Robotics - Drones, Ozobots, and Careers in Information Technology

DRAMA 11

MDRM-11 Grade Level 11
Credits 4.0

Drama 11 involves advanced work in performance areas: mime, improvisation and introductions to reader's theatre, scripted scenes, character analysis, theatre history, and play production. Class projects may be developed and be shown to the school or public.

EXPLORATIONS IN SOCIAL STUDIES 11

MEPSS11 Grade Level 11
Credits 4.0

This course is suitable for students who would like to take an active role in their learning as the course can be tailored to their interests. Major topics include, but are not limited to: Socio, cultural or economic developments, colonialism and its impacts, environmental issues, social justice issues, human rights developments, modern global issues and authenticity and media studies.

FITNESS AND CONDITIONING 11

MFTCD11 Grade Level 11
Credits 4.0

This course is designed to maintain or enhance personal fitness through participating in a variety of activities at different intensity levels, to increase student knowledge of our body movement and function while staying safe during exercise, to follow proper training guidelines and techniques to help us reach our health and fitness goals and to provide the knowledge needed to make healthy choices to reach our health and fitness goals.

FOOD STUDIES 11

MFOOD11 Grade Level 11
Credits 4.0

The focus of this course is to plan and prepare nutritious food. The course explores many current issues in food. Some of the topics covered include ethnic foods and bread making. Students will plan and prepare meals and bake as well as study nutrition and food safety and storage. Be aware that senior electives will have students from grades 10-12 in one class.

FRENCH 11

MFR11 Grade Level 11
Credits 4.0

Prerequisite: It is strongly recommended that students have a strong standing in French 10. In this course, communication in French is expected as further grammatical structures are introduced. Comprehension of the written and especially spoken language is stressed. The reading segment examines poetry, songs and stories as literature as well as for comprehension. This course meets the language requirement for university entrance.

LIFE SCIENCES 11 (Biology 11)

MLFSC11 Grade Level 11
Credits 4.0

Life Sciences 11 is organized into the following big ideas: characteristics of living things, the process of evolution, and taxonomy (how living things are organized). These big ideas will be continually visited through curricular areas of ecology, adaptation/evolution, microbiology, plant biology, and animal biology. A large part of the curriculum is focused on plant and animal biology. Students will be required to actively participate in a number of different hands-on laboratories and dissections in order to develop an understanding of curricular concepts. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

LITERARY STUDIES 11

MLTST11 Grade Level 11
Credits 4.0

Literary Studies 11 allows students to delve deeply into literature. Students can explore specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of media. Giving students the choice of a range of literary topics allows them to follow their passion and at the same time:

- increase their literacy skills through close reading of appropriately challenging texts
- enhance their development of the English Language Arts curricular competencies, both expressive and receptive
- expand their development as educated global citizens
- develop balance and broaden their understanding of themselves and the world
- further develop balance and broaden their understanding of themselves and the world
- further develop higher-level thinking and learning skills.

METALWORK 11

MTMET11 Credits
Credits 4.0

Most of the Technologies and processes offered in Metal Work 11 are extensions of the learning from Metal Work 9 and 10. Here the emphasis is shifting from basic competencies to precision and accuracy as well as quality of workmanship. Safety, for all personnel and equipment in the shop, will be strictly enforced. For most work clothing with synthetic materials must be either covered or replaced with cotton or wool fiber material. Synthetics may melt to the skin causing burns when subjected to sparks or hot materials. Be aware that senior electives will have students from grades 10-12 in one class.

PHYSICS 11

MPH--11 Grade Level 11
Credits 4.0

Physics 11 will introduce students to the following big ideas: kinematics (motion), dynamics (forces), momentum, energy, and electrical circuits. Additional big ideas that may be addressed include: waves/optics, quantum mechanics, special relativity, and nuclear physics. It is recommended that students thinking about taking Physics have a strong foundation in both math and science. This course is designed for students with an inquisitive nature and a willingness to work. This course requires students to apply their understanding of concepts through a number of different hands-on laboratories. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

PRE-CALCULUS 11

MPREC11 Grade Level 11
Credits 4.0

Recommended Prerequisite: Foundations/Pre-calculus Math 10

This course is designed to prepare students for a program after high school that has a pre-calculus requirement. Students will be extending their understanding of linear and equations to a number of other non-linear relationships and equations (radicals, absolute values, rationales and degree 2). Students will extend their understanding of right-angle trigonometry to angles greater than 90 degrees and also look at sequences and series of numbers. This course fulfills the mathematics requirement for graduation and can be used for entrance into post-secondary. A scientific calculator (one that has sin, cos, and tan) is required for this course.

SCIENCE FOR CITIZENS 11

MSCCT11 GradeLevel 11
Credits 4.0

Science for Citizens takes on a more practical view of science and how it affects our everyday lives. This course is focused on the following big ideas: science informs our decisions and impacts our daily lives, science has everyday uses and safety implications in the workplace, and science helps explain how natural changes and human choices affect global systems. Curricular content focuses on personal/home science, local/workplace science, and global science. Students will complete a number of projects and laboratories in order to develop an understanding of curricular concepts. In addition, students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

VISUAL ARTS: ART STUDIO 11

MVAST11 Grade Level 11
Credits 4.0

Visual Arts Studio 11 is designed to meet the needs of students who wish to continue their education in art and to continue their artistic interests into the future. Independent assignments allow you the freedom to focus on your own area of interest. Be aware that senior electives will have students from grades 10-12 in one class.

Volleyball PE 11

MACLV 11-VB Grade Level 11
Credits 4.0

This course is designed to maintain or enhance personal fitness while focusing on the sport of volleyball. Students will improve their fundamental skills through drills, games, and technique analysis. Students will also gain an understanding of volleyball strategy while learning multiple defensive and offensive systems. A variety of training techniques will be used to help students improve their performance and achieve their personal goals.

WOODWORK 11

MWWK-11 Grade Level 11
Credits 4.0

Prerequisite: Wood Technology 9 or 10 is recommended. This course offers advanced construction techniques and skills and information for students who want to produce projects displaying a high degree of craftsmanship. This is a project-oriented course using both hand tools and power tools with an emphasis placed on safe shop behavior. Students will have input into the design and construction of their final projects. Assigned projects may include puzzles, band saw boxes, cabriole leg furniture, lamps and garden furniture. Be aware that senior electives will have students from grades 10-12 in one class.

WORK EXPERIENCE

WEX 12A WEX 12B
Credits

*If you are in grades 10-12, have a job, and would like to get school credits for the employment skills you are gaining in the workplace, come & see your Career Coordinator (Mrs. Meyer) in the Career Programs office or call/email and we can sign you up for Work Experience. Work Experience (WEX 12A/WEX 12B) can count as credits for up to two full courses with some applied coursework. **You cannot apply for WEX through the Course Selection process, you must see Mrs. Meyer to apply!***

WORKPLACE MATHEMATICS 11

MWPM-11 GradeLevel 11
Credits 4.0

*This course is designed to provide students with the mathematical understandings and competencies identified for both entry into the world of work and some post- secondary programs. It covers topics such as Financial Literacy, Interpreting Graphs, Statistics and Probability, and working with 3D models. Students will work on their problem-solving skills on contextualized problems and apply those skills directly to hands-on projects. **This course satisfies the minimum math requirement for graduation. Students intending on pursuing post-secondary education should ensure that this course satisfies post-secondary admission requirements.***

YEARBOOK 11

MVAMT11 Grade Level 11
Credits 4.0

This challenging course runs for three hours per week (plus production time) outside of the school timetable for all four terms. A cooperative team approach develops many skills required in the workplace. This is a graphic design and journalism-related course with the primary objective of producing the school yearbook. Classroom instruction will include desktop publishing with PageMaker 6.5, writing, photograph, journalism principles and skills, layout design, computer graphic design, interviewing, advertising and marketing. At the grade 12 level, students have leadership opportunities that lead to highly valued personal skills in the marketplace.

Grade 12 Courses

ACTIVE LIVING 12

MACLV12 GradeLevel 12
Credits 4.0

Active Living - This class will include individual and group activities in a non-competitive setting that are suitable for a lifetime of fun and healthy living. Activities may include learn to walk/run program, minor games, yoga, hiking, study of nutrition and development of personal fitness plans.

ANATOMY AND PHYSIOLOGY 12 (Biology 12)

MATPH12 GradeLevel 12
Credits 4.0

Anatomy and Physiology is organized into the following three big ideas: homeostasis (normal body conditions), DNA/Cells, and body organization. These big ideas will be continually visited through the curricular areas of cell structure, cell processes, biochemistry, digestive system, circulatory system, respiratory system, nervous system, excretory system, and reproductive system. A large part of the curriculum is focused on the human anatomy including functional/structural features and the relationships between the body systems. Students will be required to actively participate in a number of different hands-on laboratories and dissections in order to develop an understanding of curricular concepts. This is an interesting but very demanding course. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

ART METAL AND JEWELLERY 12

MTAMJ12 GradeLevel 12
Credits 4.0

Students will gain an understanding and an appreciation of the various forms of artistic and aesthetic expressions while using metals through hands-on applied learning. Students will learn to apply problem solving practices to produce artistic artifacts in the metal shop. Work procedures and shop routines will be taught and demonstrated as needed to ensure a safe work environment. Shop skills will be taught with an emphasis on safe procedures. The course material is presented in six units, the last four being divided into three sections each: Research and Experiment, Personal Development, Documenting and Communicating about the final product. Each unit is based on different materials, skills, and procedures. Be aware that senior electives will have students from grades 10-12 in one class.

AUTOMOTIVE TECHNOLOGY 12

MTAUT12 Grade Level 12
Credits 4.0

This is a progression of the learning and mastery of the class in Grade 11. Projects are again encouraged, under the same guidelines as the previous class. Work Experience may be a portion of the student's learning at this level. Students who successfully meet the desired outcomes of the class will be encouraged to connect with the career coordinator to sign up for Work Experience 12A. Completion of assignments, successful theory exams and attendance is integral. All costs incurred on projects will be the responsibility of the owner and the vehicle will not be release prior to full payment. We cannot be involved in any Body Work Type Projects. Students will not be permitted to drive, sit in or otherwise be in or around vehicles in the shop that they are not assigned to. Safety, for all personnel and vehicles in the shop, will be strictly enforced. Be aware that senior electives will have students from grades 10-12 in one class.

BA LEADERSHIP 12

YCPA2A Grade Level 12
Credits 4.0

This course has been created to further provide students with the opportunities to develop a sense of pride and responsibility to their community - both through the school as well as the local community. This course assumes that the student has had exposure to themes surrounding leadership and social justice, most likely from Leadership 10 and/ or 11. Students will continue to develop the qualities of school pride, initiative, and responsibility by actively participating in, and organizing, school functions and events. Students should be both visible in the school community as well as the local community as active participants and contributors. Students will develop collaboration skills to work as a larger group and also motivation skills to be able to effectively accomplish tasks on their own initiative if need be. Using the planning and communication skills and processes developed in class, students should be able to work effectively as both a team member and individual, and to act as a leader in their community.

BA PEER TUTORING 12

YIPS12 Grade Level 12
Credits 4.0

To Peer Tutor in an Academic Course teacher approval is strongly recommended! This course will be offered to those students who enjoy helping others, have a solid academic standing, attend regularly and are conscientious. Peer tutoring provides students with an opportunity to assist other students by working with an individual student to improve academic performance or with a class to help with daily progress. To Peer Tutor in an Applied Skills Course teacher approval is strongly recommended! This course is offered to those students who wish to pursue experiences and technical knowledge beyond the basic scope of an applied skill course. These tutors help individual students as well as the class as a whole to work safely and effectively. Students will be able to develop their leadership skills while acting as role models for younger students.

BA PSYCHOLOGY 12

YPSY12 Grade Level 12
Credits 4.0

This course is designed as an introductory survey course in the field of psychology. Students who have a general interest in the workings of the human mind and behaviour will find this course applicable and interesting. Psychology 12 not only explores the science behind brain functions, but also looks at the causes of certain behaviours, thinking and intelligence, emotion, stress and the effects of alcohol and drugs. Special topics also include cults, serial killers, psychological conditions and clinical treatment.

BC FIRST PEOPLES 12

MBCFP12 GradeLevel 12
Credits 4.0

This course is designed to provide students with active and interactive learning opportunities to better understand the First Nations people, in what is now known as British Columbia. This includes the Okanagan peoples. The students will learn about some of the traditions, values, beliefs, philosophies and issues within historical, contemporary and future contexts. Topics range from origins and roots, governance, differences and similarities among First Nations peoples in this part of Turtle Island, stereotyping, racism, current issues, what is going on in our own back yard and considering how this affects you. This course meets the Social Studies graduation requirements.

CALCULUS 12

MCALC12 Grade Level 12
Credits 4.0

Calculus 12 will give students a basic understanding of calculus which will particularly help those who wish to go into post-secondary math, science, engineering, business, or computer science programs. The course focuses on four big ideas. The concept of a limit is foundational to calculus. Differential calculus develops the concept of instantaneous rate of change. Integral calculus develops the concept of determining a product involving a continuously changing quantity over an interval. Derivates and integrals are inversely related. Students require a solid understanding of algebra, trigonometry and logarithms to be successful in this course and should have achieved a good grade in Pre-Calculus 12 before pursuing this course.

CHEMISTRY 12

MCH--12 Grade Level 12
Credits 4.0

Recommended Pre – Requisite: CH11

Chemistry 12 is focused on the following big ideas: reaction kinetics, dynamic equilibrium, solubility equilibrium, acids and bases, and oxidation/reduction chemistry. Within these big ideas, curricular concepts of reaction rates, forward and reverse reactions, influencing reaction direction, acid and base chemistry, solubility, and electrochemistry will all be addressed. This course requires students to apply their understanding of concepts through a number of different hands-on laboratories. It is recommended that students have already completed a Math 11 course as algebraic principles will be applied throughout the curriculum. This is a demanding course that requires daily attention. Students will be required to demonstrate the curricular competencies of questioning and predicting, planning and conducting, processing and analyzing information, evaluating, applying and innovating, and communicating using a scientific inquiry model.

COMPUTER INFORMATION SYSTEMS 12

MCINF12 Grade Level 12
Credits 4.0

Computers - Hardware components, software, operating systems, keyboard short-cuts, command line, trouble shooting, maintenance, security. Networking - Protocols and standards, wired and wireless computing, virtual terminal, units, rates, and encoding of data communications, environmental impact of global online access. Applications - Proprietary vs open-source, spreadsheets, word processor, presentations, computational thinking, programming concepts, coding, web design, animations. Robotics - Drones, ozobots. Suitable for Careers in Information Technology.

CREATIVE WRITING 12

MCTWR12 GradeLevel 12
Credits 4.0

Creative Writing is designed to give students the opportunity to think and write creatively, and to discover their interests and talents as writers. Creative Writing will build on students' strengths and aid in the development of critical skills. This course will explore a variety of written genres, which will be dependent on student interest.

DRAMA 12

MDRM 12 Grade Level 12
Credits 4.0

In-depth studies centered around actual productions, problem solving, and design techniques. A major performance may be performed for the school or the public. Extra out-of-class time may be required to rehearse and perform after school, in the evening, and on weekends.

ENGLISH STUDIES 12

MENST12 Grade Level 12
Credits 4.0

English Studies 12 builds on and extends students' previous learning experiences in ELA 10 and 11 courses. It is designed for all students and provides them with opportunities to: - refine their ability to communicate effectively in a variety of contexts and to achieve their personal and career goals - think critically and creatively about the uses of language - explore texts from a variety of sources, in multiple modes, and that reflect diverse worldviews - deepen their understanding of themselves and others in a changing world - gain insight into the diverse factors that shape identity - appreciate the importance of self-representation through text - contribute to Reconciliation by building greater understanding of the knowledge and perspectives of First Peoples to expand their understanding of what it means to be educated Canadian and global citizens.

FITNESS AND CONDITIONING 12

MFTCD12 Grade Level 12
Credits 4.0

This course is designed to maintain or enhance personal fitness through participating in a variety of activities at different intensity levels, to increase student knowledge of our body movement and function while staying safe during exercise, to follow proper training guidelines and techniques to help us reach our health and fitness goals and to analyze how personal choices influence our health and fitness goals.

FOOD STUDIES 12

MFOOD12 Grade Level 12
Credits 4.0

This course emphasizes previous cooking experience and theory with an opportunity to explore more complex cookery techniques. Advanced food preparation principles, techniques, terminology and equipment are looked at in this course which surveys a broad range of cookery including appetizers, soups, sauces, bread dough, cakes, eggs and milk with consideration given to special diets, special occasions and multicultural dishes. There is an emphasis on the preparation of a wide variety of meals. Sound nutrition and good food-prep hygiene are practiced. Be aware that senior electives will have students from grades 10-12 in one class.

FRENCH 12

MFR--12 Grade Level 12
Credits 4.00 Recommended

Pre-Requisite: FR11 with a strong standing.

French 12 covers a wide range of fairly sophisticated language and literature. Poems, songs, stories and plays are examined as literary pieces. Comprehension and production of spoken and written French are expected. Please note that 60% of the classroom mark is dedicated to oral and listening skills.

LAW STUDIES 12

MLST-12 Grade Level 12
Credits 4.00

Understanding the legal system of one's country is an important part of being a citizen. Law 12 is designed to give students a full understanding of the structures, conventions, laws, rights, and history. Law 12 will also allow students to develop skills associated with law, democracy, and law professions. Students will practice oratory skills, debate, persuasive writing, legal language interpretation and application of the legal system to their personal lives.

METALWORK 12

MTMET12 GradeLevel 12
Credits 4.0

This course, usually taught in conjunction with Metal Work 11, is a further and deeper dive into the exercises taught in Metal Work 11. Students who successfully meet the desired outcomes of the class will be encouraged to connect with the career coordinator to sign up for Work Experience 12A. These would be successful completion of tests and project work. Students must always have a good attendance record and a willingness to be working. Safety, for all personnel and equipment in the shop, will be strictly enforced. For most work clothing with synthetic materials must be either covered or replaced with cotton or wool fiber material. Synthetics may melt to the skin causing burns when subjected to sparks or hot materials. Be aware that senior electives will have students from grades 10-12 in one class.

PHYSICS 12

MPH--12 Grade Level 12
Credits 4.0

Physics 12 introduces students to an understanding of concepts in the two dimensional world. The following big ideas will be addressed in the 2D framework: kinematics (motion), dynamics (forces), and momentum and energy. Additional big ideas that may be addressed include electrostatics, electromagnetic forces and induction, equilibrium, and circular motion and gravitation. Physics 12 is an extension of Physics 11, taking some topics to greater depth and introducing several new topics. This course requires students to apply their understanding of concepts through a number of different hands on laboratories. It is recommended that students thinking about taking Physics 12 have a strong foundation in Math and Physics 11. Students who plan to continue studies in sciences, technologies, and engineering should take both Physics 11 and 12.

PRE-CALCULUS 12

MPREC12 Grade Level 12
Credits 4.0

In this course, students begin an in-depth examination of Functions and their relationships. Types of functions covered include Trigonometric Functions, Exponential and Logarithmic Functions, Polynomial Functions, and Rational Functions. Additionally, students are also introduced to Series and Sequences, and work with different number patterns, systems, and relations. This course is designed to provide students with a good understanding of mathematical representations to prepare them for a science-focused degree in University.

Required: Pre-Calculus 11, OR Foundations of Math 12

VISUAL ARTS: ART STUDIO 12

MVAST12 Grade Level 12
Credits 4.0

Portfolio preparation and presentation: Art Studio 12 is designed to meet the needs of students who wish to either continue their education in art at the post- secondary level, or to continue their artistic interests into the future. Independent assignments allow you the freedom to focus on your own area of interest. Be aware that senior electives will have students

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from grades 10-12 in one class.

Volleyball PE 12

MACLV 12-VB Grade Level 12
Credits 4.0

This course is designed to maintain or enhance personal fitness while focusing on the sport of volleyball. Students will improve their fundamental skills through drills, games, and technique analysis. Students will also gain an understanding of volleyball strategy while learning multiple defensive and offensive systems. A variety of training techniques will be used to help students improve their performance and achieve their personal goals.

WOODWORK 12

MWWK-12 Grade Level 12
Credits 4.0

Prerequisite: Wood Technology 9 OR 10 is recommended.

This course offers advanced construction techniques and skills and information for students who want to produce projects displaying a high degree of craftsmanship. This is a project-oriented course using both hand tools and power tools with an emphasis placed on safe shop behavior. Students will have input into the design and construction of their final projects. Assigned projects may include puzzles, band saw boxes, cabriole leg furniture, lamps and garden furniture. Take a second block in grade 12 to work on your \$1,500 District Scholarship wood project. Be aware that senior electives will have students from grades 10-12 in one class.

WORK EXPERIENCE

WEX 12A WEX 12B

*If you are in grades 10-12, have a job, and would like to get school credits for the employment skills you are gaining in the workplace, come & see your Career Coordinator (Mrs. Meyer) in the Career Programs office or call/email and we can sign you up for Work Experience. Work Experience (WEX 12A/WEX 12B) can count as credits for up to two full courses with some applied coursework. **You cannot apply for WEX through the Course Selection process, you must see Mrs. Meyer to apply!***

YEARBOOK 12

MVAMT12 Grade Level 12
Credits 4.0

This challenging course runs for three hours per week (plus production time) outside of the school timetable for all four terms. A cooperative team approach develops many skills required in the workplace. This is a graphic design and journalism-related course with the primary objective of producing the school yearbook. Classroom instruction will include desktop publishing with PageMaker 6.5, writing, photograph, journalism principles and skills, layout design, computer graphic design, interviewing, advertising and marketing. At the grade 12 level, students have leadership opportunities that lead to highly valued personal skills in the marketplace. Class size is limited and enrollment is subject to teacher approval.

Fitness & Conditioning (Linear) 10-12 MPHED 10, MFTCD 11, MFTCD 12

This course is designed to maintain or enhance personal fitness through participation in a variety of activities, at various intensity levels. Student will increase their knowledge anatomy and body movement, while setting personal goals and developing individual training programs. Students will also gain an understanding of how safe training practices and personal choices can influence their health and fitness goals.