

Online High School 2022/2023

Course Guide

Introduction	4
Registration Procedures	4
Course Credits	5
Admission to Post-Secondary Institutions	6
Guidelines to Planning Your Program	6
Grade 10	6
Grade 11	7
Grade 12	7
Course Prerequisites	8
Alberta High School Diploma Requirements	9
K&E Certificate of Achievement Requirements	10
English Language Arts	11
English Language Arts 10-1	11
English Language Arts 10-2	11
English Language Arts 20-1	12
English Language Arts 20-2	12
English Language Arts 30-1	12
English Language Arts 30-2	13
Mathematics	14
Goals of Course Sequences	14
Design of Course Sequences (Streams)	14
Math 10C	15
Math 20-1	15
Math 20-2	16
Math 30-1	16
Math 30-2	16
Math 10-3, 20-3, & 30-3	17
Math 31	17
Science (Biology, Chemistry, Physics, and Science)	18
Biology	18
Biology 20	18
Biology 30	19
Chemistry	19
Chemistry 20	19

Chemistry 30	19
Physics	20
Physics 20	20
Physics 30	20
Science	20
Science 10	21
Science 14	21
Science 20	21
Science 24	22
Science 30	22
Social Studies	23
Social Studies 10-1	23
Social Studies 10-2	23
Social Studies 20-1	23
Social Studies 20-2	24
Social Studies 30-1	24
Social Studies 30-2	24
Additional Required Courses	25
Option (or Elective) Courses	26
Work Experience	34
WeConnect	35

Introduction

This course guide is designed to provide you with assistance in planning your high school program. It is imperative that you take care in planning your course selections so that you keep your career and post-secondary options as open and flexible as possible. If you have a career in mind, check the university or technical institute prerequisites to get an idea of what is required, and share your plan with your guidance counsellor so that you can ensure that you enroll in the courses that you need. Consider taking the most challenging level of courses at which you can be successful in order to challenge yourself and ensure that you have the most post-secondary options possible.

Remember, if you or your parents have any questions or concerns about courses or programs, ask for assistance prior to classes starting, because once the semester has begun, changes are often more difficult to accomplish since some courses fill up.

Registration Procedures

1. **REGISTRATION:** Course selection will be done online through the PowerSchool Parent/Student Portal (students and/or parents must be able to log into the PowerSchool Parent/Student Portal in order to register). Recommendations for placement in core courses will be based on prerequisite marks as indicated in the “Course Description” section of this booklet. Students not having the proper prerequisite may be placed in the lower course offering.
2. **ADVANCE REGISTRATION:** The responsibility rests on the student to know the requirements of a high school diploma and to seek out the necessary help in making some longer-range career plans. Students should discuss their program selection and course choices with parents and guidance counsellors or school administrators. Every effort will be made to give the student his/her first choice of courses.
3. **COURSE CHANGES:** Students are advised to select carefully since the entire school schedule is based on the total number of student requests for each course. The counsellor will be available by appointment the week before school opens in September to make any necessary changes.

-
4. **GRADE 9 PREREQUISITES:** In order to register in Science 10, English 10-1, Math 10C and Social Studies 10- 1, the student should achieve at least 60% in the correlating grade 9 level of each course. Students failing a Grade 9 course will automatically be directed to English 10-2, Social Studies 10-2, Math 10-3, or Science 14 depending on which course they failed, or possibly the Knowledge and Employability (K&E) program if the student is not able to perform at grade level and requires a modified curriculum. For example, a student in English 9 with a final of 45% will be automatically placed in English 10-2.

Course Credits

1. Each course taken at Online High School, starting in Grade 10, is assigned a credit value according to the following scheme:
 - A course taken for one quarter of the year typically has a value of three (3) credits.
 - A course taken over a full semester has a value of five (5) credits.
 - Career and Technology Studies (CTS) modules have a value of one (1) credit per module. This means that students can progress through CTS courses at a more independent rate. Students are advised to check with their CTS teacher to see how many modules are expected to be completed and at what rate.
2. A **minimum of 100 credits** is required for a High School Diploma (specific details to follow later in this document).
3. Diploma Exams
 - Provincial diploma examinations will be written in grade 12 core classes.
 - To receive credit in these courses, students will be required to write the provincial diploma examinations and obtain a total course mark of 50% or better. The student's final course mark will consist of a 70% weighting of the school-awarded mark, and a 30% weighting from the provincial diploma examination mark unless Alberta Education sees reason to alter the weighting in a given year.
4. Rules Governing Awarding of Credits
 - A **minimum of 50%** is required to receive credits in all courses.
 - Though courses are taught online, students are expected to attend synchronous sessions. Attendance will be taken at each session.

Admission to Post-Secondary Institutions

Post-secondary entrance requirements may vary in different institutions and may sometimes even change from one year to the next. Students who are considering university should check the requirements of admission to each faculty and choose their subjects accordingly.

Guidelines to Planning Your Program

1. Students have two main goals:
 - Graduate from high school (achieve the credit requirements to receive a High School Diploma or Certificate of Completion).
 - Many students will also want to meet the prerequisites for further post-secondary education.
2. Career plans tend to change throughout high school. Students should consider taking courses that can maximize their career opportunities.

Grade 10

- It is important for grade 10 students to think in terms of long-range planning since many of the decisions made now will impact the pursuit of certain career opportunities. Students are encouraged to realistically assess their academic potential, research the requirements for different types of careers, then choose their courses to keep as many doors open as possible. Students need to remember that post-secondary entrance requirements vary from institution to institution (and sometimes from year to year), and each program has its own requirements.
- The goal of each student should be to choose a timetable that allows him/her to keep as many doors open as possible.
- To meet the Alberta High School Diploma requirements, a student's program must include certain courses as listed in the Alberta High School Diploma Requirements section.

Grade 11

- Should a student lack credits in any compulsory Grade 10 course, the course(s) should be re-taken during Grade 11.
- Students must register in courses to fulfill high school diploma requirements (refer to the Alberta High School Diploma Requirements section).
- Students should choose options (elective courses) in addition to their core courses to bring their credit total to *at least* 35 credits.

Grade 12

- Should a student lack credits in any compulsory Grade 10 **or** Grade 11 course, the course(s) must be taken during Grade 12.
- Students must register in courses to fulfill high school diploma requirements (refer to the Alberta High School Diploma Requirements section).
- Students are responsible for checking the accuracy of their high school record of courses, marks and credits. Any questions regarding a student's high school record should be discussed with the Grade 12 guidance counsellor. All students must register with **myPass** in order to obtain diploma exam results and high school transcripts. To set up a myPass account, students should visit <https://mypass.alberta.ca>. When registering, students are advised **NOT to use their "@rvschools"**

email due to the fact that, on the student's graduation, his/her "@rvschools" email expires (thus the student will no longer have access to myPass).

- While students are ultimately responsible for ensuring that they have researched the prerequisites for any post-secondary programs they wish to attend, students may also visit the guidance office for information pertaining to careers and post-secondary programs in addition to doing their own research.

Course Prerequisites

It is the student's responsibility to be aware of the course requirements and prerequisites.

- The **minimum mark for receiving a course credit is 50%**.
- A **minimum mark of 60% is suggested in order to proceed** to the next course at the same subject level. For example, it is recommended that a student obtain at least 60% in English 10-1 in order to proceed to English 20-1. A grade lower than 60% in English 10-1 would result in a recommendation for English 20-2.
- A student NOT achieving the required 50% may repeat the course, or in some unique circumstances, with the Administration's approval, a student achieving the required 40-49% may continue to the next grade level but in the alternative program route (i.e., Social 10-1 to Social 20-2). If a student successfully completes the next higher-level course, the student would then be granted credit for the prerequisite course in those sequences (i.e., credits for Social 10-2 after successfully completing Social 20-2). In another example, if a student fails Social 10-1 and wishes to go into Social 20-1, the student must first successfully retake Social 10-1.

Alberta High School Diploma Requirements

Students must earn a minimum of 100 credits and complete the following courses:

- English Language Arts 30-1 or 30-2
- Social Studies 30-1 or 30-2
- Math 20-1, 20-2, or 20-3
- Science 20, Science 24, Biology 20, Chemistry 20, or Physics 20
- Physical Education 10
- Career and Life Management (CALM)
- 10 credits in any combination of:
 - Career and Technology Studies (CTS)
 - Fine Arts
 - Second Languages
 - Physical Education 20 and/or 30
 - Knowledge and Employability occupational courses
 - Registered Apprenticeship Program Courses
- 10 credits in any 30 level courses (in addition to their 30 level English Language Arts and 30 level Social Studies) such as:
 - 30 level Math, Science, Fine Arts, Languages, CTS courses, or Physical Education
 - 35 level locally developed courses
 - 35 level work experience credits
 - 35 level Registered Apprenticeship Program courses
 - 30-4 Knowledge and Employability courses

In grade 10, students should enroll in CALM, Phys. Ed. 10, one English Language Arts course, one Math course, one Science course, one Social Studies course plus their chosen options classes.

In grade 11, if students have not yet passed CALM or Phys. Ed. 10, they need to re-enroll in those courses plus their English, Math, Science, and Social Studies courses as well as their options.

In grade 12, students need to enroll in any remaining courses they need to graduate and to gain access to their desired post-secondary program.

Knowledge and Employability (K&E) Courses

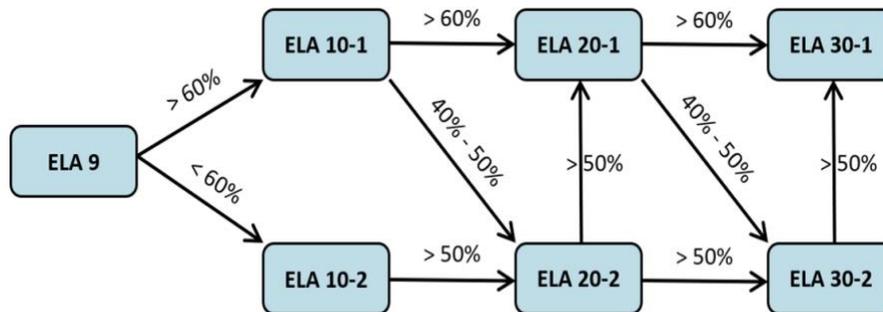
K&E courses are intended for students who demonstrate significant difficulties with reading, writing, mathematical and/or other levels of achievement resulting in them achieving below their age-appropriate grade level. If students are considering entering this program, they should consult their guidance counselor or administrator first, or if selecting courses online for the 2021/2022 school year, students registering for these courses may also have been recommended by their previous schools. Students who enroll in K&E courses still have the opportunity to upgrade to mainstream courses should they choose to do so. Students can transition in and out of K&E courses throughout high school - it is not a set program that they cannot transition out of. K&E courses will be designated on the course selection sheet with a -4 at the end of the course name (not to be confused with Science 24 which is not a K&E course). Students who opt to stay in the K&E program through the duration of their high school career will not receive an Alberta High School Diploma, but they will receive a Certificate of High School Achievement.

Certificate of High School Achievement Requirements

Students must earn a minimum of 100 credits and complete the following courses:

- English Language Arts 20-2 or 30-4
- Math 10-3 or 20-4
- Science 14 or 20-4
- Social Studies 20-1 or 20-4
- Physical Education 10
- Career and Life Management (CALM)
- A. Earn 5 credits in:
 - 30-level K&E occupational course OR
 - 30-level Career and Technology Studies OR
 - 30-level locally developed course with an occupational focus
- B. Earn 5 credits in:
 - 30-level K&E Workplace Practicum course OR
 - 30-level Work Experience course OR
 - 30-level Green Certificate course OR
 - 30-level Registered Apprenticeship Program (RAP) course
- OR, instead of completing A and B, the student may be registered for 5 credits in a 30-level Registered Apprenticeship Program.

English Language Arts



English Language Arts 10-1

Prerequisite: >60% English Language Arts 9

English Language Arts 10-1 is intended for students who have demonstrated strengths in their use of language and their understanding of print and non-print texts. Through the critical analysis and study of various literary genres, English Language Arts 10-1 integrates reading, writing, speaking, listening, representing and viewing skills. Areas of study include essay, short story, novels, poetry, modern and Shakespearean plays, visual media, and film and media texts. Students will be expected to critically analyze, evaluate and respond to texts in any of the aforementioned areas, as well as complete research, projects, major and minor assignments, reflective responses, visual responses and tests in all study areas within this course, as assigned. Students enrolled in this course are academically oriented and are expected to possess sound reading and writing abilities. In addition, students should demonstrate a genuine interest in literature and the communication process.

English Language Arts 10-2

Prerequisite: <60% English Language Arts 9

English Language Arts 10-2 is designed to concentrate on the development of language arts strategies and skills to strengthen student use of language and understanding of texts. This course will focus on functional, persuasive, contextual, and creative writing, and generally places less emphasis on academic detail than English Language Arts 10-1. Through the study of various genres including novels, short stories, drama, poetry, film and media, English Language Arts 10-2 integrates reading, writing, speaking, listening, representing, and viewing skills. Students will be expected to complete major and minor assignments, reflective and personal assignments, visual responses and more as well as complete exams in all study areas within the course.

Students enrolled in this course are expected to possess sound reading and writing ability, as well as a genuine interest in literature, other texts, and the communication process.

English Language Arts 20-1

Prerequisite: >60% English Language Arts 10-1

This is an academically oriented course designed for students who may wish to pursue post-secondary education. English Language Arts 20-1 is intended for students who have demonstrated strengths in their use of language and their critical and personal understanding of print and non-print texts. Through the study of various literary genres, including essay, short story, novel(s), poetry, modern and Shakespearean plays, visual media, and film, English Language Arts 20-1 integrates reading, writing, speaking, listening, representing, and viewing skills. Students will be expected to critically analyze, evaluate, and respond to texts in any of the aforementioned areas, as well as complete research projects, major and minor assignments, reflective responses, and exams in all study areas within this course. Students enrolled in this course are academically oriented and are expected to possess sound reading and writing ability. In addition, students should demonstrate a genuine interest in literature and the communication process.

English Language Arts 20-2

Prerequisite: >50% English Language Arts 10-2 or 40-50% in English Language Arts 10-1

English Language Arts 20-2 is designed to concentrate on the development of language arts strategies and skills to strengthen a student's use of language and understanding of texts. This course will focus on functional, persuasive, contextual, and creative writing, and generally places less emphasis on academic detail than English Language Arts 20-1. Through the study of various literary genres, English Language Arts 20-2 integrates reading, writing, speaking, listening, representing, and viewing skills. Students will be expected to evaluate and respond to texts, as well as complete research, projects, major and minor assignments, reflective and personal responses, and exams in all study areas within this course, as assigned. Students enrolled in this course are expected to possess sound reading and writing ability, as well as a genuine interest in literature and the communication process. Students should check their post-secondary programs to ensure that the "-2" stream meets the requirements for program admission.

English Language Arts 30-1

Prerequisite: >60% English Language Arts 20-1 or 50% in English Language Arts 30-2

This course prepares the student for university entrance; it is an academically geared course. It is challenging and requires a considerable time commitment from the student wishing to achieve success. The student is required to produce a writing portfolio containing a variety of writing. Students will engage in a detailed study of a variety of literary genres including, but not limited

to, short story, novel, essay, modern and Shakespearean plays, poetry, and film and media. This course is completed with a diploma exam worth 30% of a student's grade. This exam is composed of a written component and a reading comprehension component. The written exam has two parts: the "Personal Response to Text Assignment" and the "Critical/Analytical Essay". The personal response requires students to be able to access given texts for the idea conveyed, apply personal knowledge to the theme, and connect to the text and topic personally. The critical essay requires students to write a critical/analytical response on the theme/idea conveyed, using literature they have studied during the course. The comprehension component on the diploma exam requires strong reading skills and knowledge of terminology. Successful completion of English Language Arts at the Grade 12 level is a graduation requirement.

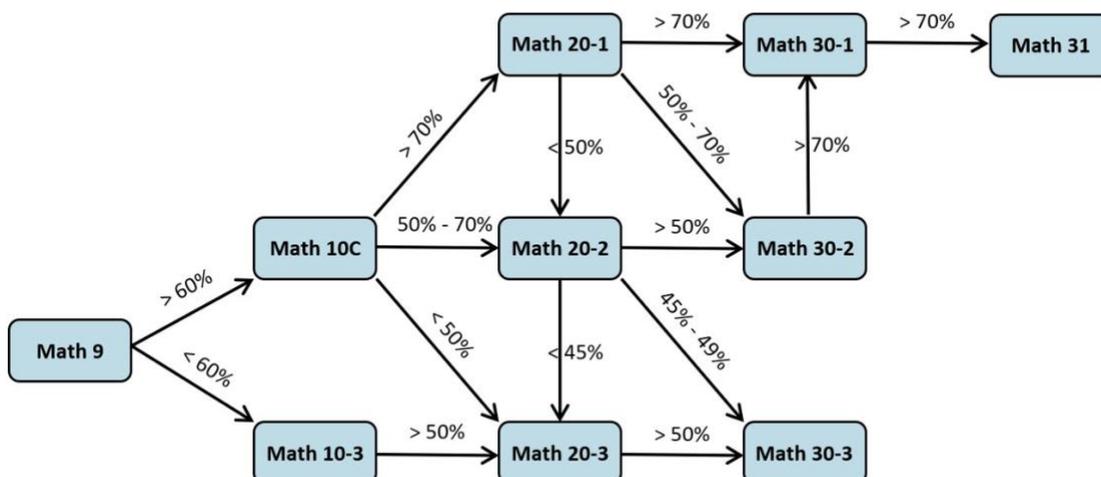
English Language Arts 30-2

Prerequisite: >50% English Language Arts 20-2 or 40-50% in English Language Arts 20-1

In the English Language Arts 30-2 class, students will engage in the study of a variety of literary genres including, but not limited to, short story, novel, essay, modern and Shakespearean plays, poetry, and film and media. There is an emphasis on personal, persuasive, contextual, and functional writing. The focus of the course is on students developing a personal awareness of literature and literature's context to their own lives, responding in personal and analytical ways. Students will develop proficiency in practical writing skills by learning to focus on how to use their communication skills for real life situations. The course culminates in a final diploma exam worth 30% of a student's grade. This exam is written in two parts based on reading and writing. The

written part is composed of three components: visual response, literary exploration, and persuasive writing. The comprehension component requires sound reading skills and knowledge of literary terminology. Successful completion of English Language Arts at the grade 12 level is a graduation requirement. Students should check their post-secondary programs to ensure that the "-2" stream meets the requirements for program admission.

Mathematics



Goals of Course Sequences

The goals of the three course sequences are to provide prerequisite attitudes, knowledge, skills and understandings for specific post-secondary programs or direct entry into the workforce. All three course sequences provide students with mathematical understandings and critical-thinking skills. It is the choice of topics through which those understandings and skills are developed that varies among course sequences. When choosing a course sequence, students should consider their interests, both current and future. Students, parents and educators are encouraged to research the admission requirements for post-secondary programs of study as they vary by institution and by year.

Design of Course Sequences (Streams)

Each course sequence (or stream) is designed to provide students with the mathematical understandings, rigor and critical-thinking skills that have been identified for specific post-secondary programs of study and for direct entry into the workforce.

- **“-1” Course Stream** – This course stream is designed to provide students with the mathematical understandings and critical thinking skills identified

for entry into post-secondary programs that require the study of Calculus. Topics include Algebra and Number, Measurement, Relations and Functions, Trigonometry, and Permutations, Combinations and Binomial Theorem.

- **“-2” Course Stream** – This course stream is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of Calculus. Topics include Geometry, Measurement, Number and Logic, Logical Reasoning, Relations and Functions, Statistics, and Probability.
- **“-3” Course Stream** – This course stream is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into the majority of Trades and for direct entry into the workforce. Topics include Algebra, Geometry, Measurement, Number, Statistics and Probability.

Competencies in Math 15

Prerequisite: <60% Math 9

This course will run in semester 1 as a skill building course for students who wish to take Math 10C in semester 2, but who feel that they need a more solid foundation and additional practice in order to succeed in Math 10C.

Math 10C

Prerequisite: >60% Math 9

Math 10C is the starting point for the “-1” and “-2” course streams. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful to whatever course stream or sequence they have chosen. The topics covered within a course sequence are meant to build upon previous knowledge, and to progress from simple to more complex conceptual understandings. This course is required to progress on to Math 20-1 and Math 20-2.

Math 20-1

Prerequisite: >70% Math 10C

Optional Fee for Workbook: \$20

The Math 20-1 program is designed for students with an interest and aptitude in mathematics, and for students who plan to enter post-secondary programs such as engineering, mathematics, sciences, some business studies or other programs that require advanced math skills. This course is a prerequisite for Math 30-1 and is required for post-secondary calculus courses. Math 20-1 includes topics such as relations and functions, sequences and series, and trigonometry.

While technology can be used in certain situations for mathematical exploration, modeling and problem solving; students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. ***Students following this program will require a graphing calculator approved by Alberta Education. If a student already has a TI84 (Texas Instrument 84), this is acceptable. If purchasing a new calculator, the TI-Nspire is recommended.*** A mark above 70% is recommended to proceed from Math 20-1 to Math 30-1.

Math 20-2

Prerequisite: 50% - 70% Math 10C

Optional Fee for Workbook: \$20

The Math 20-2 program is designed for students with an interest and aptitude in mathematics and for students who plan to enter post-secondary programs including Arts programs, Civil Engineering technology, Medical technologies, some Apprenticeship programs, or other programs that do not require advanced math skills. The course sequence is designed with a great deal of flexibility so that students can switch streams in Grade 11 or 12 if interests change. Math 20-2 includes topics such as relations and functions, equations, probability and statistics, and trigonometry.

While technology can be used in certain situations for mathematical exploration, modeling and problem solving; students are still required to learn many pencil and paper techniques and to clearly show all steps of work in solving problems. ***Students following this program will require a graphing calculator approved by Alberta Education. If a student already has a TI84 (Texas Instrument 84), this is acceptable. If purchasing a new calculator, the TI-Nspire is recommended.*** A mark above 50% is recommended to proceed from Math 20-2 to Math 30-2.

Math 30-1

Prerequisite: >70% Math 20-1

Optional Fee for Workbook: \$20

The Math 30-1 program is intended for students planning to take STEM (Science, Technology, Engineering, Math) courses in University. Students should have a keen interest and aptitude in mathematics to take this course.

Math 30-2

Prerequisite: >50% Math 20-2

Optional Fee for Workbook: \$20

The Math 30-2 program is intended for students who are post-secondary bound, but who will ***not*** be taking the STEM courses.

Math 10-3, 20-3, & 30-3

Prerequisite: see below

Optional Fee for Workbook: \$20

The Math 10-3, 20-3, 30-3 programs (the “-3” stream) are designed for students who may want to Apprentice to a trade or enter the workforce directly after High School. The “-3” stream is designed to meet the entrance requirements for most Trades programs, specifically Levels 1 to 3. The Math “-3” courses will include topics such as finance, geometry, measurement, probability and trigonometry.

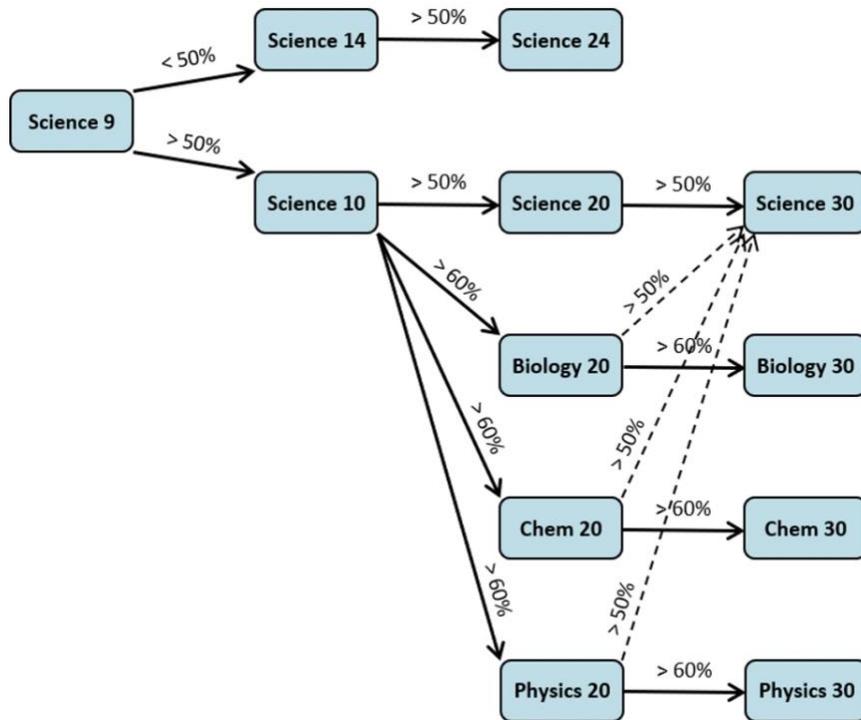
Math 31

Prerequisite: >70% in Math 30-1

Optional Fee for Workbook: \$20

The Math 31 course is designed for academic students. Math 31 is an introduction to Calculus and is a strongly recommended course for students who wish to pursue one or more mathematics courses at the post-secondary level. Math 30-1 must have been taken as a prerequisite (or co-requisite) course. It is expected that students will have or expect to have a mark above 70% in Math 30-1.

Science (Biology, Chemistry, Physics, and Science)



Biology

Biology 20

Prerequisite: >60% Science 10

The major science concepts developed in this course are energy, equilibrium, matter and systems. Change and diversity are subordinate themes that are also addressed. The major concepts allow connections to be drawn among the four units of the course. The four units of study are:

- Energy & Matter Exchange in the Biosphere
- Ecosystems & Population Change
- Photosynthesis & Cellular Respiration
- Human Systems

Biology 30

Prerequisite: >60% Biology 20

The major science concepts developed in this course are change, diversity, equilibrium and systems. Matter and energy are subordinate themes that are also addressed. The major concepts allow connections to be drawn among the four units of this course and among all eight units in the Biology 20/30 program combined. Each unit contains a written component. The topic for each writing assignment relates to a specific science, technology and society field. Students need to have a basic understanding of essay writing. The four units of study are:

- Nervous & Endocrine Systems
- Reproductions & Development
- Cell Division, Genetics & Molecular Biology
- Population & Community Dynamics

Chemistry

Chemistry 20

Prerequisite: >60% in Science 10

Optional Fee for Workbook: \$20

This is a prerequisite course for Chemistry 30. Matter and chemical change are the common themes in Chemistry 20 and are stressed through experimentation and linking empirical and theoretical knowledge. The four units of study are:

- The Diversity of Matter and Chemical Bonding
- Forms of Matter: Gases
- Matters as Solutions, Acids and Bases
- Quantitative Relationships in Chemical Changes

Chemistry 30

Prerequisite: >60% in Chemistry 20

This course is accepted as a grade 12 academic science for university entrance. Change, energy and systems are the central themes in Chemistry 30 and build upon the themes developed in both Science 10 and Chemistry 20. The subordinate themes of equilibrium and matter are also addressed in the study of opposing reactions. The four units of study are:

- Thermochemical Changes (Energetics)
- Electrochemical Changes (Redox)

-
- Chemical Changes of Organic Compounds
 - Chemical Equilibrium Focusing on Acid-Base Systems

Physics

Physics 20

Prerequisite: >60% in Science 10

Physics 20 expands on the basic concepts introduced in Science 10. Good math skills are an asset to this course. The four units of study are:

- Kinematics
- Dynamics
- Circular Motion, Work & Energy
- Oscillatory Motion & Mechanical Waves

Physics 30

Prerequisite: >60% in Physics 20

Physics 30 follows the historical developments that led to modern quantum theory. It shows that physics is a dynamic and ever-changing field that has allowed the discovery and implementation of present-day technology. Good math skills are a definite asset to this course. The four units of study are:

- Momentum & Impulses
- Forces & Fields
- Electromagnetic Radiation
- Atomic Physics

Science

Science 10

Prerequisite: >50% in Science 9

Optional Fee for Workbook: \$20

This is a prerequisite course for Biology 20, Chemistry 20, Physics 20 and Science 20. This academic course includes work in the areas of laboratory exercises, projects and research. This

science program is intended to prepare students to be inquisitive, assess scientific information, and make judicious decisions about the use of science and technology. The four basic units covered are:

- Energy & Matter in Chemical Change
- Energy Flow in Technological Systems
- Cycling of Matter in Living Systems
- Energy Flow in Global Systems

Science 14

Prerequisite: <50% in Science 9

The course objectives of Science 14 are:

1. To develop greater degrees of scientific literacy in students in order to better enable them to make informed decisions and opinions relating to scientific issues.
2. To improve upon a student's abilities to solve problems and think critically and analytically.
3. To encourage an ongoing interest and curiosity about the scientific and natural worlds.

The four units of study are:

- Investigating Properties of Matter
- Energy Transfer Technologies
- From Life to Lifestyle
- Matter and Energy in the Biosphere

Science 20

Prerequisite: >50% in Science 10

This is a prerequisite course for Science 30. This academic course focuses on change as the common theme and expands upon the areas explored in Science 10. This science program is intended to prepare students who want to pursue a post-secondary education that does NOT specialize in the sciences. It emphasizes the key concepts of all areas of science. The four units of study are:

- Chemical Changes
- Changes in Motion
- The Changing Earth
- Changes in Living Systems

Science 24

Prerequisite: >50% in Science 14

The course objectives of Science 14 are:

1. To develop greater degrees of scientific literacy in students in order to better enable them to make informed decisions and opinions relating to scientific issues.
2. To improve upon a student's abilities to solve problems, think critically and analytically, and to reason effectively.
3. To encourage an ongoing interest and curiosity about the scientific and natural worlds.

The four units of study are:

- Matter and Chemical Change
- Energy Transformations
- Disease Defense and Human Health
- Safety and Technology in Transportation

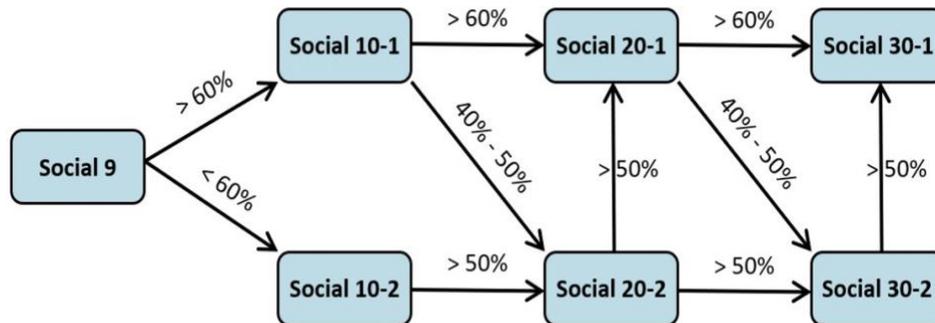
Science 30

Prerequisite: >50% in Biology 20, Chemistry 20, Physics 20, or Science 20

This course is accepted as a Grade 12 academic science for university entrance. This science program is intended to prepare students who intend to pursue a post-secondary education that does NOT specialize in the sciences. It emphasizes the key concepts of all areas of science. The four units of study are:

- Living Systems Respond to Their Environment
- Chemistry & the Environment
- Electromagnetic Energy
- Energy & the Environment

Social Studies



Social Studies provides opportunities for students to develop the attitudes, skills and knowledge that will enable them to become engaged, active, informed and responsible citizens. Recognition and respect for individual and collective identity is essential in a pluralistic and democratic society. Social studies help students develop their sense of self and community, encouraging them to affirm a place as citizens in an inclusive, democratic society.

Social Studies 10-1

Prerequisite: >60% in Social Studies 9

Students will explore multiple perspectives on the origin of globalization and the local, national and international impacts of globalization on lands, cultures, economies, human rights and quality of life. Students will examine the relationships among globalization, citizenship and identity to enhance skills for citizenship.

Social Studies 10-2

Prerequisite: <60% in Social Studies 9

The theme of Social Studies 10-2 is “Living in a Globalizing World”. Globalization refers to the increasing connections between people, communities and nations in the world – and the various social, political, and economic effects of those connections. The course explores whether globalization should shape identity, whether (and how) people in Canada should respond to the legacies of historical globalization, whether globalization contributes to sustainable prosperity, and whether (and how) individual citizens should respond to the forces and consequences of globalization.

Social Studies 20-1

Prerequisite: >60% in Social Studies 10-1

Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influence of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada. While nationalism has historically examined the relationship of the citizen to the state, contemporary understandings of nationalism include evolving individual, collective, national and state realities. Exploring the complexities of nationalism will contribute to an understanding and appreciation of the interrelationships among nations, nationalism, internationalism, and citizenship and identity.

Social Studies 20-2

Prerequisite: >50% in Social Studies 10-2

Students will examine historical and contemporary understandings of nationalism in Canada and the world. They will explore the origins of nationalism as well as the impacts of nationalism on individuals and communities in Canada and other locations. Examples of nationalism, ultranationalism, supranationalism and internationalism will be examined in a historical study from multiple perspectives. Students will develop personal and civic responses to emergent issues related to nationalism. The goal is to explore the positive and negative aspects of nationalism on individual and collective identities, both in a domestic capacity and in the international community.

Social Studies 30-1

Prerequisite: >60% in Social Studies 20-1

Students will explore the origins and complexities of ideologies and examine multiple perspectives regarding the principles of classical and modern liberalism. An analysis of various political and economic systems will allow students to assess the viability of the principles of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues. The above themes will be explored through an historical exploration of key figures and events in the evolution of social, political and economic liberalism – including its origins, evolution and the various responses to it. Course content includes events from the 1700's through to modern day contemporary global events.

Social Studies 30-2

Prerequisite: >50% in Social Studies 20-2

Students will explore the origins and complexities of ideology. This will be done through a historical study of the principles of classical and modern liberalism. An analysis of political and economic systems will allow students to explore the positives and negatives of liberalism, and how liberalism has evolved throughout modern history. The principles of liberalism have played a significant role in the development of modern democratic and free market societies. Understanding the evolution of liberal thought and competing ideologies is important in the development of active, informed and responsible citizens.

Additional Required Courses

Physical Education 10

Prerequisite: none

Online physical education requires students to regularly attend activities they have organized to receive the course credit. The teacher may at times ask students to attend a class in person. This, however, will not be mandatory.

Students will be asked to track their activities which are exercise based. The hours of activity will count towards their credit. This can be done at home, by joining a gym, outside, community sports and more. Students will also be required to read and complete evaluations or assignments on various topics from health to fitness to game play.

The Phys. Ed. 10 program is an activity-based course. The aim of the program is to enable individuals to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle. Online PE is set up differently. Students are to attend activities in their community and parents will sign off on their participation. There may be times where the teacher will invite students to participate in activities off campus. These opportunities are optional, but we hope students will take this opportunity to connect.

CALM 20

Prerequisite: none

CALM is required for graduation with an Alberta High School Diploma. The aim of the CALM program is articulated through three general outcomes.

- **General Outcome 1: Personal Choices** – Students will apply an understanding of the emotional/psychological, intellectual, social, spiritual and physical dimensions of health and the dynamic interplay of these factors in managing personal well-being.
- **General Outcome 2: Resource Choices** – Students will make responsible decisions in the use of finances and other resources that reflect personal values and goals and demonstrate commitment to self and others.
- **General Outcome 3: Career and Life Choices** – Students will develop and apply processes for managing personal, lifelong career development.

Option (or Elective) Courses

Courses are listed alphabetically.

Abnormal Psychology

Prerequisite: General Psychology 20

This fascinating psychology course is designed to help students develop a curiosity about abnormal human behavior. Students will gain an awareness of biological and other influences on anxiety, depression, eating disorders, etc., as well as an introductory understanding of the methods of psychological treatments. This course will allow a student to explore many different types of abnormal psychological behavior along with the treatments associated with those behaviors.

Animation 10/20/30

Prerequisites

10 Level | None

20 Level | Animation 10

30 Level | Animation 20

Are you inherently creative? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! Animation 10 creates movement in a two-dimensional artistic space. In this course, you will learn the necessary skills to do just that. Animation 20 creates movement in a 3D artistic space and Animation 30 uses both 2D and 3D creative spaces. Introduction to Digital Animation will give you the tools to conceptualize and bring your animation dreams to life! The course will cover the theory of animation, script and storyboard development, character and scene design, motion and movement, cells and computer generation of animated sequences. Using a variety of software and design programs, you'll have the power to transform your creative notions into reality!

Art 10

Prerequisite: none

Fee: Students will be required to purchase their own art supplies for this course.

The Art 10 program focuses on the development of artistic and technical skills through sketchbook and studio projects. This studio course involves a range of two and three-dimensional media with an emphasis on exploring a wide variety of artistic approaches. The program is designed to touch four levels of artistic involvement: critical viewing, art theory, media handling, and techniques and artistic expression. In addition, students will organize and present their work in a portfolio and presentation format. Discover the magic of art! Students will be required to purchase their own supplies.

Art 20

Prerequisite: Art 10

Fee: Students will be required to purchase their own art supplies for this course.

The Art 20 program focuses on expanding and enhancing artistic skills through sketchbook and studio projects. This studio course is designed to allow the student personal exploration of subject matter while enhancing and developing artistic skills. It is expected that the student will continue his/her exploration in critical viewing, art theory, cultural/world perspectives, media handling and techniques and artistic expression. Students will be required to purchase their own supplies.

Art 30

Prerequisite: Art 20

Fee: Students will be required to purchase their own art supplies for this course.

The Art 30 program focuses on pursuing a personal direction in developing artistic skills through sketchbook and studio projects. This studio course is designed to facilitate the student's ability to self-direct his or her artistic study while improving technical competency. Through student/teacher-designed projects, it is expected that the student will continue to cultivate his or her understanding in critical viewing, art theory, cultural/world perspectives and artistic expression. Students will be required to purchase their own supplies.

Business Studies– Innovation and Design 10/20/30

Prerequisites

10 Level | None

20 Level | None

30 Level | None

This course introduces students to the world of business including Financial Literacy, Entrepreneurship, Accounting, Economics, Ethics, Human Resources, Management, Marketing, and How to create a business Venture.

After taking this course, students will know what it means to be an entrepreneur; specifically the types of skills, knowledge, and attitudes that individuals need to possess in order to be an entrepreneur. Students will also understand that an entrepreneurial spirit is important in their everyday life.

Coding 10/20/30

Prerequisite: Coding 10 → Coding 20 → Coding 30

Step into the world of programming, an essential skill for today's world. In this course, you will learn introductory computer programming skills. At the end of this course, you will be able to describe computer program terminology and create applications by using the Python programming language.

Communication Technology - 10/20/30

Prerequisites:

10 Level | None

20 Level | Com Tech10 OR Photography 10 OR Audio/Video 10

30 Level | Com Tech20 OR Photography 20 OR Audio/Video 20

"Regardless of the changes in technology, the market for well-crafted messages will always have an audience" - **Steve Burnett**

Communication Technology is a course about creating visual ways to communicate. Students will learn aspects of Photography, Video Production, Design, and Web Page Creation in order to communicate with an audience. The course focuses on using the Adobe suite to design, create, manipulate and enhance your digital communication.

Creative Writing 15/25/35

Prerequisite: Creative Writing 15 → Creative Writing 25 → Creative Writing 35

Creative Writing 15/25/35 is a blended class where students will follow their interests and passions, writing in a variety of specific creative genres. Students will build and manage their own portfolios and participate in an actual publishing process. We encourage students to experiment with new ideas, concepts and processes in their writing. This course is a load of fun, and a great place to push one's boundaries!

Film and Media Arts 15/25/35

Prerequisites:

15 Level | None

25 Level | level 15 OR demonstrate disciplinary knowledge and creative capacity

35 Level | level 25 OR demonstrate disciplinary knowledge and creative capacity

Film and Media Arts are highly visible in contemporary culture. The purpose of Film and Media Art is to provide learning experiences where students investigate, explore and create film and media art from an artistic perspective. Students will engage in deepening their knowledge of film through the authentic exploration of the medium. Film and Media Art creates the environment through which students engage with and explore contemporary and historical art forms, and create art that integrates narrative, technical and artistic elements. Through authentic cinematic learning experiences, students will expand their responsibility to be positive contributors to the quality and richness of Alberta's culture, communities, and society.

Foods 10/20/30

Prerequisite:

Foods 10 – none

Foods 20 & 30 – FOD1010 (the safety module in Foods 10)

Foods 10 is the introduction to Foods. Each module successfully completed is worth one (1) credit. The three modules that will be offered are Food Basics, Contemporary Baking and Meal Planning. This course is 40% theory and 60% practical.

Foods 20 is a continuation from Foods 10. The course is set up in module form and for each module successfully completed, the student will receive one (1) credit (five modules will be offered). This course is 40% theory and 60% practical.

Foods 30 is a continuation from Foods 20. The course is set up in module form and for each module successfully completed, the student will receive one (1) credit (five modules will be offered). This course is 40% theory and 60% practical.

Forensic Science 25/35

Prerequisite:

Forensic Science 25 – successful completion of Science 10

Forensic Science 35 – completion of Forensic Science 35

Forensic science is the application of scientific principles, methods, and technologies for the purpose of solving debates including legal proceedings. Through the study of forensic science, students are given the opportunity to explore how scientific concepts from a variety of disciplines (biology, chemistry, and physics) apply specifically to this unique field. This course will promote the importance of scientific literacy and problem solving techniques.

French 3Y 10/20/30

Prerequisite: French 10 → French 20 → French 30

This is a three-year French program for students with no previous exposure to French (French 9Y is for students who started studying French in grade 4). It is designed to give students instruction in understanding, speaking, reading and writing the French language. It also introduces the students to the contemporary values and cultural aspects of the various groups of French-speaking people.

French 10 focuses on the development of communicative competence in French and therefore a large emphasis is placed on the cultivation of listening and speaking skills. Students will learn to express themselves in present, past and future tenses and will be able to talk about family professions and clothes. Students will complete various cultural inquiry projects throughout the semester. In-class storytelling and authentic cultural field trips are used as important tools in language acquisition.

French 20 continues to develop communicative competence in French. Students will engage in discussions about novels, songs and films to further their language comprehension and production. They will learn to express themselves in the past, using both the passé composé and l'imparfait. Other key grammatical concepts woven into inquiry projects are commands as well as the comparative and superlative. Authentic cultural experiences and exploration of real-world scenarios for language use are the basis for this course.

In French 30, all four language skills (listening, speaking, reading and writing) receive equal emphasis. Novel and film studies, as well as authentic cultural experiences, will continue to be used to explore cultural and linguistic concepts. Language concepts explored will be the conditional, the subjunctive, and direct and indirect object pronouns. Students are required to become more independent learners and must expect to hear and use French in class on an increasing basis. 30-level students will focus on language as an important skill for increased employability and servant leadership opportunities as they move on from High School.

General Psychology 20

Prerequisite: none

This introductory psychology course is designed to help students develop a curiosity about human behavior, both normal and abnormal. Students will gain an introductory understanding of the methods of psychological study, including famous experiments. Students will also gain an awareness of biological influences on behavior, including the brain, consciousness, sleep and dreams. This course will help students develop an understanding of the concept of abnormal psychological behavior as well as the treatments for such.

Legal Studies 10/20/30

Prerequisites:

10 Level | None

20 Level | None

30 Level | None

Students in Legal Studies can expect to learn about specific laws, legal concepts, and both historical and contemporary legal issues pertaining to specific areas of law, including:

Public Law	Environmental Law	Negligence & Tort Law
Private Law	Aboriginal Law	Small Business Law
Relationship Law	Law & The Traveller	Controversy & Change
Family Law	Property Law	Landmark Decisions
Employment Law	Dispute Resolution	Criminal Law

In addition to the General and Specific Outcomes in each particular module, students in Legal Studies will:

- Explore to understand the nature and function of law and specific legal concepts in society
- Develop and execute skills and processes for conducting legal research and inquiry
- Communicate legal knowledge to demonstrate their understanding of legal concepts, legal curriculum, and legal events, issues, or ideas

Personal Wellness

Prerequisite: None

This course will guide students to better understand various facets of mental health, and it also provides a look at what practices can best support one's mental health.

Photography - 10/20/30

Prerequisites

10 Level | None

20 Level | Com Tech10 OR Photography 10

30 Level | Com Tech20 OR Photography 20

“To me, photography is an art of observation. It's about finding something interesting in an ordinary place... I've found it has little to do with the things you see and everything to do with the way you see them.”— **Elliott Erwitt**

Get ready to create art from interesting things in ordinary places. Students will use either a cell phone camera or a DSLR to capture a variety of photos, learn to edit them with Photoshop, and evaluate their photos according to the elements of composition and exposure. Topics include Outdoor photography, Portrait photography, Black and White photography, Lighting, Photojournalism, and The Digital Darkroom. The school has some DSLR cameras that may be signed out.

Physical Education 20/30

Prerequisite: Physical Education 10 → Physical Education 20 → Physical Education 30

Online physical education requires students to regularly attend activities they have organized to receive the course credit. The teacher may at times ask students to attend a class in person. This, however, will not be mandatory.

Sociology 20

Prerequisite: none

This introductory sociology course is designed to help students develop a better understanding about group behavior (including cults). Students will gain an awareness of cultural influences on behavior including social norms, traditions and unwritten rules. This course is designed to help students develop an understanding of the concepts of social pressure and how powerful it can be (i.e., the Genovese Effect, etc.). Students will be given the opportunity to explore some of the most influential sociological studies (such as Stanford Prison, Milgram Shock, etc.).

Sports Medicine - 10/20

Prerequisite: Sports Med. 10 → Sports Med. 20

Sports Medicine 10 is a module-based course that will appeal to students who are interested in careers in athletic therapy, physiotherapy, chiropractic, massage, medicine, nursing, paramedic or physical education. Course material covers topics such as human anatomy, with a focus on the skeletal and muscular systems, and the treatment of minor and major injuries.

Sports Medicine 20 is a module-based course that is a continuation of the Sports Medicine 10 course. In this course, there is a major focus on common sporting with one unit focusing solely on the knee. Students will complete 10 training hours with a team. The goal of this program is to have student's progress from the theoretical knowledge gained in the Sports Medicine 10 course, to more practical application of skills throughout Sports Medicine 20. The emphasis of this section of the course will be on pain and injury management.

Western World History 30

Prerequisite: None

Western World History will explore more than the three thousand years of history, starting with the birth of Ancient Greece and ending with the creation of the Internet. We will watch the rise and fall of great civilizations, witness epic battles, experience plagues and political upheavals, and see new inventions change the course of history. Along with learning more about our shared history, this class will also explore how history itself is written.

World Geography 30

Prerequisite: None

This course will introduce you to many concepts in physical and cultural geography. The term geography is very broad in meaning. Most people think of geography as places on a map and statistics about people, resources and industry. Certainly, geography does include these things, but it includes much more as well. Physical geography is concerned with the processes that affect the earth. This includes the formation of landforms, weather and climate, and soils and vegetation. Cultural geography is concerned with human aspects of geography. Land use, settlement, industry, resources, and environmental effects are all part of this branch of geography. Cultural geography is also concerned with the ideas of place and time or the use that is made of any particular place at any given time. Learn about all of this and more in World History 30!

Yoga- 10/20/30

In Yoga students experience the health benefits of the discipline of yoga and develop skills that enable them to develop well-being, balance multiple aspects of their lives, and manage priorities. Yoga is a holistic pursuit of wellness where students are encouraged to challenge their limits, both physically and psychologically. By experiencing these challenges, while learning in a supportive group setting, students will gain a better sense of identity, both as individuals and as active agents of a broader world.

Work Experience 15/25/35 (connect with Guidance Counsellor)

Prerequisite: HCS3000 and having a job

These courses are offered outside of the timetable and off-campus at the student's place of employment. They can register in Work Experience 15, 25 or 35 for a minimum of 3 credits up to a maximum of 10 credits. Each work experience course is time based, with one (1) credit being awarded for every 25 hours worked. Students can earn up to 30 credits, with 15 credits being used towards their graduation requirements. If you are interested in work experience, please connect with the Guidance Counsellor, Christiana Van Ysselsteyn.

- The purpose of work experience is to familiarize students with the world of work, giving them the opportunity to gain skills for success in the workplace.
- Students sign a contract with their employer covering the full semester.
- This course includes an online blog component which allows students to participate in discussions about workstations, work habits, and job readiness. Participation in blogging activities is mandatory and graded.
- In order to begin work experience, students must first have successfully completed HCS3000 (Workplace Safety Systems), and online safety course worth 1 credit.
- Supervision and evaluation are the responsibility of both the off-campus education coordinator (a certified teacher) and the workstation supervisor (the employer).
- Students can earn credits toward their requirements for graduation. For each 25 hours worked, one (1) credit is granted, provided all assignments and evaluations are completed and above standard.
- An Individualized Training Plan is developed to outline the learning outcomes and progression of learning for the duration of the placement.

WeConnect – Asynchronous courses (courses that you work through on your own online without a cohort)

WeConnect courses are used if the student is not able to fit a course into their schedule. Following is a list of the courses typically offered through WeConnect:

- Abnormal Psychology 30 (3 credits)
- Entrepreneurship Pathway (5 credits)
- Experimental Psychology 30 (3 credits)
- Forensic Science 25 (3 credits)
- Forensic Science 35 (3 credits)
- General Psychology 20 (3 credits)
- General Sociology 20 (3 credits)
- Legal Studies (5 credits)
- Personal Psychology 20 (3 credits)
- Western World History (3 credits)
- World Geography (3 credits)
- AGR3000 – Agriculture Safety (1 credit) (prerequisite for Green Certificate)
- HCS3000 – Workplace Safety Systems (1 credit) (prerequisite for Work Experience)
- HCS3010 – Workplace Safety Practices (1 credit)