W. R. Myers Course and Planning Guide

2023-2024

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Understanding High School Programming

Completing High School

Completing high school is the first step to getting the skills and background needed to help secure a positive future in post-secondary education or in the workforce.

For most jobs in Alberta, a minimum of a high school diploma or a high school equivalency diploma is required. To be accepted into many post-secondary programs, specific high school or high school equivalent courses are required.

In Alberta, there are several ways the province recognizes high school completion:

1. A High School Diploma (see page 5 for the requirements)
2. A Certificate of High School Achievement (see page 5 for the requirements)

Most students complete a High School Diploma in three years; others do so in four years. At WR Myers, counsellors, teachers, and school administrators support you in choosing courses which fit your learning style, interests, goals and career aspirations.

Course Numbers and Sequences

Courses are arranged in sequences and are assigned course numbers that indicate both the grade level and the type of challenges in the course.

1. 1st year or Grade 10 courses start with the number 1 (for example, 10, 15, 1000) or are called Introductory in Career and Technology (CTS) courses
2. 2nd year or Grade 11 courses start with the number 2 (for example, 20, 25, 2000) or are called Intermediate in CTS courses
3. 3rd year or Grade 12 courses start with the number 3 (for example, 30, 35, 3000) or are called Advanced in CTS courses

Depending on your goals, sometimes the courses you take do not correspond to your grade level.

1. If you are a Grade 10 student, you might register in a 20-level course in the second semester if you have successfully completed the 10-level course in the first semester
2. If you are a Grade 11 student, you might register in a 10-level course to explore another area of interest, or a 30-level course in the second semester to better balance diploma courses in your Grade 12 year.

If there is more than one course sequence in a subject, the last digit of the course number indicates the sequence. In high school, you have choices of academic courses (such as, English 10-1, English 10-2, or English 10-4).

1. Course sequences ending in -1 emphasize abstract and ambiguous challenges. *Typically*, these courses are required for admission into University Post-Secondary programs.
2. Course sequences ending in -2, -3, and -4 do include abstract challenges, but they emphasize increasingly concrete and practical challenges. -2 and -3 courses are *typically* required for College Post-Secondary Programs, such as trades. -4 sequences are marked for students on a Certificate of Achievement pathway.

You do NOT need to select all your courses from the same sequence.

1. For example, depending on your strengths, needs, interests and goals, you could choose English 10-1 and Social 10-2

There is flexibility to transfer from one sequence to another. The process begins by having a conversation with your teacher to review your work and the course outcomes, and may require additional conversations with career advisors and administration. For more detail | See Appendix I: Course Sequences and Transfer Points

Credits

Courses are assigned certain credit values by Alberta Education. At W.R. Myers High School, most courses are offered on the semester system which means that a 5-credit subject will occupy 2 of the 8 class blocks in a given semester. Some 5- credit courses are offered for a full year which means that 1 class block is occupied in each semester. 3-credit courses will occupy 1 class block/semester. To earn the credits attached to all high school courses, a student should achieve at least 50% in each course.

- Credits show you have met the outcomes in a course.
- 100 credits, minimum, are needed for a High School Diploma
- 80 credits, minimum, are needed for a High School Certificate of Achievement
- Most students earn more than the minimum required to take advantage of the choices available and to meet post-secondary education or career requirements
- Credits can only be earned once for any course. For example:
    - If you earn 45% in Science 10, you do NOT earn 5 credits. If you repeat Science 10 and earn 55%, you earn the higher mark and 5 credits.
    - If you earn 50% in Science 20, you earn 5 credits. If you repeat Science 20 and earn 70%, you keep the 5 credits and earn the higher mark. You do NOT earn additional credits.

Career and Technology (CTS) courses are designed differently from those stated above as they are taught in courses.

- Students receive 1 credit for each completed course. Failure to complete a course will result in no credits being awarded. Therefore, students' must manage their time efficiently to ensure they are earning at least 3 credits in a single class block.

Prerequisites and Co-requisites

When you earn a grade of 50% or more in a given course, you gain credits for the course and the **prerequisite** to move to the next course in a sequence (for example, English 10-1 to English 20-1).

If you do not meet the minimum final grade of 50%, you may choose to repeat the course. If your grade is between 40% and 49%, you may continue on to the higher level in an alternative course sequence with a higher last digit number.

1. For example, if you earn 45% in English 10-1, you may continue to English 20-2. When you successfully complete English 20-2, the retroactive credits from English 10-2, the prerequisite course, will be added, OR
2. You may develop another credit recovery plan: see your school principal or assistant principal to learn more.

Important l If you have difficulty in a course, talk to your teacher right away. Use feedback and seek help before retroactive credits or credit recovery is necessary.

Some courses have a **co-requisite**. This means you take a required course at the same time as the course with a co-requisite. For example:

1. Math 31 requires a prerequisite or co-requisite of Math 30-1.

Provincial Diploma Examinations

Examinations are held throughout the province in:

- English 30-1 & 30-2
- Social Studies 30-1 & 30-2
- Mathematics 30-1 & 30-2
- Biology 30 & Chemistry 30 & Physics 30 & Science 30
- French Language Arts 30.

In each of these courses, 30% of the final mark will come from the student's score on the Diploma Examination and 70% from the student's achieved school mark. Students who are dissatisfied with their Diploma Examination Mark may write the test again in accordance with Alberta Education policies. Students will be given their final school mark before writing their Diploma Examination.

Diploma and High School Certificate of Achievement Requirements

Alberta High School Diploma Requirements

The Province of Alberta records the courses that students complete, determines the student's eligibility for The Alberta High School Diploma and awards this certification directly to students. To attain an Alberta High School Diploma, a student must:

- Earn a minimum of 100 credits.
- Complete and meet the standards of the following courses:
  - English 30-1 or English 30-2 or Français 30 or Français 33
  - Social Studies 30-1 or Social Studies 30-2
  - Mathematics 20-1, Mathematics 20-2 or Mathematics 20-3
  - Science 20 or Science 24 or Biology 20 or Chemistry 20 or Physics 20
  - Physical Education 10 (3 credits)
  - Career and Life Management 20 (3 credits)
  - Earn a minimum of 10 credits, in any combination, from:
    - Career and Technology Studies (CTS)
    - Fine Arts
    - Second Languages
    - Physical Education 20 and/or 30
  - Earn a minimum of 20 credits in 30-Level Courses or 3000 Level CTS courses

Alberta High School Certificate of Achievement Requirements

To obtain an Alberta High School of Achievement, a student must:

- Earn a minimum of 80 credits
- Complete and meet the standards of the following courses:

- English 20-2 or 30-4
- Mathematics 10-3 or 20-4
- Science 14 or 20-4
- Social Studies 10-2 or 20-4
- Physical Education 10 (3 credits)
- Career and Life Management 20 (3 credits)
- Earn a minimum 5 credits in,
  - A 30-level Knowledge and Employability occupational course, or
  - An advanced level (3000 series) in CTS courses, or
  - 30-level locally developed course with an occupational focus
- AND 5 credits in
  - 30-level Knowledge and Employability Workplace Practicum, or
  - 30-level Work Experience course, or
  - 30-level Green Experience course, or
  - Special Projects 30
- OR 5 credits in
  - 30-level Registered Apprenticeship Program (RAP) course

Course Catalogue

Core Academic Courses

Science

In high school science courses, you focus on interconnected ideas and principles, such as change, diversity and energy. You develop scientific knowledge through collecting, analyzing and interpreting experimental evidence. Additionally, you make connections among science, technology and society. You continue to develop your sense of wonder about the natural world.

Diploma Path | 10, 20, 30

Course Sequences

Science 10 (5 credits)

1. introduces biology, chemistry, physics and global energy systems
2. allows you to choose from Biology, Chemistry, Physics and/or Science at the 20- level, depending on your interests, abilities and goals

Science 20, 30 (5 credits)

1. extend the application of biological, chemical, physical and earth sciences in Science 20 and apply them to current world scenarios
2. analyze interactions in biological, chemical, physical and global energy systems in Science 30
3. enhance scientific literacy and prepare you for post-secondary programs
4. Important | Biology 20, Chemistry 20, Physics 20 or Science 20 can be used as a prerequisite to Science 30

Biology 20, 30 (5 credits)

1. engage in examining interactions of living systems with each other and their environment
2. Biology 20 emphasizes energy and matter exchange
3. Biology 30 focuses on adaptation and change in biological systems
4. enhance scientific literacy and prepare you for post-secondary programs

Chemistry 20, 30 (5 credits)

1. engage with the study of matter and its changes in the natural and industrial worlds
2. enhance scientific literacy and prepare you for post-secondary programs

Physics 20, 30 (5 credits)

1. engage in the exploration and analysis of the interactions between matter and energy
2. understand the physics behind natural events and technology
3. enhance scientific literacy and prepare you for post-secondary programs*

Diploma Path | at the 24 level Certificate of High School Achievement Path | at the 20-4 level

Science 14, 24 (5 credits)

1. apply scientific knowledge and skills to everyday experiences
2. are general sciences that meet the credit requirement for a high school diploma

Certificate of High School Achievement Path | -4 Science Course Sequence

Science 10-4, 20-4 (5 credits)

1. apply scientific knowledge and skills to everyday life and the workforce
2. **Important** | written consent and a learning plan are required to register in each -4 Knowledge and Employability (K&E) course

Math

The main goals of mathematics education are to prepare you to:

- solve problems
- communicate and reason mathematically
- make connections between mathematics and its applications
- become mathematically literate
- appreciate and value mathematics
- make informed decisions as contributors to society

Diploma Path | -1 and -2 Course Sequences

Math 10C (5 credits)

1. 1 | involves topics such as measurement, powers, irrational numbers, functions and relations, and trigonometry
2. 2 | focuses on algebraic skills and reasoning
3. 3 | provides several choices after you successfully complete it and move to 20-level courses

Math 20-1, 30-1 (5 credits)

1. investigate the relationships between relations and functions, and engage in trigonometric topics
2. develop abstract reasoning and visualization in a problem-solving environment
3. prepare you for a entrance requirements for post-secondary institutions vary; be sure to check their websites

Math 20-2, 30-2 (5 credits)

1. focus on investigation into logical reasoning, relations and functions, and trigonometry
2. develop problem-solving, reasoning and communication in many ways, including a self-selected research project on a topic of interest
3. prepare for a post-secondary program that does not require calculus (entrance requirements for post-secondary institutions vary; be sure to check their websites)

Post-secondary Path | Requiring Calculus

Math 31 (5 credits)

1. prerequisite or co-requisite: Math 30-1
2. introduces skills and topics in calculus
3. investigates a variety of topics; focuses on the limit of a function and looks at the relationship between differentiation and integration

Diploma Path | -3 at the 20-level or higher Certificate of High School Achievement Path | -3 at the 10-level

Math 10-3, 20-3, 30-3 (5 credits)

1. engage in measurement skills, geometry, personal and business finances, and statistics and probability
2. emphasize practical math found in day-to-day activities
3. prepare you for entry into some apprenticeship programs, trades or the workforce after high school completion

Certificate of High School Achievement Path | -4 Course Sequence

Math 10-4, 20-4 (5 credits)

1. engage in measurement skills, number concepts and probability as they would be used in the workplace
2. develop problem-solving and reasoning skills in a team environment
3. prepare you for the workplace or further training that may not involve postsecondary education
4. **Important** | written consent and a learning plan are required to register in each -4 Knowledge and Employability (K&E) course

Social Studies

Social Studies courses explore relationships among individuals in various societies and between societies. You examine cultural, economic, ethical, legal, and political issues that communities face. These courses focus on understanding: who am I, what kind of society do I want, and how do I and others shape our world?

Diploma Path | -1 and -2 Course Sequences

Social 10-1, 20-1, 30-1 (5 credits)

1. examine historical and contemporary aspects and relationships among citizenship, identity and:
    a. globalization in 10-1
    b. nationalism in 20-1
    c. ideologies, such as liberalism, in 30-1 and examine relationships between citizenship and ideologies

Social 10-2, 20-2, 30-2 (5 credits)

1. explore historical and contemporary aspects and relationships among citizenship, identity and:
    a. globalization in 10-2
    b. nationalism in 20-2
    c. ideologies, such as liberalism, in 30-2

Certificate of High School Achievement Path | -4 Course Sequence

Social 10-4, 20-4 (5 credits)

1. connect your learning to everyday experiences as you respond to key questions:
    a. “Should we embrace globalization?” in 10-4
    b. “Should we embrace nationalism?” in 20-4
2. emphasize the importance of diversity and respect for differences to promote a sense of belonging and acceptance

English Language Arts

High school English Language Arts (ELA) is more than reading and writing. ELA involves:

- communicating effectively in various places for many different audiences and reasons
- selecting appropriate forms, structures, and technology for a variety of contexts
- understanding, appreciating and creating a broad range of texts (including multimedia, visual, oral, and print)

Diploma Path | -1 and -2 Course Sequences

ELA 10-1, 20-1, 30-1 (5 credits)

1. engage with Canadian and international print and multi-media texts
2. emphasize literary analysis to develop critical thinking skills
3. develop strong, comprehensive communication skills for university and many post-secondary programs

ELA 10-2, 20-2, 30-2 (5 credits)

1. engage with a wide range of texts and some literary analysis
2. develop communication skills through practical, creative and persuasive writing and representing
3. prepare for some post-secondary education programs (entrance requirements for post-secondary institutions vary; be sure to check their websites)
4. **Important** | English 20-2 meets requirements for completing a Certificate of High School Achievement

Certificate of High School Achievement Path | -4 Course Sequence

ELA 10-4, 20-4, 30-4 (5 credits)

1. build language skills and learn additional reading and writing strategies for success
2. emphasize practical applications that support your understanding, communication, and other occupational skills
3. prepare for the world of work or further training that may not involve post-secondary
4. **Important** | written consent and a learning plan are required to register in each -4 Knowledge and Employability (K&E) course

Option Courses

Career and Life Management (CALM – 3 credits)

This course is an Alberta Education requirement for a high school diploma. The goal of this course is to enable students to think, decide, plan and manage all aspects of their life. Students will be given the opportunity to develop behaviors and attitudes that contribute to the well-being and respect of self and others now and in the future. The CALM program focuses on personal development in the following three areas:

- Personal Choices | apply an understanding of the dimensions of health, and understanding the dynamic interplay of these factors in managing personal well-being.
- Resource Choices | explore options, make responsible decisions in the use of finances and other resources that reflect personal values and goals and demonstrates commitment to others.
- Career and Life Choices | develop and apply processes for managing personal, lifelong career improvement.

Academic Support Courses

Reading 15 / 25 (3 credits)

*This course has **no pre-requisite.***

In Reading 15-25 students will engage in diverse reading experiences. As they progress through the outcomes, texts may become increasingly complex allowing students to demonstrate a deeper level of understanding. The reading skills gained through this course will allow students to achieve success in their senior high school courses as well as transfer their knowledge to multiple situations and contexts beyond school.

Math 15 (3 credits)

*This course has **no pre-requisite.***

Competencies in Math 15 will cover topics including number sense, logical reasoning, measurement, algebra, graphical reasoning, statistics and probability. The course will enhance numeracy skills in students, develop their critical thinking and problem solving abilities, and set them up for success in future courses in mathematics.

Social Sciences

Psychology

The objectives of courses in psychology are designed to develop within the student the skills and understandings that make it possible for more effective living in our complex environment. The student's attention will focus on the scientific approach to understanding human behavior so that they may appreciate more fully the reasons that underlie one's own acts and those of one's peers

Personal Psychology 20 (3 credits)

*This course has **no pre-requisite.***

The objectives of the personal psychology will focus on the scientific approach to understanding human behaviour so that students may appreciate more fully the reasons that underlie one's own acts and those of one's peers. In Personal Psychology 20, students will explore the following themes:

- Theme 1 – Introduction to Psychology
- Theme 2 – Personality
- Theme 3 – Behaviour
- Theme 4 – Intelligence
- Theme 5 - Heredity & Environment
- Theme 6 – Biological Influences on Behaviour
- Theme 7 - Understanding Perception

Abnormal Psychology 35 (3 credits)

***Pre-requisite**: Psychology 20*

Psychology - Abnormal 35 provides students with an overview of normal and abnormal behaviour within the conditions that affect individuals in our society. Students learn about perspectives of abnormality, causal factors, types of disorders, as well as assessment methods, prevention, and treatment.

Political Science

Political Science is the study of government and government systems. Students taking courses in Political Science will understanding processes of political decision making, relationships in society between citizens and government, and how political systems and decisions impact the world.

International Politics 30

*Recommended **pre-requisite:** Social 10-1*

The objective of International Politics 30 is to give the student an understanding of the development and importance of international relations. This understanding is brought about by examining how paradigms of international relations are reflected in such concepts as balance of power, rivalry, international peace forums and international economic relations.

This course blends a mixture of conceptual learning, class simulation, and case study exploration in learning how countries interact on the world stage.

History

History courses are designed to provide students with the opportunity to develop understandings of key events that form the roots of the present. In history courses, students are challenged to rethink assumptions about the past and to reimagine both the present and the future. It helps students become well-informed citizens who approach issues with an inquiring mind and exercise sound judgment when presented with new information or a perspective different from their own. Historical thinking skills involve the sequencing of events, the analysis of patterns and the placement of events in context to assist in the construction of meaning and understanding.

Western World History 30

*Recommended **pre-requisite:** Social 10-1*

Western World History is a historical survey course, in which students take a broad view of some of the key events in the history of the western world from 600 BCE to present day. As students explore these events and periods, they will be applying the historical thinking dimensions to develop an understanding of the relationship between events and periods. Periods covered include Ancient Greece and Rome, the Middle Ages, the Renaissance and Reformation, Enlightenment Europe and the Age of Revolution, and conflict in the 20th century.

CTS Clusters

A cluster is a group of CTS courses that represents occupations and broad industry commonalities. Clusters in CTS are aligned with National Occupational Classification (NOC) and function as an organizing tool for the CTS program.

The CTS Program Includes 5 Clusters

1. *Business Administration, Finance & Information Technology (BIT)*
2. *Health, Recreation & Human Services (HRH)*
3. *New Media & Communication Arts (MDC)*
4. *Natural Resources (NAT)*
5. *Trades, Manufacturing & Transportation (TMT)*

CTS courses are taught in modules and are designated with a number

- *10 or Introductory Level*
- *20 or Intermediate Level*
- *30 or Advanced Level*

A student will earn one credit for each module completed. Some modules have prerequisites that must be completed. Advanced modules can be used for admission to some post-secondary institutions. Students can enroll in the same CTS course multiple times as there are numerous modules available at the introductory, intermediate, and advanced levels.

Computer Science and Programming

Attention Gamers and Smartphone users! This course provides an excellent challenge for students interested in problem solving. Software design and programming skills are developed using several different computer "languages" for both business and gaming applications. Course content is presented through DOING. Students will start in the development of their own software applications and even have the opportunity to be introduced into the world of robotics.

Cosmetology

Students will learn the importance of positive self-image as well as hair basics, including hair and scalp care, basic and creative hair braiding, forming and finishing (curling and designing the hair). Introductory hair cutting/trimming may be offered. Students are required to pay a fee to cover costs, please refer to the fee schedule for specific class fees.

Financial Management

Does the idea of starting your own business interest you? Take this course to learn the terms and practices that businesses use to record and manage their day to day transactions. Along with the fundamentals of accounting, students are introduced to computer simulations on investments, learning about single owner and service business and exploring the exciting world of stock market investment and analysis.

Foods

This is a module based course with each module worth one credit upon completion of its requirements. It is required to complete a minimum of 3 modules per semester. All aspects covered in these modules will help the student become more confident in the kitchen. Students are required to pay a fee to cover all cooking costs, please refer to the fee schedule on page 14 as prices are subject to change.

Health and Fitness

Health and fitness have become very important words in modern times with so much information available but where do we find the right information? Health and Fitness 10 will give students the skills they need to understand the information about their own health, wellness, fitness and nutrition. As a class, we will work on the theory of health by including nutrition, anatomy and flexibility. We will also work to better understand and practice good training and exercise.

Media Design

Students will explore a variety of topics including graphic design, website development and 3D printing and modeling. Adobe Photoshop, Illustrator, After Effects and other applications from the Adobe Creative Suite will be explored and used to create student projects. Students will be introduced to hands-on sketching, drawing, and image manipulation. Students will use applications from the Adobe Creative Suite to create portfolios that showcase their digital creations. This course is of special interest to those who are interested in combining art and creativity with computer technology.

Outdoor Pursuits

This course is designed to prepare students to become comfortable, knowledgeable and safe conservationists while taking part in outdoor recreation. Camping and self-propelled activities such as backpacking and mountain biking will push individual personal limits and promote active living. Students interested should be prepared to take part in a variety of risk activities, team building, and have a concern for the sustainability of the natural environment Outdoor Pursuits is a CTS option. Physical Education 10 is a requirement for this course.

Photography

Learn the basics of photography including rule of thirds, dynamic range, negative space and how light affects the mood, texture and feeling of a photograph. Students are required to pay a fee to cover costs, please refer to the fee schedule on page 14 as prices are subject to change.

Robotics

Students use an appropriate Robot Control Language (RCL) to design, develop, implement and debug robotics programs that employ standard structured programming constructs and simple data structures. In the process, they develop a general understanding of robots and the robotics environment. There will be a fee to cover costs, please refer to the fee schedule on page 14 as prices are subject to change.

Shop

This is a module based course with each module worth one credit upon completion of its requirements. The objective is to introduce trade elements and industry standard equipment, and allow students to acquire skills and knowledge that match their interests and career possibilities. Modules are offered in welding, construction, electrical, mechanics etc. Students are required to pay a fee to cover costs, towards their first project and material costs, please refer to the fee schedule on page 14 as prices are subject to change.

Textiles

This is a module based course with each module worth one credit upon completion of its requirements. Students can learn to safely use a sewing machine and other textile arts such as knitting, crocheting, cross-stitch, and machine embroidery. Students are required to pay a fee and purchase supplies for other modules. Please refer to the fee schedule on page 14 as prices are subject to change.

Tourism

This course is designed to teach students about the economic, social, and environmental impact that tourism has in Alberta. Students will gain knowledge of the industry by participating in a number of tourism-related activities.

Video and Animation

Students will learn the technology and procedures to create movies from conception to output to DVD. Students will work through script writing, storyboarding, video capture, video editing, sound editing, video composition and finally outputting to different media such as YouTube or DVD.

Wildlife

The Wildlife course has been designed to meet the needs of our active outdoor student enthusiasts. In this course students will develop the attitudes, skill and knowledge related to wildlife, ecosystems and an understanding for the need to manage wildlife. Students will also investigate the diversity of Canadian wildlife in terms of structure, behavior, and habitat and compare Alberta wildlife with wildlife in other parts of the world. Also, students will conduct animal dissections and a parasite project that extend and enhance their attitudes, skills and knowledge towards wildlife.

Fine Arts

The Fine Arts (Art, Instrumental and Choral Music, & Drama) develop lifetime skills: such as self-discipline, concentration and abstract and critical thinking. Students are involved as creators, performers, historians, critics, and patrons as they enhance their breadth and depth of expression and intuitive response.

Art 10/20/30 (3 or 5 credits)

All Art courses will involve drawing, painting, sculpture, and other media. Art may be taken for 3 credits or 5 credits. Art 30 must be taken for 5 credits. Students are required to pay a fee to cover costs, please refer to the fee schedule on page 14 as prices are subject to change

Band (Concert) 9/10/20/30 (5 credits)

Concert Band is comprised of any grade 9-12 student who can play a wind or percussion instrument. There is a performance component to this course and students are expected to attend some evening and weekend performances throughout the school year. This course is only offered for a full year.

Students are required to pay a fee for band instrument rental and a fee for a band uniform rental.

Band (Stage) 15/25/35 (5 credits)

Stage Band is comprised of grade 10, 11 and 12 students who play saxophone, trombone, trumpet, piano, bass, guitar and drums and audition each year to become a part of this group. There is a performance component to this course and students are expected to attend some evening and weekend performances throughout the school year. This course is only offered for a full year.

Drama 10/20/30 (3 or 5 credits)

Drama involves the exploration of various forms of artistic communication between participant's intent communicating the message to an audience.

Method of communication and skills developed include: speech, movement, writing, directing, improvisation, acting, and play writing. Drama 30 must be taken for 5 credits.

Physical Education

Physical Education 10 (PE – 3 or 5 credits)

The aim of the W.R. Myers High School physical education program is to enable students to develop the knowledge, skills and attitudes necessary to lead an active, healthy lifestyle. A minimum of three (3) PE credits must be achieved for a student to qualify for a High School Diploma. The following areas will be emphasized:

- Variety of movement experiences will be provided in all dimensions; i.e., alternative environment, dance, games, types of gymnastics and individual activities.
- Personal exemptions may be warranted from one or more dimensions and/or the course requirement as a whole. Student/Parents should contact the school Principal for further details.

Physical Education 20/30 (3 or 5 credits)

The PE 20/30 course is a continuation of PE 10. The course provides additional opportunities for students to participate in activities. The course continues to emphasize active living, daily participation and well-being. A greater emphasis will be placed on developing leadership skills and qualities. Students are required to pay a fee to cover costs, please refer to the fee schedule on page 14 as prices are subject to change.

Active Living 10/20/30 (3 credits)

Active Living course is to provide an opportunity for students to engage in physical activities which teach students various individual skills and knowledge with the goal of promoting life-long physical activity. This course will differ from Physical Education 10/20/30 in that the focus will be mainly on individual activities, knowledge, and skills, with very little emphasis on competition, traditional sports, or group activities/games. Example activities include, but are not limited to; walking, hiking, biking, swimming, weight training, yoga, pilates, tai chi, boxing, various individual exercise programs, etc. Students will receive PE 10/20/30 credits for this course.

Second Languages

French 10/20/30 (5 credits)

Introduction to basic practical French language and expand knowledge at each course level taken. French 30 does not require a diploma exam, but is accepted as an academic course at several Canadian Universities. This course is only offered on a semester basis.

Religious Studies

Seminary 15/25/35

Seminary is a locally developed program facilitated by The Church of Jesus Christ of Latter-day Saints. It provides students with weekday religious instruction. It assists youth in improving study, communication and self -improvement skills.

Biblical Studies 15/25/35 (3 credits)

Biblical Studies 15/25/35 examines the scriptures and historical context of the Old and New Testament from an *Evangelical Christian perspective*. World religions are examined in comparison to the Evangelical Christian worldview and the doctrines of religions are compared in-depth. The application of sacred teaching, interpretation of scriptures and worldview beliefs in relation to moral and ethical decision-making are examined from a variety of perspectives.

1. *Religious Studies 15: Old Testament Survey* seeks to develop a general knowledge of the 39 books of the Old Testament with a focus on understanding how the Old Testament relates to the coming of the Messiah. This course will seek to build respect and tolerance for other faiths by a detailed study of Jewish faith and culture.
2. *Religious Studies 25: New Testament Survey* seeks to develop a general knowledge and understanding of the teachings of the New Testament in comparison with Old Testament understandings. Students will be challenged to find relevant application of their learning to everyday situations.
3. *Religious Studies 35: Christian Apologetics & Comparative Religion 35* will compare and contrast the Christian worldview with other major world religions. This is an in-depth course that delves into the central teachings of major world religions, including Islam, Judaism, Buddhism, Hinduism, and Christianity.

Locally Developed Classes

Astronomy 15/25 (3 credits)

The purpose of Astronomy 15 is to provide extended opportunities for students to deepen their understanding of astronomical principles beyond Science 9. Throughout the course, students will enhance their scientific literacy and numeracy through the application of active observation and documentation skills (diagrams, sketches, field notes) of various celestial bodies visible in the day-time and night-time skies.

In Astronomy 25, students will develop an understanding of Astronomy beyond the basics that students acquire in Astronomy 15. While inundated with space and astronomy in modern media, many students remain unaware that the sky is constantly changing above them. Using a variety of astronomical tools such as telescopes, binoculars, and lenses students in the Astronomy sequence will experience first-hand observations that foster foundational understandings.

Forensic Science 25/35 (3 credits)

Content includes the collection and analysis of evidence from crime scenes, the principles of fingerprinting, breathalyzers, polygraphing, and DNA analysis. A major component is an analysis of real crime cases including the Laci Peterson murder, the infamous John Dillinger, the Zodiac killer, the O.J. Simpson case, the Atlanta Child Murders and the tragic death of Princess Diana. There is a final exam.

Film & Media Arts 15/25/35 (3 credits)

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 can encompass narrative, technical and artistic elements; all of which are examined in this course.

Off-Campus Programming

Off-campus education is a partnership among schools, employers and students that supports and enhances students' learning. The learning experiences provided allow students to expand pathways into the workplace and to explore career interests and abilities.

Work Experience 15/25/35

This sequence of courses is available to senior high school students. Students work with an employer to complete individually defined learning experiences. One credit is earned for 25 hours of experience. HCS3000: Workplace Safety Systems is a 1-credit prerequisite course for the first off- campus education program taken by a student. The following credit options are available:

1. Work Experience 15 (3–10 credits)
2. Work Experience 25 (3–10 credits)
3. Work Experience 35 (3–10 credits)

Students will be able to count a maximum of 15 credits obtained in Work Experience toward their diploma requirements.

Green Certificate Program

The Green Certificate Program for senior high school students allows students in Grade 10, 11 and 12 to participate in an agriculture-related apprenticeship, earn credits, and complete the Technician Level of a Green Certificate in any one of seven specializations. AGR3000: Agriculture Safety is a 1-credit prerequisite course for students enrolling in the Green Certificate Program.

The Green Certificate Program consists of 11 specializations:

- Beekeeper production
- Cow calf beef production
- Dairy production
- Equine production
- Feedlot beef production
- Field crop production
- Greenhouse production
- Irrigated field crop production
- Poultry Production
- Sheep production
- Swine production

Registered Apprenticeship Program (RAP)

The Registered Apprenticeship Program is a program in which students spend part of their time in school and part of their time in industry as registered apprentices in one of Alberta's 49 designated trades. A student becomes eligible for RAP after grade 10.

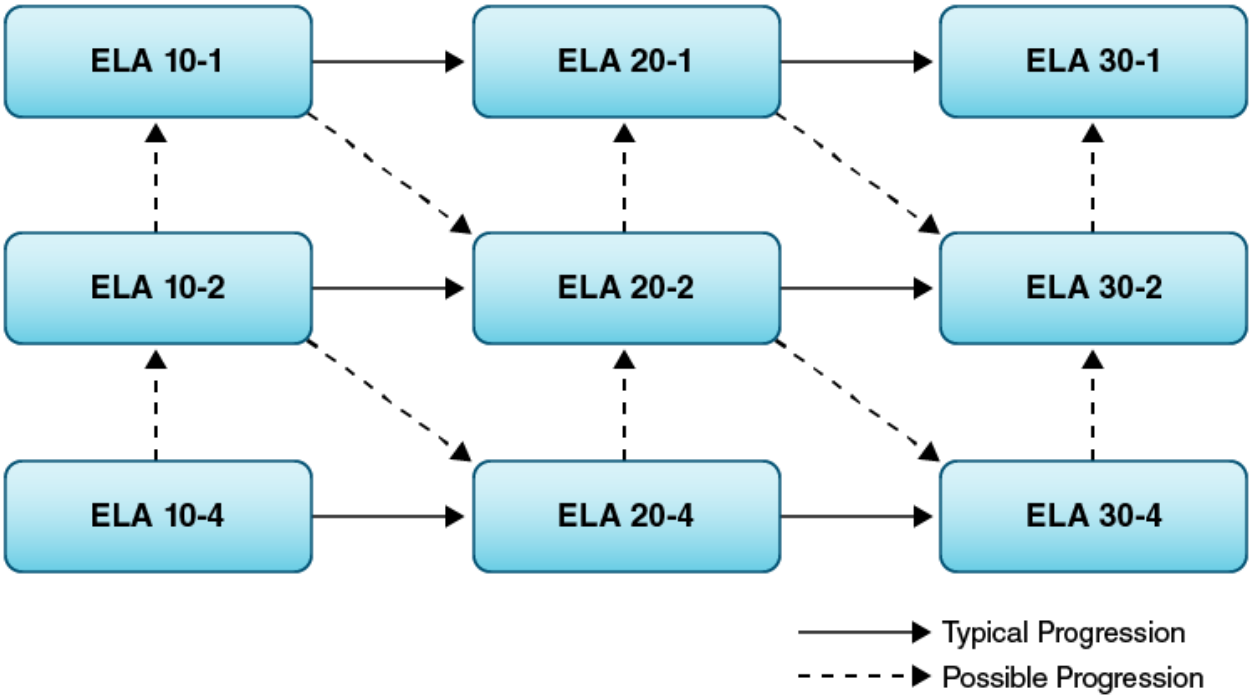
HCS3010: Workplace Safety Practices is a 1- credit recommended prerequisite course for students enrolling in the Registered Apprenticeship Program (RAP). A RAP student can earn up to 1000 hours of time credits toward an apprenticeship and simultaneously earn up to 40 credits toward senior high school diploma requirements. RAP courses within each trade designation must be taken sequentially (15, 25a, 25b, 25c, 35a, 35b, 35c, 35d). Students are responsible for finding a placement with a registered tradesperson and registering with Alberta Apprenticeship to be eligible for this program.

Appendix I: Course Sequences and Transfer Points

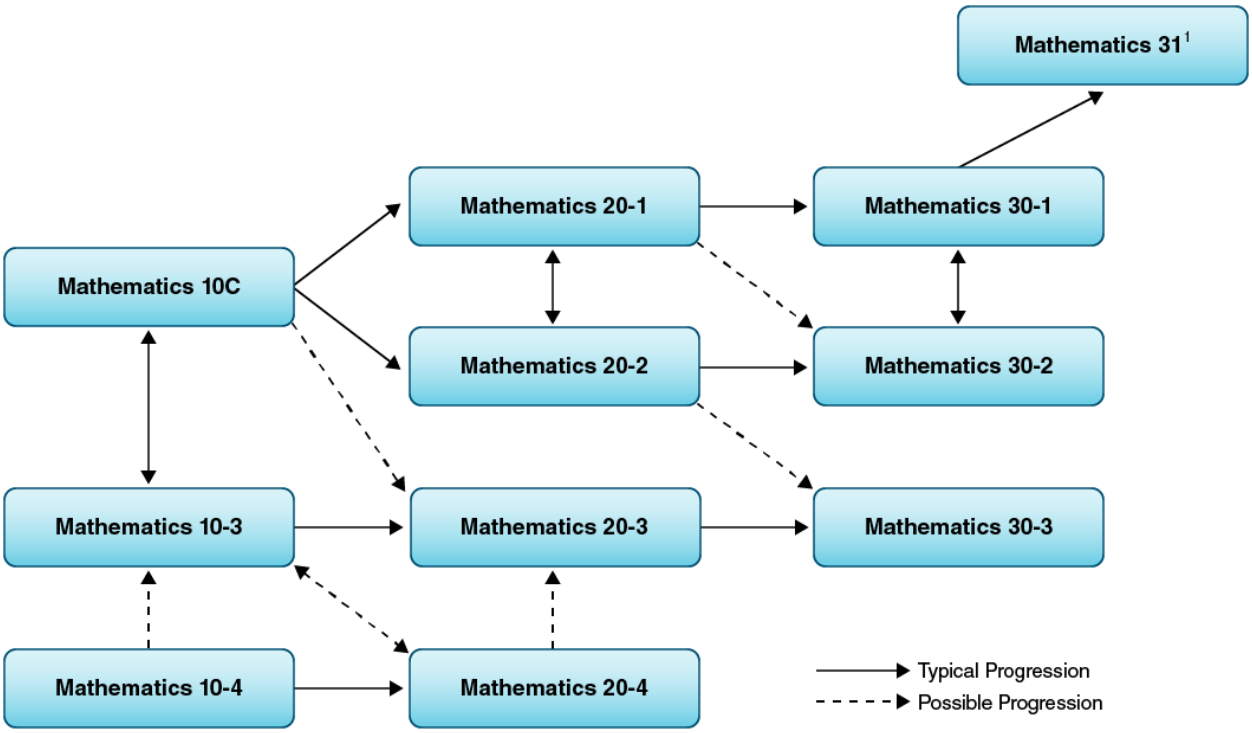
In senior high school, provincially developed programs are designed to accommodate transfer between course sequences at particular points.

Students generally take the prerequisite in a course sequence (e.g., English Language Arts 10-1, 20-1, 30 1). This route is designated by solid arrows. However, Alberta Education recognizes that students may transfer between course sequences and these possible routes are designated by broken arrows.

English Language Arts (ELA) Program

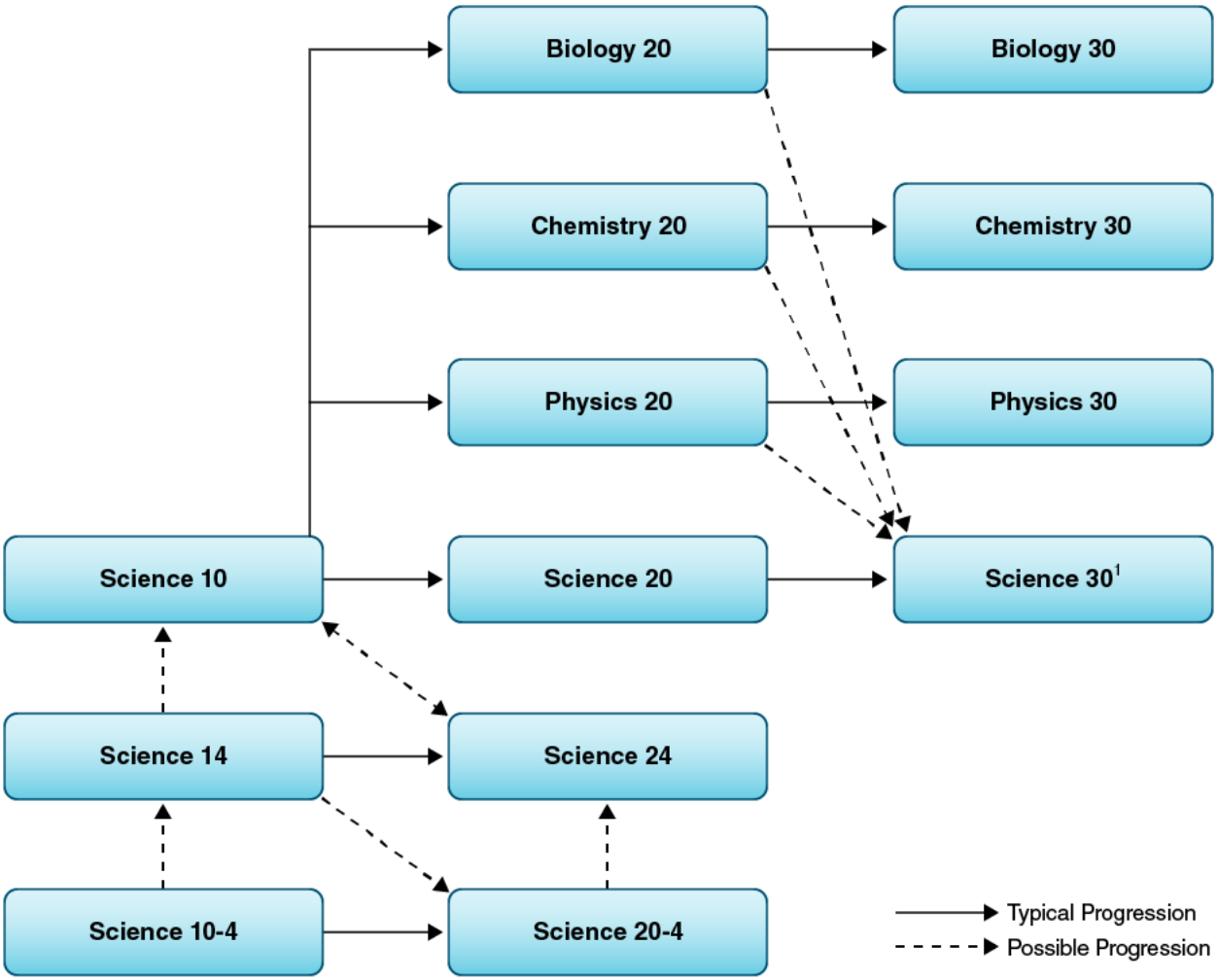


(Each course is 5 credits.)



(Each course is 5 credits.)

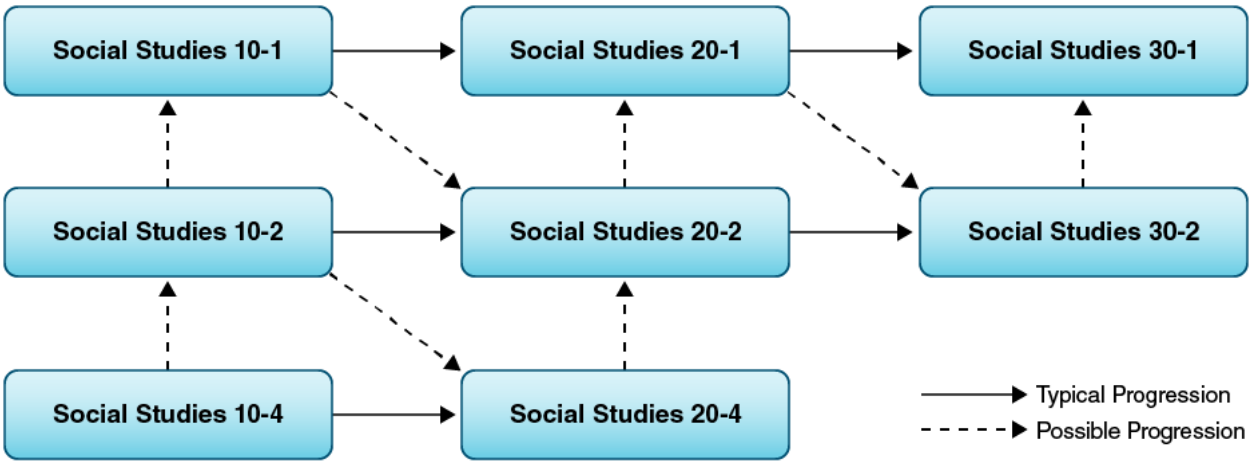
[1]Mathematics 30-1 is a prerequisite or corequisite for Mathematics 31.



(Each course is 5 credits.)

[1]Students who have achieved a final mark of 50% or greater in any one of Biology 20, Chemistry 20, Physics 20 or Science 20 may enroll in Science 30.

Social Studies Program



(Each course is 5 credits.)

Knowledge and Employability Occupational Courses to Career and Technology Studies (CTS) Courses