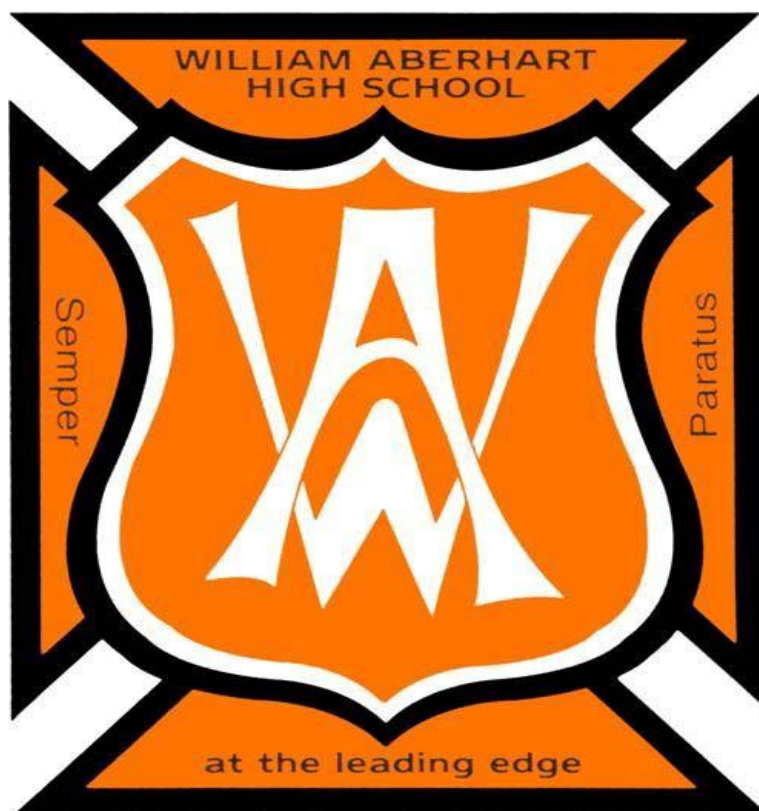


REGISTRATION GUIDE 2014-2015



William Aberhart High School

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Calgary Board of Education

Welcome to WILLIAM ABERHART HIGH SCHOOL 2014 - 2015

William Aberhart High School is a comprehensive English, Spanish Bilingual, and French Immersion school of 1500+ students located in the northwest community of Banff Trail, near the University of Calgary. We offer the largest French Immersion program in Alberta and are the first high school in Canada to offer the Spanish Bilingual program. In addition to a strong academic program, William Aberhart offers Advanced Placement courses, ratio of 1:5 fully networked computers, a comprehensive Athletics program, a diverse Fine Arts program, a variety of Career and Technology Studies courses and a wide selection of Co-curricular and Extra-Curricular activities. Our goals of Personalization and Support for Learning align with CBE's Three Year Plan.

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WILLIAM ABERHART HIGH SCHOOL

Registration Guide

GENERAL GUIDELINES

The information in this Guide is based on our program decisions as of December 2013 and may change from the time of printing. Some changes are available programs available may occur as a result of student requests or other information from Alberta Education or the Calgary Board of Education. Check our web site at www.aberhart.ca regularly for complete up to date program information.

All students should become familiar with the requirements for obtaining a Alberta High School Diploma, as outlined on the following page. **Grade 12 students should pay particular attention to this document and ensure all requirements for the Alberta High School Diploma are met.**

Program selection is based on a student's current achievement, capabilities, interests, goals, and teacher recommendations. As students progress through high school, goals may change. The flow charts in this guide for English, Social Studies, Mathematics and Sciences present information on changing program level, provided that achievement warrants it. **50% is the minimum required mark to continue to the next level in any course sequence.**

Students are advised to select courses carefully ***since the school schedule is based on student requests***. Students are often more successful repeating a course in a different learning environment. Students will not be allowed to repeat a course more than once. Based on low student requests, **the school reserves the right to cancel a class**. A student placement in Grade 10 courses will only be changed if there is a change in recommendation from Junior High or Summer School marks.

Students planning a cultural exchange or travel program during their high school years are advised to plan their program in consultation with their counsellor at William Aberhart. Grade 11 is the recommended year to participate in an exchange program.

Students cannot retake a failed course in the second semester of the current year.

THE ALBERTA HIGH SCHOOL DIPLOMA

The **ALBERTA HIGH SCHOOL DIPLOMA** is an official document issued by Alberta Education and certifies that the holder has completed a prescribed program of instruction at a high school or through other formats under the direction and supervision of Alberta Education.

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 Language Arts 30-1 or 30-2
 - ✓ Social Studies 30-1 or 30-2
 - ✓ Mathematics 20-1 or 20-2 or 20-3
 - ✓ Science 20 or 24 or Biology 20 or Chemistry 20 or Physics 20
 - ✓ Physical Education 10 (Minimum 3 Credits)
 - ✓ Career and Life Management (CALM)
 - ✓ 10 credits, in any combination, from:

Career and Technology Studies (CTS)

AND / OR

Fine Arts

AND /OR

International Languages

AND / OR

Physical Education 20, Physical Education 30

AND /OR

Locally developed/acquired and authorized courses.

AND / OR

Two 35 level courses from any trade in the Registered Apprenticeship Program

- **10 credits in any 30-level courses** (in addition to English Language Arts 30-1 or 30-2 and Social Studies 30-1 or 30-2.).

KNOWLEDGE AND EMPLOYABILITY (K & E) COURSES

Knowledge and Employability courses are designed for students who meet the criteria and learn best through experiences. These courses teach basic employability skills in occupational contexts. Students who have been in Knowledge and Employability courses in their junior high are recommended for these courses. Aberhart counsellors will work with these students, their parents and junior high counsellors in course selection. Students enrolling in Grade 10 level Knowledge and Employability courses will work toward meeting the Alberta Certificate of High School Achievement requirements.

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

(Earn a minimum of 80 credits.)

(Complete and meet the standards of the following specified courses)

- ✓ ELA 20-2 or ELA 30-4
- ✓ Social Studies 10-2 or Social Studies 20-4
- ✓ Science 14 or Science 20-4
- ✓ Math 10-3 or Math 20-4
- ✓ Physical Education 10 (3 credits)
- ✓ Career and Life Management (3 credits)

Complete and meet the following additional standards:

5 credits in

- ✓ 30-level Knowledge and Employability Occupational course, or
- ✓ 30- Level Career and Technology Studies (CTS), or
- ✓ 30- Level locally developed course with an occupational focus

And

5 credits in

- ✓ 30-level Knowledge and Employability Workplace Practicum course, or
- ✓ 30-level Work Experience Course, or
- ✓ 30-level Green Certificate Course, or
- ✓ 30-level Registered Apprenticeship Program (RAP) course

HIGH SCHOOL INFORMATION

COURSE CREDITS: Each course has an assigned credit value determined by the number of hours of instruction during the year. Three credits are given for half courses; 5 credits for full courses. Career and Technology Studies (CTS) courses consist of single credit courses offered in 5 credit blocks. **A final mark of 50% or higher must be obtained in order to earn credit in any course.** Students who require more than 3 years to finish their program may choose to complete their diploma at Chinook Learning Services or apply for an optional 5th or 6th semester of high school at Aberhart.

ABERHART COURSE SELECTION: Most students take a full program each year, accumulating more credits than required. Grade 10 students are expected to take a total of at least 40 credits with no spare periods. 35 credits are considered a full course load for Grade 11 students. 30 credits are considered a full course load for grade 12 students.

COURSE CHANGES: Considerable time and effort is spent by teachers, guidance counsellors, parents, and students in selecting appropriate courses in the spring. Students may not change their timetable in any way without first consulting their guidance counsellor. A change will only occur if it is in the student's best interest and if adequate consultation has occurred amongst the student and his/her teacher, counsellor, parent, and administrator. No changes will be considered after the first week of class. Priority will be given to students requesting grade appropriate courses.

REPEATING COURSES: A failed course cannot be repeated in the same school year

DIPLOMA COURSES: (English, FLA, Social Studies, Math, Sciences) The diploma examination is written at the end of the 30 level course and the mark is worth 50% of the final grade. When averaged with the school-awarded mark, the final grade must be 50% or greater for a student to earn credits.

WITHDRAWAL FROM COURSES: Students in grade 11 or 12 may be allowed to withdraw from a course for extraordinary reasons up to the published withdrawal date deadline. Students must formally request to withdraw from a course. Students meet initially with their guidance counsellor to discuss the withdrawal and begin the formal paperwork
Students must attend class until a final decision has been made.

For more detail information check the Student and Parent Handbook.

COURSE CHALLENGES:

(For students thinking of challenging a course, the following criteria should be considered)

- The Principal is responsible for determining a student's readiness for course challenge. In the determination of readiness, the Principal may consider the student's chance of successfully meeting the acceptable standard for the course, and the student's apparent capacity to handle successfully the course at the next level.
- The Principal must ensure that assessment of a student for course challenge includes strategies that will assess the breadth and scope of the learning expectations for the course, as outlined in the program of studies.
- The assessment of the student's knowledge, skills, and attitudes must reflect the unique learning outcomes of the course being challenged, encompass a variety of assessment strategies, and include the following three components:
 - a) a demonstration,
 - b) a formal interview, and
 - c) a formal examination
- The Principal must ensure that a student who successfully demonstrates achievement of the expected standard for the outcomes for the course is awarded a final course mark and credits for the course challenged, except in diploma examination courses. In a diploma examination course, the school-awarded mark will be blended with the diploma examination mark before a final course mark or credit is possible.
- Check the website for specific requirements by course.

COUNSELLING SERVICES: Students are assigned alphabetically and appointments are booked through the secretary in the counselling office. Guidance counsellors offer a variety of services including assistance with:

- Educational planning
- Career exploration
- Post-secondary information
- Financial assistance
- Personal/social counselling
- Information on Scholarships, bursaries, loans)

FRENCH IMMERSION PROGRAM

The French Immersion Program combines students from both continuing and late Immersion programs. William Aberhart awards two levels of French Immersion Certificates:

CBE—Certificate of Achievement in French Immersion.

French Immersion Certificate: A student must obtain (average of 375 instructional hours per year) 45 credits: 15 in French Language Arts, 15 in Mathématiques and 15 in Études Sociales to receive the CBE French Immersion Certificate.

CBE – Certificate of Achievement in French Immersion with DISTINCTION: A student must obtain (an average of 375 instructional hours per year) 45 credits: 15 in French Language Arts, 15 in Mathématiques and 15 in Études Sociales, and maintain an average of 80% or more in the 9 French Immersion courses taken at William Aberhart.

In addition students can also receive the (CBE) - Certificate of Achievement in FI with 50 Credits.

A student will not receive either certificate if he/she chooses to take in English a course that is offered in French. In this case, a school letter will be given to the student(s) who have earned between 35-40 credits in French Immersion

FRENCH IMMERSION PROGRAM POLICY:

Students who enrol in the French Immersion Program at William Aberhart High School are expected to make the commitment to remain in the program for their three years in high school. Our counsellors rely on information from the junior high school counsellors and Immersion teachers regarding potential for success at the senior high level. The decision to continue in Immersion should be based on your achievement and willingness to continue in the French Immersion program.

Students enrolled in the French Immersion Program must show commitment to their French Immersion studies by **speaking French at all times in all classes where French is the language of instruction**. All courses follow the Alberta Curriculum and therefore are part of the regular program leading to the High School Diploma.

The following policy guidelines are in place.

- Registration for the Immersion Program will consist of Language Arts, Mathematics and Social Studies in French.
- Students will plan to complete all requirements of the French Immersion High School Certificate within three years.
- Students enrolled in FI must finish the current school year in FI before enquiring for a program transfer.
- Students who are not successful in the French Immersion Program or who decide to withdraw from the program will be asked to follow the Aberhart FI withdrawal process and, if out of bound **may be directed to their designated school for the next school year**.
- Course challenge guidelines are posted on the website, please see the Learning Leader

Counsellors, Learning Leader and language teachers are available to assist students and parents in their decisions.

Mandatory French Immersion Program Courses

French Language Arts	10-1, 20-1, 30-1, or 20-2, 30-2
Social Studies	10-1F, 20-1F, 20-2F, 30-1F, 30-2F
Mathematics	10CF, 10CFAP, 20-1F, 20-1FAP, 20-2F 30-1F, 30-1FAP, 30-2F
Mathematics	31F is offered but not required

SPANISH BILINGUAL PROGRAM

Students enrolled in the Spanish Bilingual Program must show commitment to their Spanish Studies by speaking Spanish at all times in all classes where Spanish is the language of instruction. There are 25 or more credits for the Spanish Bilingual Program that are included in the 100 required credits for a High School Diploma. All courses follow the Alberta Curriculum and therefore are part of the regular program leading to the High School Diploma.

The following policy guidelines are in place:

- Registration for the Spanish Program will consist of 15 credits in the Spanish Language Arts, 5 credits in Mathematics 10CS and one of our many options.
- Students will plan to complete all requirements of the Spanish Program High School Certificate within three years.
- Students enrolled in SB must finish the school year in SB before enquiring for a program transfer.
- Students who are not successful in the SB Program or who decide to withdraw from the program will be asked to follow the **Aberhart SB withdrawal process** and **may be directed to their designated English program school for the next school year**. Counsellors, learning leader and language teachers are available to assist students and parents in their decision.
- Course challenge guidelines are posted on the website, please see the Learning Leader

Certificate of Achievement in Spanish Bilingual.

Mandatory Spanish Bilingual Program Courses:

Spanish Language Arts 10, 20, 30

Mathematics 10CS

Spanish option courses: (one of the following)

Art 10S, Art 20S, Sculpture 15S, Sculpture 25S, Multi-Media 15S (Introductory) and Multi-Media 25S (Intermediate).

ADVANCED PLACEMENT (AP) COURSES

The AP Program is internationally recognized for its university level courses and is designed for students who have demonstrated strength and interest in a particular field of study. Courses offered at William Aberhart vary due to expressed student interest and available staff.

What are the significant benefits of AP?

- Enriched exploration of subjects beyond the outcomes of Alberta Education's Programs of Studies
- Greater breadth and depth of study in the discipline
- Heavier emphasis on writing, reading, comparative study and problem-solving
- Higher degree of independence
- Possible post-secondary admission advantage for those Grade 12 students who write the international examination in May

Please note: Students interested in pursuing AP courses at Aberhart should speak to their guidance counsellor about the application process and admission procedure. Admission varies by course. More information about AP and the universities who accept may grant credit for AP is on the school webpage: www.aberhart.ca

Advanced Placement Courses			
Course	Grade 10	Grade 11	Grade 12
English	.....	English 20AP	English 30AP
Science	.....	.....	.....
Biology	.....	Biology 20/30 AP 10 Cr	Biology 35AP (sem 2) 3 Cr
Chemistry	.....	Chemistry 20	Chemistry 30AP (sem 1)
		.....	Chemistry 35AP (sem 2) 3 Cr
Physics	.....	Physics 20 AP	Physics 30 AP
Math	Math 10-CAP	Math 20-1AP	Math 30-1AP
		.....	Math 31 AP (calculus AB Level)
Political Science		.....	Political Science AP (sem 2)
French Language		French AP (sem 2)	French AP (sem 2)

INTERNATIONAL CERTIFICATE PROGRAM

(Please note: this program is available to all students)

Contact: International Student Coordinator to register

The International Certificate is a way of recognizing and valuing the significant contributions, work, and experiences of an International nature that students have accomplished throughout their CBE journey.

This is a one to three year commitment and students will be expected to showcase their international work and study in an electronic portfolio.

Module #1 Languages

- Completion of 125 hours of second language study.
- Intercultural competency training

Module #2 Course Work

- Completion of social studies 10, 20, 30 at the -1, -2, or -4 level.
- Completion of at least 5 credits of "internationalized" course work
Internationalization of 3 assignments within regular coursework

Module #3 International Experience

- Commitment of at least three months to an international experience. This includes preparation, planning, implementation, and reflection.

ENGLISH Language LEARNERS (ELL) Expectations for students whose English Language proficiency is level 2 to 4

The English Language Learning Program, (formerly known as ESL) at William Aberhart customizes and tailors our programs based on student need and desire. We are looking at expanding our course offerings for the fall of 2014 to include specialized ELL Science classes and English classes. Our focus as a school is to provide challenging academic subjects that are designed to enrich the English Language Learners vocabulary, knowledge and experiences at our school as well as usher our students along the road to obtain high school credits and graduate. As we are in the process of evaluating and re-working our course offerings, please check the school website frequently in order to read about what we will be offering in the fall of 2014 as we will be publishing more information shortly.

Course Placement Policy

Course placement for ELL students who are studying English as an additional language will be determined by the ELL team. Timetabling and course registration will be determined based on English Language proficiency and core course assessments.

COURSE DESCRIPTIONS

CAREER AND LIFE MANAGEMENT

CAREER AND LIFE MANAGEMENT (CALM) (3 credits)

Students explore themes of Personal and Interpersonal Challenges, Career Exploration, Financial Planning, Consumer Choices, Human Sexuality and Healthy Relationships. Learning activities promote decision-making to encourage students to reflect about present and future choices encountered in daily life. This course is offered at the Grade 11 level and is a graduation requirement for all students.

Students have two options for completing their CALM requirements.

- The face-to-face classroom is the ideal learning environment in for this course, especially given the extremely personal and individualized nature of the course materials. It is recommended all students who can fit CALM 20 into their timetable in Grade 11 should take it in this manner.
- The online learning option is available for students whose timetables are full, or who are involved in extra-curricular or co-curricular activities that may require them to miss a significant amount of instruction (more than 5 days). Students who are in band, AP, French Immersion, French Exchange, sports or other time consuming activities outside of school might find this a more manageable option.

Prerequisites for Online CALM:

- Students must be fairly proficient at file management, reading online text, moving between online environments and downloading and uploading documents.
- Students should have access to a computer (preferably Windows based) at home. There is no guaranteed access to a computer at school.
- Working in an online environment requires initiative, problem-solving skills, excellent self-discipline and time management.
- Students registered in online CALM must complete it within the semester.

CAREER AND TECHNOLOGY STUDIES (CTS)

Aberhart's Career and Technology Studies offer students opportunities to balance and complement their academic career with activities that build skills and challenge creativity.

Career and Technology Studies (CTS) offers a series of pathways comprised of individual learning models (courses) worth one credit each. Learning is reinforced by practical and written activities. Students take CTS courses in the following sequence: Introductory, Intermediate, and Advanced. Some universities allow students to use one Advanced Level CTS course to form part of their average for entrance requirements.

BUSINESS, ADMINISTRATION, FINANCE AND INFORMATION TECHNOLOGY CLUSTER

Business, Administration, Finance and Information Technology Cluster (BIT)

Computer Science Pathway	Financial Management Pathway
Introductory Computer Science	Introductory Financial Management
Intermediate Computer Science	Intermediate Financial Management
Advanced Computer Science	Advanced Financial Management
Information Processing Certifications	Small Business Pathway
MS Office Certifications	Introductory Small Business
Introductory MS Office Certifications	Intermediate Small Business
Intermediate MS Office Certifications	Advanced Small Business
Advance	

COMPUTER SCIENCE

Computer Science courses will allow students to develop analytical skills and problem solving abilities which are applicable to a wide range of career choices. The knowledge gained from the 3 levels of this course will also provide an excellent head start for students who are interested in pursuing the following courses at Post-Secondary: Engineering, Computer Science, Programming/Application Development and Web Development. At the Advanced level, Computer Science may be used to fulfill one of the Science requirements for University entrance. As well, students are able to write the Advanced Placement Computer Science exam.

COMPUTER SCIENCE – INTRODUCTORY (5 Credits)

(70% in Math 9 recommended)

This course will give students an introduction to programming using Visual Basic .NET. Students will also gain a basic understanding of hardware architecture and software development processes. Students will also be exposed to the basics of game theory. Prior programming experience is NOT necessary for success.

COMPUTER SCIENCE- INTERMEDIATE (5 credits)

Students will extend their knowledge from Computer Science Introductory. They will code instructions to solve more complex identified problems and they will transition to their second programming language, Java. Opportunities will also exist for students to pursue their own interests such as graphics-based games and smart phone app development.

COMPUTER SCIENCE - ADVANCED (5 credits)

Students will further extend their skills developed in Computer Science Intermediate and they will be able to explore areas that most interest them. Many of the problems studied will be directly related to introductory programming courses at the post-secondary level. Programming will be done in Java and potentially in another language or development environment of the student's choice.

FINANCIAL MANAGEMENT

The 3 levels of this course will be ideal for students interested in planning a career as an entrepreneur and/or pursuing post-secondary careers in Business Management, Commerce and Financial Administration.

FINANCIAL MANAGEMENT-INTRODUCTORY (5 credits)

Financial Management Introductory covers basic accounting procedures such as journalizing transactions and maintaining ledgers, the preparation of financial statements and banking activities for small service and merchandising businesses. This is an ideal course for students pursuing a career in business, in post-secondary management/business or planning a career as an entrepreneur.

FINANCIAL MANAGEMENT - INTERMEDIATE (5 credits)

Students will extend their knowledge from Financial Management Introductory. Here, students will learn accounting concepts for a merchandising business and they will expand on their knowledge gained on fundamental accounting procedures. They will learn about preparing financial statements, banking statements for retail business and apply principles of accounting to payroll.

FINANCIAL MANAGEMENT - ADVANCED (5 Credits)

Students will further extend their skills developed in Financial Management Intermediate. Students will explore personal taxation, investment planning and areas of interest in the field of financial investments.

INFORMATION PROCESSING

The knowledge gained from the 3 levels of this course will provide students with the foundation needed to prepare for the Certification Exam for Microsoft Office to become a certified Microsoft Office Specialist if they would like to be certified.

MICROSOFT OFFICE ESSENTIALS INTRODUCTORY (5 credits)

Basic computer skills are required in most career fields. In Microsoft Office Certifications, students will learn word processing, spreadsheets, database, and presentation software using Microsoft Office 2010.

MICROSOFT OFFICE ESSENTIALS INTERMEDIATE (5 credits)

Students will extend their knowledge from Microsoft Office Certifications Introductory. Due to the nature of the class, students should be self-directed, independent workers. This course is a prerequisite for Microsoft Office Certifications Advanced.

MICROSOFT OFFICE ESSENTIALS ADVANCED (5 credits)

This level prepares students for the certification exams. Due to the nature of the class, students should be self-directed, independent workers. Students mastering this course will be able to prepare for Microsoft Office Certification Exams to become a certified Microsoft Office Specialist. **“The student will be responsible for the Exam Fee.”**

SMALL BUSINESS

SMALL BUSINESS - INTRODUCTORY (5 credits)

Understanding how to organize and operate a small business is a complex, yet desirable career for many Canadians. In this course, the students will explore and learn the basics of operations and experience the planning process required to begin a small business.

SMALL BUSINESS - INTERMEDIATE (5 credits)

The students will continue to develop the skills they learned about the basics of operations and the planning process required to begin a small business. An excellent course to complement future studies in Marketing, Management and Entrepreneurship.

SMALL BUSINESS - ADVANCED (5 credits)

The students will advance the competencies of the planning process required to begin a small business and possibly establish a small business to test out their learning. An excellent course to complement future studies in Marketing, Management, and Entrepreneurship or business courses.

TRADES, MANUFACTURING AND TRANSPORTATION CLUSTER

Trades, Manufacturing and Transportation Cluster (TMT)

Automotive Technology Pathway	Woodworking Pathway
Introductory Automotive Technology	Introductory Woodworking
Stream A – Engine Diagnosis	Intermediate Woodworking
Stream B – Electrical Diagnosis	Advanced Woodworking
Stream C – Auto Service Tech Apprenticeship	

AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY - INTRODUCTORY (5 credits)

This course introduces the student to the basic construction and operation of the modern automobile and its related systems. Emphasis is placed on providing a fundamental understanding and appreciation of basic system servicing and operation while following proper safety methods and procedures. In the shop the students will learn safety skills, tool and equipment usage, measurement skills, basic vehicle servicing and car care that will provide a “hands on” experience that reinforces the understanding of classroom theory. The student’s time is divided 60/40 between the shop and classroom. Students must provide their own coveralls.

AUTOMOTIVE TECHNOLOGY – INTERMEDIATE/ADVANCED (Streams A & B - 5 credits each)

The automotive technology course will help students use their service and repair knowledge gained during the introductory level. The course is divided into two streams that can be taken individually. For students wanting a minimum of five Grade 12 CTS credits, both streams must be taken.

STREAM “A” - ENGINE DIAGNOSIS - INTERMEDIATE/ADVANCED

Examines the workings of the modern automobile’s fuel injection and computerized ignition systems and the services that help to keep these important systems operating.

STREAM “B” - ELECTRICAL DIAGNOSIS – INTERMEDIATE/ADVANCED

Examines the modern automobile’s major electrical components and the computer controlled braking and suspension systems found in most vehicles built today.

STREAM “C” - AUTOMOTIVE SERVICE TECHNICIAN APPRENTICESHIP (GRADE 11/12)

This course requires 80% in Grade 10, an application form and an interview. Automotive service technicians perform preventative maintenance, diagnose faulty operations, and repair automotive vehicles and light trucks; Chassis, Electrical, Steering, Suspension and Front End Alignment as well as basic welding skills. Students will complete 15 credits over 3 semesters in order to prepare themselves for the first period Apprenticeship theory and practical examinations. When complete, this stream will lead to accreditation in ASA as a first period apprentice with advanced standing. To be successful in this stream, students must be very motivated, independent workers with the intent of becoming a mechanic as a career choice.

AUTOMOTIVE SERVICE APPRENTICESHIP

Grade 10 Auto is a prerequisite.

Students must be interviewed first with select suitable candidates being given this opportunity. Students begin to learn their skills as an Automotive Service Technician and upon successful completion of the Automotive Service Technician Apprenticeship Pathway may choose to write the external articulation exam for first period apprenticeship. The course covers 15 credits over 2 semesters in one school year.

WOODWORKING

The Woodworking Program is for all students regardless of their experience in woodworking. Students will have access to a woodworking shop fully equipped with modern machinery, high quality hand tools, and stocked with beautiful hardwoods and high grade softwoods. Woodworking is an excellent way to learn craftsmanship and provides a good complement for your high school academic classes. Previous students have made their own skateboards, longboards, electric guitars, speaker-boxes, veneered chess boards, snowboards, skis, tables, storage cabinets, stools and more. (Classes are a blend of Introductory, Intermediate and Advanced students.)

INTRODUCTORY WOODWORKING: (5 Credits)

Introductory Woodworking is designed to introduce students to the planning, designing and construction of a variety of projects. Students learn the safe use of hand tools and power tools, project management, theories and practice of building with solid wood, fundamentals of wood turning (lathe), and the roles and types of manufactured woods. Projects are prescribed in order to safely learn all tools in the shop in a systematic manner. However, students who work efficiently will have time for a small project of their own interest at the end of the semester.

INTERMEDIATE WOODWORKING: (5 Credits)

Intermediate Woodworking is for the student wanting to enhance the planning, design and construction skills that they learned in the introductory level. Students go beyond building from a plan, to modifying existing plans, to constructing one-of-a-kind creations. A wider array of power tools, machining techniques and wood properties are used to enhance the look and complexity of the students' projects. Students learn to use multiple materials (wood, glass, plastics), box construction, frame-and-panel construction, enhanced finishing techniques and a project of their choice, such as a skateboard. Additional fees may be required for some optional projects.

ADVANCED WOODWORKING: (5 Credits)

Advanced Woodworking is designed to further enhance student planning, designing and construction skills. Students learn proper techniques of tool maintenance, leg-and-rail construction, veneering processes and two minor or one major project of their choice. Possible project ideas include an electric guitar, a snowboard, or a pair of alpine skis. Students completing the advanced class will have entry level skills for the woodworking industry, as well as excellent transferable hands-on-skills that are useful for a multitude of other careers. Additional fees may be required for some optional projects.

MEDIA, DESIGN AND COMMUNICATION ARTS

Design Studies Pathway	Fashion Studies Pathway
Introductory Design Studies Intermediate Design Studies Advanced Design Studies Design Studies (Spanish)	Fashion Studies –Grade 10 Intermediate Fashion Studies Advanced Fashion Studies
Multi-Media Pathway	
Introductory Multi-Media Intermediate Multi-Media Advanced Multi-Media Introductory Multi-Media (Spanish) Intermediate Multi-Media (Spanish)	

DESIGN STUDIES

INTRODUCTORY DESIGN STUDIES: – COMPUTER ASSISTED DRAFTING - (6 credits)

Design Studies is strongly recommended to students planning a career in drafting, engineering, architecture, or interior design. Introductory Design Studies introduces the student to drafting and computer aided drafting (CAD). This course provides the student with an overview of drafting fields and the types of work performed by drafts people in industry. The student learns primarily through drafting projects consisting of single view, multi-view (orthographic projection), dimensioning, sectional views, auxiliary views, pictorial views and modeling perspective drawing assignments. The course is designed to be self-paced, self-directed with co-operative learning.

INTERMEDIATE DESIGN STUDIES: RESIDENTIAL DESIGN/DRAFTING - (6 credits)

Prerequisite: Design Studies Introductory

Intermediate Design Studies offers an excellent background for prospective interior design, architecture or architectural technology students. Using computer aided design software; the student prepares complete working drawings of a single-family residence of their own design within the parameters set by the instructor. Emphasis is placed on design (practical, functional, efficient, and realistic), materials, building standards, and architectural symbols.

ADVANCED DESIGN STUDIES: ARCHITECTURAL DESIGN – (6 credits)

Prerequisite: Design Studies Intermediate

Design Studies Advanced allows the student to further explore the design process and drafting techniques as it relates to their own particular project. Research and design projects may include (but are not limited to) architectural, mechanical and interior design.

FASHION STUDIES

The Fashion Pathway at Aberhart is designed to be a relaxing hands on experience. Students choose their own projects and designs. For those who like machinery there are sewing machines, embroidery machines, and sergers. Knitters can use traditional needles, circular needles or learn to crochet. Leather workers use tools to stamp, dye, carve and stitch. Fashion design students can work through units to help create and express their fashion flare. Beading and quilting students use the internet to help find patterns and instructions. This program allows students to come with little knowledge or previously acquired knowledge and go from there. 5 credits in fashion at the grade 12 level can be used for entry to university, college, SAIT, Olds and other post-secondary institutes.

Creative Endeavors (grade 10) 5 or 6 credits

Students choose projects from fabrics, yarns and leather and create projects that reflect their approach to life. Each student becomes competent learning to cut, stitch and accessorise to show their own styles. Some popular projects are knitted hats and scarves, rag quilts, PJs, leather belts, beaded necklaces and Tom style slippers.

Fashion Flare (grade 11) 5 or 6 credits

Students show their style and preferences in the projects they create. Stylish colors, patterns, and creativity help students produce projects such as yoga wear, quilting, leather accessories and fashion pieces. Students may do a fashion design unit at this level where they create personal line of clothing. Knits and stretch fabrics allow students to create lines of exercise fashions and flowing draping clothes. All other areas of interest begun in grade 10 can be pursued and elaborated upon. Projects in the past have included yoga clothes, quilting, leather moccasins, and personal lines of clothing.

Fashion Fiesta (grade 12) 5 or 6 credits

Fashion at the advanced level gives the student an opportunity to show off their skills. Students choose personal projects which in the past have included grad dresses, onsies, embellished skirts and upholstery projects. Students are encouraged to create what is important to them and to make the items personal. Fashion at the advanced level allows students to express their preferences in clothing, merchandising, home design or other areas of interest.

MULTIMEDIA

MULTIMEDIA INTRODUCTORY in SPANISH (5 credits)**For Spanish Bilingual Students or Students Whose First Language Is Spanish**

This class will give students the opportunity to familiarize with the design process and its stages. The research and creative components will provide students with a profound understanding of the technical and artistic elements of the design process as related to the projects in the multimedia modules. Students will also gain knowledge and experience in the areas of photography and editing. Students will be using Aberhart's high end Canon Digital SLR's and Video cameras for producing work. In addition, industry standard computers and software packages (Adobe Creative Suite 4 Master Collection) will allow students to enhance their photography projects. On course completion, students will create a DVD that will showcase their multimedia skills and projects.

MULTIMEDIA - INTRODUCTORY (5 credits)

Digital Photography and using video to make short films are the main elements of this course. Using the school's digital SLR and video cameras, students will explore lighting, color, texture, composition and other subject matter to achieve a solid grounding in both technical and creative photographic processes. In our multimedia lab, students will learn to utilize Adobe CS 6's Master Collection in order to edit, enhance and exhibit their work. This course is not only fun, it helps students succeed in core courses which call for multimedia presentations.

MULTIMEDIA – INTERMEDIATE – (5 credits)**MULTIMEDIA - ADVANCED (5 credits)**

This class is for students who have successfully completed the Introductory Multimedia course and wish to expand their skills and expertise in one of the following two streams:

STREAM “P” - DIGITAL PHOTOGRAPHY AND PHOTO EDITING (5 credits)

Digital Photography and Photo Editing- students will enhance their skills with respect to camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to produce well-executed images using a variety of photographic and photo manipulative approaches.

STREAM “V” - VIDEO AND VIDEO EDITING (5 credits)

This stream enhances student understanding of various aspects of video production including concept development, scripting, camera operation and post-production. Emphasis is placed on realization of the unique creative vision. Upon completion, students should be able to produce a thematically coherent, edited video with sound and titling.

MULTIMEDIA - INTERMEDIATE in SPANISH (5 credits) – Master Class

For Spanish Bilingual Students or students whose first language is Spanish This is for students who have successfully completed the Introductory Multimedia course and wish to expand their skills and expertise in one of the following two streams:

STREAM “P” - DIGITAL PHOTOGRAPHY AND PHOTO EDITING (5 credits)

Digital Photography and Photo Editing-students will enhance their skills with respect to camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to produce well-executed images using a variety of photographic and photo manipulative approaches.

STREAM “V” - VIDEO AND VIDEO EDITING (5 credits)

This stream enhances student understanding of various aspects of video production including concept development, scripting, camera operation and post-production. Emphasis is placed on realization of the unique creative vision. Upon completion, students should be able to produce a thematically coherent, edited video with sound and titling.

HEALTH, RECREATION AND HUMAN SERVICES CLUSTER **FOOD STUDIES**

Food Studies Pathway	Legal Studies Pathway
Beautiful Baking/Colourful Cooking Mighty Meal/Delicious Desserts Creative Baking/Plate Pizza	Advanced Legal Studies
Sports Medicine Pathway	Sports Performance Pathway
Introductory Sports Medicine Intermediate Sports Medicine Advanced Sports Medicine	Introductory Sports Performance Intermediate Sports Performance Sports Performance 35

FOOD STUDIES

INTRODUCTORY (5 credits)

This is Not Commercial Foods

Interested in making snacks, cakes, and easy meals? Join us as we plan, make and display our dishes! This class is for students who HAVE and HAVE NOT taken Foods in Junior High. Working in groups, we choose our recipes, choose our ingredients and make our dishes. Give yourself an opportunity to make new friends, learn a few new skills and have some nice food to eat for a semester! Possible topics covered are Food Basics, Contemporary Baking, Snacks and Appetizers, Meal Planning 1, Fast and Convenience Foods and Canadian Heritage Foods.

INTERMEDIATE - (5 credits)

Note: Grade 11 or 12 students who wish to take Foods courses for the first time should register for this level. The prerequisite will be covered. This program is an excellent support to Sports Performance and Sports Medicine.

This program introduces students to the skills needed to create meals and desserts. The students find the cost of the ingredients and then learn to stay within a budget while maintaining a nutritious and delicious product. Students work in groups and as individuals while practicing their skills and then demonstrate the end products by sharing their food with the class. Topics covered are Cake and Pastry, Yeasts, Breads and Rolls, Soups, Stocks and Sauces, Vegetarian Cuisine, Food Venture and Creative Cold Foods.

ADVANCED (5 credits)

This program is a continuation of the intermediate level. We build on previous skills and create superior looking and tasting products that appeal to certain groups and themes. By collaboration we create tables that appeal to summer themes, winter themes, celebration times and specific events like football or hockey nights. The quality of food created looks excellent, tastes better and makes the students proud of their skills. Topics covered are International Cuisine, Food for the Life Cycle, Food Presentation, Entertaining with Food, Food Processing and Food Evolution and Innovation.

LEGAL STUDIES

LEGAL STUDIES - ADVANCED - GRADE 11 & 12 Students (5 credits)

In Legal Studies, students will canvas 4 or 5 major areas of the law; criminal and constitutional law including human rights; family law and divorce; the law of contracts including consumer contracts, tort law and, if time permits, probate law. Students will develop an understanding of the effect of law on their daily lives and gain familiarity with the various careers available to people in the justice system. Five one-credit-courses will be provided at the Advanced level which will allow the student to achieve 5 credits. A Socratic method of teaching will be employed; so a portion of the grade will be based upon contributions to the classroom discussion.

SPORTS MEDICINE

SPORTS MEDICINE – INTRODUCTORY, INTERMEDIATE & ADVANCED LEVELS

(5 credits each level)

The Introductory, Intermediate and Advanced levels of Sports Medicine offer a foundation for those students who are interested in such careers as Athletic Therapy, Physiotherapy, Occupational Therapy, Nursing, Chiropractic, Sports Medicine, Physician, Kinesiology, Pro Athlete/Coach, Firefighter, Paramedic (EMR/EMT), Fitness Instructor, Massage Therapy or any other of the many Medical and Sport Sciences. The aim of Aberhart's Sports Medicine program is to enable individuals to develop the knowledge, skills and attitudes necessary to be successful in the pursuit of the many medical, first aid and sport career pathways related to Sports Medicine. Sports Medicine includes a knowledge base of human anatomy, physiology, kinesiology, taping and strapping, therapeutic modalities, athletic training, the prevention, treatment, and rehabilitation of injuries, sports nutrition, massage therapy, emergency first aid/ CPR and much more.

The major emphasis of these three levels is to apply the skills learned to real life situations. The senior level courses build upon the principles and skills learned in Introductory Sports Medicine, with the focus of expanding upon injury rehabilitation and the application of these principles.

The five one-credit courses to be completed at each level:

Introductory Sports Medicine

Health Services Foundations, Musculoskeletal System, Injury Management 1, Technical Foundations for Injury Management and First Aid/CPR with AED.

Intermediate Sports Medicine

Injury Management 2, Cardiovascular System, Intermediate level Project Course: Physio and Rehab with our special needs ACCESS class, Community Volunteerism 1 – Service hours, Pain and Pain Management.

Advanced Sports Medicine

Injury Management 3, First Responder 1, Advanced level Project course – taping skills and modalities, Community Volunteerism 2 – Service Hours, Senior level Project course – Advanced ACCESS class physio and rehab, Senior Practicum.

First Aid certification at each level:

- Introductory Sports Medicine - Standard First Aid with level C CPR.
- Intermediate Sports Medicine - HCP (Health Care Provider) CPR certification.
- Advanced Sports Medicine - Standard First Aid Recertification, CPR Recertification at the HCP (Health Care Provider) CPR level.
- *HCP - CPR is an entrance requirement for nursing and dental hygienist programs and is recommended for those going into Sports Medicine and Medical pathways .

A fee is required to cover the First Aid certifications, and off-campus lab experiences at SAIT.

For further program details and CTS course outlines please refer to the Alberta Education Senior High School Health Services (HES) Programs of Study at:

<http://education.alberta.ca/teachers/program/cts/program-of-studies/hrh.aspx>

SPORTS PERFORMANCE

SPORTS PERFORMANCE

Introductory (5 credits)

Intermediate (5 credits)

Advanced (5 credits)

The focus of Sports Performance is to engage students in modern training principles, to enhance athletic development for competing in activities and sports that require high levels of fitness. Students will learn both the theory and application of each of these training principles as it applies to their personal development. Students will be actively participating in aerobic, anaerobic and strength training programs that include speed, agility and power development components to improve athletic performance. In addition, students will study areas of nutrition, sports psychology, and ergogenic aids as they relate to their impact on sports performance. A basic understanding of human anatomy and kinesiology will be explored to provide a framework for how athletes physically respond to a advanced training program. Students must be prepared to participate in a highly active and demanding training course. A fee is charged for a fitness pass and course needs.

OFF-SITE CTS RELATED PRGRAMS

REGISTERED APPRENTICE PROGRAM – RAP

See Guidance Counsellor

(Note: preplanning for participation in this program begins in Grade 10)

(By consent of Off-Campus Teacher)

The Registered Apprenticeship Program is a modified apprenticeship program that permits a high school student to become an apprentice while attending high school. Beginning at the end of grade ten, a RAP apprentice spends half a year in school and half a year on the job. While on the job, he/she is paid as a first year apprentice, accumulates hours towards his/her journeyman certificate and, at the same time, can earn as many as forty credits towards a High School Diploma. There are fifty apprenticeship trades and crafts currently available in Alberta. Many opportunities exist for high school students with good work habits and attitudes to begin a career as a qualified trade's person. Students must complete high school to receive apprenticeship credit.

WORK EXPERIENCE (by consent of Off-Campus Teacher)

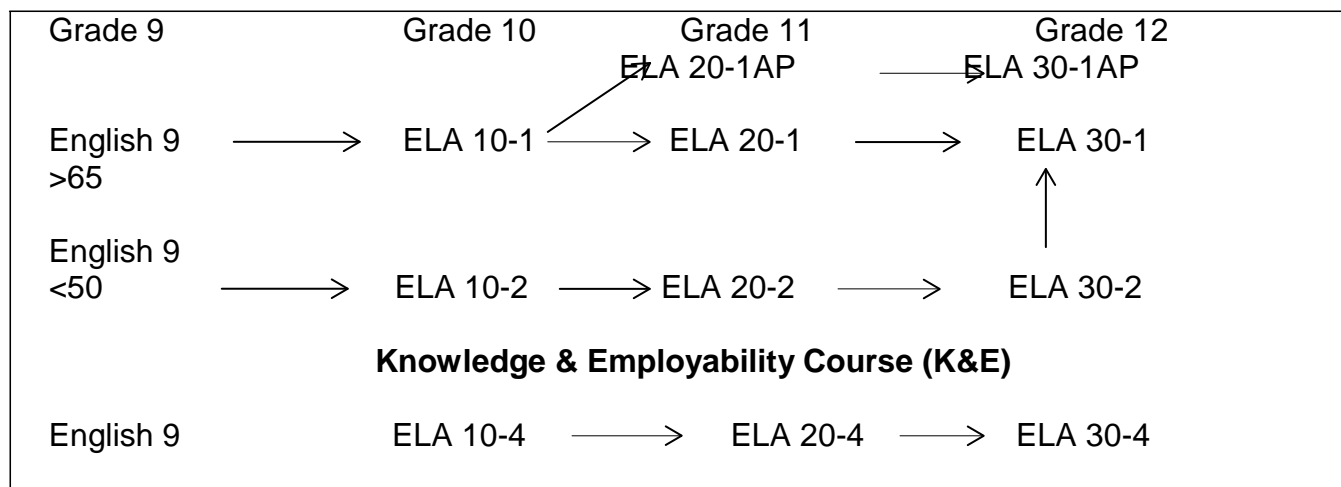
Prerequisite: HCS3000 (Workplace Safety Systems) is a 1-credit course where students gain the attitudes, knowledge and skills related to workplace health and safety and examine relevant legislation required in the workplace. This **must be completed** before the work experience component of the program begins.

In Grade 11 and 12 students who have jobs may use their work to earn credit toward graduation (some conditions apply). Once HCS3000 is completed, student can earn 1 credit for each 25 hours they work. Work Experience is scheduled into the timetable as a student must attend class for the first 2 weeks of semester. After that, the student goes to work at their regularly scheduled times. The teacher is in contact with the employer and the student by phone and in person. Students are responsible to meet in person with the teacher once a week at ABE. Students generally earn 3 to 5 credits per semester. Each student's schedule will be unique and individual.

CAREER INTERNSHIP 10

(Consent of Guidance Counsellor, ALP AND ACCESS Teacher) (3 credits for 1 term or 5 credits for a full semester) This is a workplace-based curriculum designed to assist students in making informed decisions about their school-career transitions. It is based on the philosophy of the "learner as worker and worker as learner." In William Aberhart, many of the students in this course have the opportunity to work in the Special Needs ALP and ACCESS classes which develop employability and workplace skills related to working with others, leadership, thinking, planning, organizing, flexibility, safety, managing transitions and managing change. This placement will develop knowledge, skills, and attitudes necessary to be successful in many educational, health services and rehabilitation careers.

ENGLISH LANGUAGE ARTS



Students registered in English Language Arts at William Aberhart High School will demonstrate increasing competence and confidence from Grade 10 to Grade 12 in the following five general outcomes from the program of studies:

- explore thoughts, ideas, feelings and experiences.
- comprehend literature and other texts in oral, print, visual and multimedia forms, and respond critically and creatively.
- manage ideas and information.
- create oral, print, visual and multimedia texts, and enhance the clarity and artistry of communication.
- respect, support and collaborate with others.

Both course sequences:

- maintain high standards to meet graduation requirements.
- require that students write a diploma examination upon completion of the 30 level course.
- feature the six language arts—listening, speaking, reading, writing, viewing and representing.
- encourage metacognition, student self-assessment, and student collaboration.
- emphasize correct and effective communication in a variety of formats, including communication for pragmatic purposes.
- have a minimum requirement of Canadian content.
- connect with some of the information and communication technology outcomes.
- emphasize career development directions.
- emphasize the importance of context in the student's creation and comprehension of text.
- emphasize a definition of “text” that includes oral, print, visual and multimedia forms.
- award 5 credits for each course successfully completed at each level.

IMPORTANT DIFFERENCES BETWEEN COURSE SEQUENCES

Differences between the two course sequences correspond to differences in students' needs, interests and aspirations. Students in the -2 stream are given more strategies to develop their study skills, reading, writing, personal connections to text. Students in the -1 stream develop critical and analytical understandings of complex texts. It is recommended that students have an average of at least 65% in their Grade 9 English Language Arts course to register in English 10-1.

Students need to identify their education and career aspirations before they decide which avenue of study they follow. By speaking with their counsellor, their English teacher, and with a career counsellor they will become more knowledgeable of the many options available to them.

If you would like a more complete overview of the content of both the 10-1 and the 10-2 English courses please access our school website, under the English tab (www.aberhart.ca)

ENGLISH LANGUAGE ARTS 10-2 (5 credits)

ENGLISH LANGUAGE ARTS 20-2 (5 credits)

ENGLISH LANGUAGE ARTS 30-2 (5 credits)

This stream offers many strategies to maximize success in English Language Arts. Students of English 30-2 are required to write the 30-2 Diploma Examination. This sequence is not designed to prepare students for entrance to university, though *many* colleges and trade school programs do accept this credit.

ENGLISH LANGUAGE ARTS 10-1 (5 credits)

ENGLISH LANGUAGE ARTS 20-1 (5 credits)

ENGLISH LANGUAGE ARTS 30-1 (5 credits)

The English Language Arts 10-1, 20-1, and 30-1 sequence is for students who have the ability and desire to write well, think critically and analytically, and reason abstractly. These courses are designed for students interested in pursuing university education. Students of English 30-1 are required to write the 30-1 Diploma Examination.

ENGLISH LANGUAGE ARTS 20-1 ADVANCED PLACEMENT (5 credits)

ENGLISH LANGUAGE ARTS 30-1 ADVANCED PLACEMENT (5 credits)

Students stand to benefit most by taking English 20 AP before English 30 AP, but those wishing to register for English 30 AP without the grade 11 course are still welcome.

The AP courses are developed with three basic objectives in mind. The first and foremost is to foster the enthusiasm of students with a strong love of literature. The second is to promote an approach to learning which will leave students better prepared for the rigors of University. The third is to ensure, as much as possible, success in the writing of the AP exam. Because of these three objectives, students can expect the literature, the required writing, and the pace, to offer greater challenge than in the regular program. Students who register in these courses must have proficient writing and reading skills and must be strongly self-motivated, independent learners.

While the nature of AP work may differ, the assessment of the work is similar to regular -1 English class. In both English 20-1 and English 30-1, the final exam is the same as that written in the regular course. In AP English 30, students have the *option* of writing the AP exam in May. A mark of 4 or 5 out of 5 may lead to credit granted at many universities in North America, but the results of the AP exam do not factor into the student's final English 30 grade.

ENGLISH 10-4 (K&E) Courses (5 credits)

ENGLISH 20-4 (K&E) Courses (5 credits)

ENGLISH 30-4 (K&E) Courses (5 credits)

The Knowledge and Employability English Language Arts 10-4, 20-4, 30-4 course sequence is designed to focus on the development *and* application of reading and writing in order to foster students' employability skills and to strengthen students' development of language. The courses assist students in transitioning from school to the workplace and community through hands-on, practical applications of the English Language Arts. **This course sequence is *not* designed for students entering a post-secondary institution.** The -4 course sequence does allow the student to earn a senior high school credential, enter the workplace, and transition to other courses in English (the English -2 sequence).

FINE ARTS AND PERFORMING

Prerequisite: Drama 10, consent of the drama department and the successful audition for an ABE play.

ART 10 (5 credits)

This foundation course consists of structured assignments that enable students to develop their creativity as well as technical skills. Art 10 focuses on three major components of visual learning:

- Drawing and Design - discovering ways of recording ideas using a variety of media such as paint, charcoal, pastel, pencil, and clay.
- Composition - finding ways to put visual information together to create meaning through – painting, sculpture, drawing, clay and photography.
- Encounters - studying the work of other artists - contemporary, historical and art across cultures, influencing understanding and choices. Students need to possess a genuine interest in art and a desire to develop creative skills.

Art 10 in SPANISH (5 credits)

For Spanish Bilingual Program Students or Native Spanish Speakers

This course offers the same structured assignments as the Art 10 (English) program. The class is conducted in Spanish and students are expected to communicate in the target language only. Particular attention will be paid to developing Art vocabulary for each unit. There will be exposure to Spanish and Latin-American artists who relate to the projects we are completing.

ART 20 (5 credits)

Prerequisite: Art 10

Art 20 offers more in-depth study of the arts: drawing and design, painting, graphics and sculpture. Emphasis is placed on learning good composition (visual organization in an artwork), creative expression using paint, pencil, pastels, clay, etc., and quality workmanship. Encounters with the work of other artists through research, AV presentations and discussions are regular parts of the program.

Art 20 in SPANISH (5 credits)

Prerequisite: Art 10S For Spanish Bilingual Program Students or Native Spanish Speakers

This course offers the same structured assignments as the English 20 Art program. The class is conducted in Spanish and students are expected to communicate in the target language only. Particular attention will be paid to developing Art vocabulary for each unit. There will be exposure to Spanish and Latin-American artists who relate to the projects we are completing, with special attention to the Master Reproduction.

ART 30 (5 credits)**Prerequisite: Art 20**

Art 30 is an extension of the Art 10 and Art 20 programs but greater emphasis is placed on student development of independent art study skills. A variety of drawing/design media is further explored for the making of art. Compositions in both two and three dimensions (painting, printmaking, sculpture) require a high level of student commitment and independence in developing creative ideas and following projects through to completion. Encounters with Arts: art research, discussions and critiques are integral parts of Art 30. It is beneficial if students are self-motivated and able to creatively solve visual problems presented, utilizing a variety of media.

SCULPTURE 15 – (5 credits)**Prerequisite: Art teacher's approval**

This course is designed for students who wish to engage in the creative process and are looking for an alternative to classical art instruction offered in Art 10, 20 and 30. Sculpture's focus is the "making or building" of artful ideas. Sculpture 15 allows students to design and create numerous projects, each having their own focus and materials usage. Students will be required to create and problem solve, using their own ideas, in 2-D and then translate them to 3-dimensional form. Students will be encouraged to experiment with materials such as clay, wire, paper, glue, string, thread, wood, paint, plastic and wax.

SCULPTURE 25 (5 credits)**Prerequisite: Sculpture 15**

Sculpture 25 allows the student to further develop problem-solving strategies in combination with design principles and elements in the undertaking of numerous projects that have a base in three dimensional form. These projects may use similar or the same materials explored in Sculpture 15 or, depending upon the desire and individualized learning focus of the student, may involve different materials. As in Sculpture 15, the student will be required to create and problem solve in 2-D and then translate these ideas into 3-D form. Students will be encouraged to experiment with materials such as clay, wire, paper, glue, string, thread, wool, plastic, paint, metal, glass and wax.

SCULPTURE 35 (5 credits)**Prerequisite: Sculpture 25**

This course is designed for students who wish to pursue post-secondary studies in 3-D studies with a specialization other than 2-D work. It will be a continuation of "Making or building" their own visions as well as developing and exploring pattern of others. Students will be required to create and problem solve ideas in 2-D form and then translate them to three dimensions. Students will be encouraged to experiment with materials such as clay, paper, glue, string, thread, wood, paint, plastic and wax.

SCULPTURE 15 in Spanish (5 credits)**Prerequisite: Enrolled in Spanish Bilingual Program or Native Speakers of Spanish**

Sculpture 15 is for students who are not planning to continue onto Art 20 but would like to explore 3D materials and techniques. Students will be required to create and problem solve by taking 2-dimensional ideas and turning them into a 3-dimensional form. Possible materials used will be clay, wire, paper, glue, string, thread, wood, paint, plastic and wax. All classes will be taught in Spanish and students are expected to use Spanish 100% of the time in class.

SCULPTURE 25 in Spanish (5 credits)**Prerequisite: Sculpture 15**

Enrolled in Spanish Bilingual Program or Native Speakers of Spanish Sculpture 25 is for students who are not planning to continue onto Art 20 but would like to explore 3D materials and techniques. Students will be required to create and problem solve by taking 2-dimensional ideas and turning them into a 3-dimensional form. Possible materials used will be clay, wire, paper, glue, string, thread, wood, paint, plastic and wax. All classes will be taught in Spanish and students are expected to use Spanish 100% of the time in class.

ART SPECIAL PROJECTS / PORTFOLIO DEVELOPMENT

Prerequisite: Art Teacher's approval

Self-directed study with teacher supervision and approval has been created specifically for those students who wish to focus on their artistic development. Students must attend all classes and be able to work with little direct supervision. This class is usually taken by students who wish to develop their portfolio for entry to art school or university.

DANCE 15 (5 credits)

Dance is an integral part of the arts. It focuses on the development and growth of the whole student (physically, cognitively, creatively and socially). Students can expect to have a studio style class focusing on different forms of dance in a non-competitive environment. No experience is necessary for this level of dance as all fundamentals and foundation will be introduced and reviewed. Areas of study include Jazz, Hip Hop, Contemporary, Creative and ethno-culture. Dance technique, creativity, choreography, anatomy, history and performance are all integral parts of the program. This is a performance-based class and participating in various performance opportunities is essential part of the program.

DANCE 25 (5 credits)

Prerequisite: Dance 15

This course challenges students to build on their skills in technique, strength, flexibility, and style that were previously developed in Dance 15. Genres of dance explored may include Hip Hop, Jazz, Contemporary, Creative, and Ethno-Culture. Dance 25 students will take on more of a leadership role in various aspects of dance. Choreography is more of a focus at this level as all students are expected to participate in various performance opportunities offered throughout the semester.

DANCE 35 (5 credits)

Prerequisite: Dance 25

Dance 35 offers students the opportunity to expand their skills and knowledge at a more advanced level. Genres of dance explored may include Jazz, Hip Hop, Ballet, Modern and Post Modern, Creative, Ethno Cultural. Choreography, anatomy, and dance history are more of a focus at the 35 level. Students will have the opportunity to take on the role as a choreographer from rehearsals to the final product on stage. All students are expected to participate in various performance opportunities offered throughout the semester.

DRAMA 10 (5 credits)

Drama 10 is an introduction to drama and theatre. Students will attempt to develop fundamental performance and theatre skills through intensive, active involvement in the theatre disciplines of Orientation, Movement, Speech, Improvisation, Script work, Acting and Technical Theatre. Through concentration, movement, voice and stage awareness, students will lay down the foundation for exploring Theatre as a creative expression of the human condition. This is an excellent course for all students as it helps develop interpersonal skills, self-awareness, self-esteem, confidence and public speaking skills. Full participation and a positive attitude are essential for success

DRAMA 20 (5 credits)

Prerequisite: Drama 10

Drama 20 explores skills covered in Drama 10 and Theatre in greater detail. Students will have the opportunity to write, perform and critique their work in a supportive and safe environment. The focus of Drama 20 is Acting, Playwriting, Technical Theatre and Theatre studies. Drama 20 is a performance based course requiring rehearsal, production and performance work. Students will perform both solo and group scripted projects for a public audience.

DRAMA 30 (5 credits)**Prerequisite: Drama 20**

The focus of Drama 30 is to build on the skills explored in Drama 10 and Drama 20 as more in depth performance skills are introduced. The focus of Drama 30 is directing, acting, auditioning and theatre studies. Students direct a one-act play and perform in two student-directed, one-act plays, for a public audience. Students also participate in the High school drama festival at the U of C in May.

FILM STUDIES 15 (5 credits) – LDC1107

This film studies course is designed for students who wish to develop an understanding of filmmaking and enhance their appreciation of film as an art form. This course does *not* focus on creating films. The overall goal of this course is to have students learn to appreciate film for its artistic, technological and communicative properties. There is a connection to the outcomes of the senior high English Language Arts Program of Study; however, the course allows students to go beyond the ELA program outcomes in the following areas:

- Technical production elements of film
- Film genre study
- Comparative analysis of film
- Cultural inter-relationships of film

FILM STUDIES 25 (5 credits) Prerequisite: Film Studies 15

Film Studies 25 will build on the material covered in Film Studies 15. History of film will be investigated more thoroughly and foreign films will be introduced. Films chosen for examination in class will generally be more complex and challenging than in 15. Students will be expected to demonstrate deeper and more complete understanding of film terminology and techniques. While in Film Studies 15 students will look at preproduction aspects of the making of a film, Film Studies 25 students will look at what goes into the production itself

ADVANCED ACTING AND TOURING 15**ADVANCED ACTING AND TOURING 25****ADVANCED ACTING AND TOURING 35 (5 credits each)**

Prerequisite: Drama 10, consent of the drama department and the successful audition for an ABE play.

In Advanced Acting and Touring 15/25/35, students work independently and within an ensemble to develop and refine performance skills beyond those covered in the drama curriculum. Students are involved in either lead or supporting rolls, becoming aware of, and performing all costume/make-up requirements for their character. Students have an opportunity to be involved in all the different disciplines that pertain to performance. This includes the school production in the fall and the High School Drama Festival at the U of C in the spring. This class meets outside the timetable after school and mornings, depending on the rehearsal schedule of the production.

2013-14: SEMESTER 1 – MUSIC DEPARTMENT ENSEMBLE SCHEDULE

TIME	MON.	TUES.	WED.	THURS.	FRI.
A.M. 7:15	Abe 1 and 2 Jazz Ensembles Grade 10 Women's Choir	Concert Choir (grades 11/12 & grade 10 men)	Abe 1 and 2 Jazz Ensembles	Jazz Vocal Ensemble	Abe 3 Jazz Clinics Wind Ensemble
LUNCH			Abe 3 Jazz Ensemble		
P.M. 3 :45 to 5 :45	Jazz Vocal Ensemble Abe 3 Jazz Ensemble	Concert Band	Concert Choir	Symphonic Band Grade 10 Women's Choir	Abe 1 and 2 Jazz Ensembles (2 :00 – 4 :00)

2013-14: SEMESTER 2 – MUSIC DEPARTMENT ENSEMBLE SCHEDULE

TIME	MON.	TUES.	WED.	THURS.	FRI.
AM 7:15	Abe 1 and 2 Jazz Ensembles Concert Choir (grades 11/12 & grade 10 men)	Grade 10 Women's Choir Wind Ensemble	Abe 1 and 2 Jazz Ensembles	Jazz Vocal Ensemble	Wind Ensemble
LUNCH			Abe 3 Jazz Ensemble		
P.M. 3 :45 to 5 :45	Jazz Vocal Ensemble Abe 3 Jazz Ensemble	Concert Band	Concert Choir	Symphonic Band Grade 10 Women's Choir	Abe 1 and 2 Jazz Ensembles (2 :00 – 4 :00)

How to register for Choir:

If you are interested in joining choir, simply choose 'choir' on your option selection form. You will be placed in the appropriate classes based on your gender, grade and whether or not you are also taking band.

Men who select 'choir' on their option form will be placed in Concert Choir (Choir 15). Choir students who are not registered in band will also be placed in Choral Music 10.

Women who select 'choir' on their option form will be placed in Grade 10 Women's Choir (Choir 15). Choir students who are not registered in band will also be placed in Choral Music 10.

Course Descriptions:

Choral Music 10 (5 credits)

Co-requisite: Women's Choir 15; Men: Concert Choir 15

Pre-requisite: None

Choral Music 10 takes place during the regular timetable and is mandatory for all non-band students new to the Choral program at William Aberhart. Students will automatically be registered for this course when they select 'choir' on their option selection form. The Choral 10 program focuses on vocal technique, sight-reading, ear-training, history and theory. Students have the opportunity to sing music from a variety of genres and a large range of musical ability and experience can be accommodated. This course is optional for band students.

Women's Choir 15 (5 credits)

Co-requisite: Choral Music 10

Pre-requisite: None * Please see chart for rehearsal times*

All women who are new to the choral program at William Aberhart will automatically be registered for Women's Choir 15, when they select 'choir' on their option selection form. Students will learn a variety of choral literature and will have the opportunity to perform at a number of concerts and festivals throughout the year.

Concert Choir 15 (5 credits)

Co-requisite: Choral Music 10

Pre-requisite: None * Please see chart for rehearsal times*

All men who are new to the choral program at William Aberhart will automatically be registered for Concert Choir 15 when they select 'choir' on their option selection form. Students learn a variety of mixed choral literature and have the opportunity to perform at a number of concerts and festivals throughout the year.

Choral Music 20/30 (5 credits each)

Co-requisite: Concert Choir 25/35

Pre-requisite: Choral Music 10 * Please see chart for rehearsal times*

Choral Music 20/30 takes place during the regular timetable and is mandatory for all non-band students registered in Concert Choir 25/35. The Choral 20/30 program focuses on vocal technique, sight-reading, ear-training, history and theory. Students have the opportunity to sing music from a variety of genres and a large range of musical ability and experience can be accommodated. This course is optional for band students.

Concert Choir 25/35 (5 credits each)**Co-requisite: Choral Music 20/30****Pre-requisite for Concert Choir 25: Grade 10 Women's Choir/ Concert Choir. Pre-requisite for Concert Choir 35: Concert Choir 25 * Please see chart for rehearsal times***

Students who have successfully completed Concert Choir 15 /Women's Choir 15 will automatically be registered for Concert Choir 25 when they select 'choir' on their option selection form. Students who have successfully completed Concert Choir 25 will be placed in Concert Choir 35. Students learn a variety of mixed choral literature and have the opportunity to perform at a number of concerts and festivals throughout the year.

Choral Ensemble 15/25/35 (5 Credits each)**Co-requisite: Choir 15/25/35 Audition is necessary**

This performance ensemble is comprised of choir students who are selected through an audition process. This ensemble performs a variety of repertoire including both jazz and chamber music at concerts and festivals as an extension of the Choral Music program. Students will automatically be registered for this class if they qualify.

INSTRUMENTAL MUSIC 10 (5 credits) (Pick Band / No Choir or Band and Choir)

Prerequisite: Completion of a Junior High School Band program or consent of the Music Director. **Co-requisite:** Band 15 Concert. The Instrumental Music 10 program provides an opportunity for students to develop as musicians through improvement of their skills developed in junior high. A large range of musical ability can be accommodated. The Music 10 program focuses on improving technical skills, sight-reading, theory and history and concert performances. More advanced students have the opportunity to play in various smaller ensembles: woodwind, brass, choirs, quartets, etc.

CONCERT BAND 15 (3 credits) (Automatically registered by school)**Co-requisite:** Instrumental Music 10 * **Please see chart for rehearsal times***

The concert band is an extension of the Instrumental Music 10 course. The concert band rehearses at different times outside of the normal timetable. Section rehearsals will be scheduled as needed throughout the year.

INSTRUMENTAL MUSIC 20 & 30 (5 credits each) Co-requisite: Band 25 or 35 Symphonic these levels are an extension and continuation of skills developed in Instrumental Music 10.

SYMPHONIC BAND 25/35 (3 credits each) (Automatically registered by school)**Co-requisite:** Instrumental Music 20 or 30 * **Please see chart for rehearsal times***

The symphonic band is an extension of the Instrumental Music 20 or 30 classes. The symphonic band rehearses at different times outside of the normal timetable. Section rehearsals will be scheduled as needed throughout the year

WIND ENSEMBLE 20/30 (5 Credits) Co-requisite:**Chamber Music 25/35 - Audition is necessary. * Please see chart for rehearsal times***

The Wind Ensemble is comprised of more advanced music students and is open to students in all grades. The experience of performing in an ensemble with one to two players per part motivates the finest students to take on exceptional musical challenges.

WIND ENSEMBLE 25/35 (5 credits)**Co-requisite: Wind Ensemble 20/30 (Instrumental Music) * Please see chart for rehearsal times***

This class is made up of grade 11 and 12 students selected for the wind ensemble through an audition process.

INSTRUMENTAL JAZZ 15/25/35 (3 or 5 credits each)
(Will be registered through the music department in the fall)
Co-requisite: Instrumental Music 10/20/30

Students will be auditioned for placement purposes and registered in one of three jazz ensembles, (big bands), according to ability and experience. Each ensemble rehearses either two or three times per week depending on the ensemble. Students will study the fundamentals of big band jazz including swing, Latin and other genres. Improvisation is an integral component of this course.

INTERNATIONAL LANGUAGES

FRENCH LANGUAGE ARTS

FRENCH LANGUAGE ARTS 10-1

FRENCH LANGUAGE ARTS 20-1

FRENCH LANGUAGE ARTS 30-1

(5 credits each)

For IMMERSION STUDENTS ONLY

The continued development of effective oral and written comprehension and production is the overall goal of these courses. The students should gradually feel at ease in a variety of communication situations. To achieve this aim, literary and non-literary sources, written texts, audio-visual and technology materials will be used. The use of vocabulary, verb tenses, orthography, syntax and style will be studied within the context of the various forms of communication. Students are expected to participate in a variety of oral projects as well as written productions. FLA 30 students have the opportunity to take the French Advanced Placement course and/or the D'eudes en langue fransaise (DELF) exam for an International Recognition of Language Proficiency. FLA 30-1 students will write the FLA 30-1 diploma exam.

FRENCH LANGUAGE ARTS 20-2

FRENCH LANGUAGE ARTS 30-2

(5 credits each)

FOR IMMERSION STUDENTS ONLY

The FLA-2 program is offered, and highly recommended, for students who experienced challenges in French comprehension and production during previous FLA courses. The course is predominantly project based and follows the FLA-2 program of studies. In addition, this program offers further opportunities to work with our learning strategist in the Learning Center. Student must have teacher's recommendation to register in this program and have a mark below 60% in their FLA courses. This program is a non-diploma course and also leads to the completion of the student's CBE Certificate of Achievement in French Immersion.

***A recommendation from previous FLA teacher is needed to register in the FLA-2 program**

FRENCH as a SECOND LANGUAGE (FSL= French)

French as a Second Language (FSL-10-20-30 also called French-10-20-30)

Those courses are not designed for French Immersion students coming from Junior High.

All students taking FSL-10 will be tested in class at the beginning of the semester in order to know the right placement.

Given that language learning is a gradual, developmental process, it is important to provide students with an opportunity to develop and solidify, in stages, the basic core language elements needed in order to communicate effectively. To ensure this language development, *the units meld together four components: communication, language, culture and language learning strategies, and the four language skills: listening, reading comprehension, oral and written production.* This provides students with an interesting and enriching means of learning languages at all levels. The activities in the units engage students in communication opportunities that eventually move to real-life tasks. These tasks involve students in authentic French interaction.

French as a Second Language 10-3y & 10-9y

(5 credits)

Prerequisite: No previous experience in a French class is necessary.

The intent of this beginning French course is to develop the following skills:

Understandings and attitudes in students.

As a desire and interest to learn French for personal benefit and as a life-long learning about people and culture.

An awareness that the French language is used in other parts of the province, country and world as a medium for learning and communication consequently respecting cultural linguistic diversity

An awareness of the skills and strategies required for intercultural communication

An awareness that through technology. Students can access many different Francophone cultures.

A growing ability to direct one's own learning by reflecting on one's progress and autonomously selecting appropriate learning strategy.

An expansion of students' knowledge and awareness of experiences and perceptions of other people beyond their immediate experience.

All Grade 10 students start in FSL 10 with previous or no previous FSL experience. The themes that develop all goals of studies are: Salut! Ça va?, Qu'est-ce que tu aimes faire?, Au café, A l'école, En famille, Tu viens d'où?

All students taking FSL-10 will be tested in class at the beginning of the semester in order to know the right placement.

French as a Second Language 20-3y & 20-9y: Study Themes for FSL-20-3y & 20-9y are:

On fait les magasins, On fait les courses, A la maison, La santé, En vacances, A Paris

French as a Second Language 30-3y & 30-9y: Study Themes for FSL-30-3y & 30-9y are:

Les fêtes, Paris, En France, La vie quotidienne, Sports et loisirs et les pays du Maghreb.

We are continuing with programs goals and the method C'est a toi! 2. The goal of the program is the progressive development of effective oral and written comprehension and communication skills. Learning is achieved in a collaborative, supportive, positive environment where **every student's participation is fundamental to the process.** A variety of sources will be used in the classroom including literature, textbooks, audio-visual materials and online technologies.

Please see the link to view information about FSL 10-20-30

http://schools.cbe.ab.ca/b829/aberhart/departments/languages/french_second_language.pdf

SPANISH LANGUAGE AND CULTURE (SLC)

SPANISH 10-3y (5 credits) NOT FOR SPANISH BILINGUAL STUDENTS

In this introductory course, students will learn basic vocabulary and expressions. Using this knowledge they will be able to participate in conversations and to write fundamental paragraphs. Some areas of study include: personal interests, family and friends, sports, food and travel. Most conversations will be in the present and future tenses. Some information will be given using Spanish as the language of instruction. There is an on-line component to the course which gives students many ways of practicing.

SPANISH 20-3y (5 credits) NOT FOR SPANISH BILINGUAL STUDENTS

Students will improve their writing and speaking skills and will advance their comprehension of written and spoken Spanish. Other themes will be studied. The past tense will be introduced. Students will also develop a better understanding of Hispanic cultures. More lessons will be taught using Spanish. There is an on-line component to the course which gives students many ways of practicing.

SPANISH 30-3y (5 credits) NOT FOR SPANISH BILINGUAL STUDENTS

Students will improve their proficiency in Spanish by using the target language to communicate factual information, to explore opinions and to express ideas. They will speak with clear pronunciation and intonation in rehearsed and spontaneous situations, select appropriate words and phrases and communicate with reasonable grammatical accuracy. They will learn advanced verb forms (conditional, subjunctive) and complex sentence structures. There will be a focus on development of cultural awareness. Spanish 30 students will have the opportunity to take the de Espanol como Lengua Extranjera (DELE) exam for International Recognition of Language Proficiency.

SPANISH LANGUAGE ARTS

SPANISH LANGUAGE ARTS 10

SPANISH LANGUAGE ARTS 20

SPANISH LANGUAGE ARTS 30

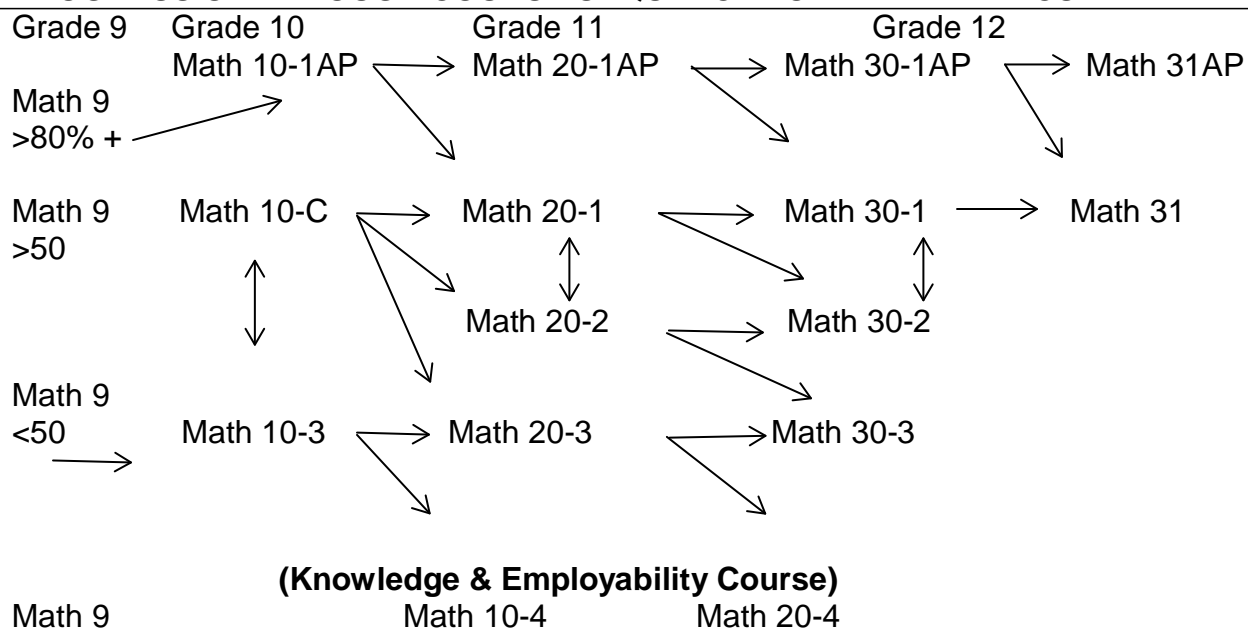
(5 credits each)

For Spanish Bilingual Students or Students whose First Language Is Spanish

Spanish Language Arts is an integral part of the Spanish programming. The course focus will be on the development of effective oral and written comprehension and production. The student should gradually feel at ease in a variety of communication situations. To accomplish these goals the course will incorporate literary and non-literary sources, written texts, audio-visuals and technology materials. The use of vocabulary, verb tenses, orthography, syntax and style will be studied within the context of various forms of communication. The course has been designed with the potential of high academic achievement and enriched cultural experiences that maximize student opportunities for learning. SLA 30 students have the opportunity to take Spanish AP and/or the de Espanol como Lengua Extranjera (DELE) exam for an International Recognition of Language Proficiency

MATHEMATICS

PROGRESSION THROUGH COURSE SEQUENCE FOR MATHEMATICS



Courses in Mathematics are offered with instruction in English, French (F) and Spanish(S) where enrolment warrants.

Note: Five credits at the 20 level are required to obtain an Alberta High School Diploma. Students may fulfill this requirement with 20-1, 20-2, or 20-3. Pre-requisites must be met before taking a course (see diagram).

To register for Mathematics 10C, a student must have passed Mathematics 9. For a student who did not earn 50% in Math 9, the course options are Math 10-3 or Math 10-4. Mathematics 10C is [the starting point for the -1 and -2 course sequences \(see diagram above\)](#).

“-1” Course Sequence (Pre-Calculus)

This course sequence 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.

“-2” Course Sequence (Fundamentals of Mathematics)

This course sequence 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.

“-3” Course Sequence (Workplace and Apprenticeship)

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades or directly into the work force.

“-4” Course Sequence (Knowledge and Employability).

This course sequence is designed to develop basic mathematical knowledge and skills necessary for everyday life and work situations.

Advanced Placement Courses

The Advanced Placement Program in Mathematics is designed for motivated students who wish to pursue mathematics at a level that will take them beyond high school. The regular Math 10C, 20-1, 30-1 and 31 topics are covered on an accelerated basis and then enriched to increase the students' depth of understanding.

Both Mathematics 30-1 and Mathematics 30-2 are diploma examination courses.

Please see diagram above for typical and possible progressions in the event that the student's post-secondary goals change.

MATHEMATICS 10C MATHEMATICS 10CAP, MATHEMATICS 10CF, MATHEMATICS 10CFAP, MATHEMATICS 10CS (5 credits)

This course consists of three main topics:

1. **Measurement:** linear measurement, surface area and volume, proportional reasoning, primary trigonometric ratios
2. **Algebra and Number:** prime factors and applications, irrational numbers, real numbers, rational exponents, polynomials, factoring
3. **Relations and Functions:** relations and functions, linear relations, function notation, systems of linear equations, coordinate geometry, equation of a line, slope

Note: The Math 10CAP course is designed for motivated students who wish to pursue mathematics at a level that will take them beyond high school. A minimum mark of 80% in Grade 9 Math is required along with the teacher's recommendation

MATHEMATICS 10-3 (5 credits)

This course consists of four main topics.

1. **Measurement:** linear measurement, area and volume, mass, capacity and temperature, 2-D shapes and 3-D objects (regular, composite and irregular shapes)
2. **Geometry:** spatial reasoning, Pythagorean theorem, similarity of polygons, primary trigonometric ratios, parallel lines and transversal, properties of angles
3. **Number:** unit pricing, currency exchange, proportional reasoning, earning an income
4. **Algebra:** manipulating and applying formulas

Note: Arithmetic operations on integers, fractions and decimals are embedded within the topics in this course.

MATHEMATICS 10-4 Knowledge & Employability Course (5 credits) This course consists of 5 main topics.

1. **Number Concepts and Operations:** estimation strategies, rounding, fractions (improper, equivalent, mixed numbers), conversions among fractions, decimals and percents
2. **Patterns and Relations:** prediction and creating rules to describe patterns, variables and formulas for solving problems in practical contexts, variables in expression and graphs
3. **Measurement:** metric and imperial measuring devices, conversions, length, area, perimeter, mass and volume, angles, circle, temperature, time
4. **Shape and Space:** enlargement, reduction, scale models, geometric properties, ordered pairs in all four quadrants in a grid
5. **Statistics and Probability:** data collection, comparison, interpretation

MATHEMATICS 20-1

MATHEMATICS 20-1AP

MATHEMATICS 20-1F

MATHEMATICS 20-1FAP (5 credits)

Note for Math 20-1:

A minimum mark of 65% is recommended in Math 10C to register in Math 20-1 (or the wording you were able to come up with).

***Ideally, we would prefer 70%, but I talked to a couple teachers in my department and they believe we should leave the recommendation at 65%. I also checked marks from 4 different 30-1 classes and they are some students with a mark between 65-70% in 10C who were able to pass 20-1.

This course consists of three main topics.

1. **Algebra and Number:** absolute value, radicals, radical equations, rational expressions, equations
2. **Trigonometry:** angles in standard position, sine and cosine laws (including ambiguous case)
3. **Relations and Functions:** graphs of absolute value functions, quadratic functions and equations, systems of equations, reciprocal functions, factoring polynomials, inequalities, arithmetic and geometric sequences and series

It is strongly recommended that the student has completed Math 20-1/20-1F prior to enrolling in Physics 20

Note: The Math 20-1AP or Math 20-1FAP course is designed for motivated students who wish to pursue mathematics at a level that will take them beyond high school. A minimum mark of 80% in Math 10CAP (or 80% in Math 10C or Math 10CH) is required along with the teacher' recommendation.

MATHEMATICS 20-2

MATHEMATICS 20-2F (5 credits)

This course consists of six main topics.

1. **Measurement:** rates, proportional reasoning, scale factors and scale diagrams
2. **Geometry:** deductive proofs, properties of angles and triangles, sine and cosine laws (excluding ambiguous case)
3. **Number and Logic:** inductive and deductive reasoning, spatial reasoning, radical equations
4. **Statistics:** normal distribution, confidence intervals
5. **Relations and Functions:** quadratic functions, quadratic equations\
6. **Research Project**

MATHEMATICS 20-3 (5 credits)

This course consists of 5 main topics.

1. **Measurement:** surface area and volume (SI and imperial units)
2. **Geometry:** problem involving two or three right triangles, scale, views of 3-D objects. Scale diagrams of 3-D objects.
3. **Number:** numerical reasoning, consumer problems (budgets, financial services, credits), simple and compound interest.
4. **Algebra:** manipulating and applying formulas, slope, proportional reasoning
5. **Statistics:** create and interpret graphs

MATHEMATICS 20-4 Knowledge & Employability Course (5 credits)

This course consists of five main topics.

1. **Number:** operations with integers, fractions, mixed numbers, decimals, interest rates, payments, budgets, rates, ratios, and spreadsheets
2. **Patterns and Relations:** generalization of patterns, arithmetic expressions, variables in equations and their relationships
3. **Measurement:** length, area, volume, perimeter, angles, time, temperature, conversion among metric and imperial systems
4. **Shape and Space:** scale diagrams, enlargement and reduction, maps
5. **Statistics and Probability:** collection of data, interpretations, predictions, inferences, conclusions

MATHEMATICS 30-1

MATHEMATICS 30-1AP

MATHEMATICS 30-1F

MATHEMATICS 30-1FAP

Note for Math 30-1:

A minimum mark of 65% is recommended in Math 20-1 to register in Math 30-1 (or the wording you were able to come up with).

This course consists of three main topics.

1. **Trigonometry:** angles in standard position, radian measure, unit circle, trigonometric equations, trigonometric identities, trigonometric functions
2. **Relations and Functions:** operations and compositions of functions, translations, stretches, reflections of graphs, inversion of a relation, polynomial, rational and radical functions, exponential and logarithmic equations, exponential and logarithmic functions
3. **Permutations, Combinations and Binomial Theorem**

Note: The Math 30-1AP course is designed for motivated students who wish to pursue mathematics at a level that will take them beyond high school. A minimum mark of 80% in Math 20-1AP or 20-1FAP (or Math 20-1H or Math 20-1) is required along with the teacher's recommendation.

MATHEMATICS 30-2,

MATHEMATICS 30-2F (5 credits)

This course consists of four main topics.

1. **Logical Reasoning:** numerical and logical reasoning, set theory
2. **Probability:** odds and probability, probability of two events, probability of mutually Exclusive and non-mutually exclusive events, fundamental counting principle, permutations and combinations
3. **Relations and Functions:** rational expressions and equations, polynomial functions, Sinusoidal functions, logarithms, laws of logarithms, exponential equations
4. Mathematics Research Project

Note: Finance will be embedded in various topics as appropriate

MATHEMATICS 30-3 (5 credits)

This course consists of six main topics.

1. **Measurement:** precision, accuracy and tolerance of measuring instruments
2. **Geometry:** sine and cosine laws (excluding ambiguous case), properties of triangles, quadrilaterals and regular polygons, transformations on 2-D shapes and 3-D objects
3. **Number:** logical reasoning, consumer problems (buying vs. leasing), applications to business (expenses, sales, profit or loss)
4. **Algebra:** linear relations, patterns, graphs, equations, tables
5. **Statistics:** measure of central tendency, percentiles
6. **Probability:** analyze problems that involve probability (warranties, insurance, lotteries, weather predictions)

MATHEMATICS 31

MATHEMATICS 31F (5 credits)

The course is the introductory study of differential and integral calculus. It is intended for students who will pursue more education in mathematics, the natural sciences, or engineering at university, or who will enter highly mathematics-intensive programs at technical schools or colleges. To be successful in Math 31, the student must be highly motivated, have excellent work habits and have a very strong math background.

Mathematics 30-1 maybe is a co-requisite for Mathematics 31, It is strongly recommended that a student complete Math 30-1 prior to entering Mathematics 31.

A minimum mark of 65% in Math 30-1 or 30-1F is recommended

MATH 31 AP (Advanced Placement) Admission criteria applies-see page 9

This course includes all topics from Math 31 plus 17 additional topics from Calculus AP. There is more emphasis on problem solving than in the regular Math 31 program. The course is intended to be challenging and demanding. Students are expected to write the AP exam in May. Successful completion of the Calculus AP exam may lead to advanced credit at the university level.

A minimum mark of 80% in Math 30-1 AP or 30-1FAP is required along with the teacher's recommendation.

MATH 31 AP (Advanced Placement) Admission criteria applies-see page 9

Students who wish a further challenge will enrol in AP and write the AP exam in May in addition to completing regular Math 31 work.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 10 (3-5 credits) – Course Code #1445 NOTE: PHYSICAL EDUCATION 30 IS A FULLY ACCREDITED COURSE FOR SOME UNIVERSITY FACULTY ENTRANCE REQUIREMENTS

Physical Education 10 is compulsory for all Alberta high school students. This is a participation course and students are expected to have appropriate clothing for active involvement. A fee is charged for off-site activities and transportation. Course activities include many classic PE activities including - bowling, swimming, yoga, and skating. Evaluation is based on active participation, attitude, effort, written work and skills.

WHY TAKE PE 20 AND 30?

- Exercise is proven in studies to improve academic performance.
- Use your grade to apply for your Rutherford Scholarship.
- Use as an entrance mark for some faculties and universities.
- Can be used to maintain an honours status throughout your high school career.
- To have fun and to have a social break in your day.
- Find wellness and balance in your school schedule.
- Opportunity to try new off campus activities.

PHYSICAL EDUCATION 20 (3-5 credits)

Physical Education 20 is an option course for all high school students who have successfully completed Physical Education 10. Extensive travel to off-site activities is required in this course and attendance is mandatory. A fee is charged for off-site activities and transportation. Off-site activities include canoeing/kayaking, golfing, wall climbing, squash/racquetball, curling, bowling and self-defence. Students are also required to give 5 hours of service in any of the three areas of Physical Education: core program, intramurals, or athletics.

PHYSICAL EDUCATION 30 (5 credits)

Physical Education 30 is an option course for all high school students who have successfully completed Physical Education 20. Extensive travel to off-site activities is required in this course and attendance is mandatory. Class times are altered to meet travel times, requiring students to leave early in the morning, over the lunch hour or returning to the school after the final bell. A fee is charged for off-site activities and transportation. Off-site activities may include camping, canoeing/kayaking, sailing, scuba diving, golfing, wall climbing, squash/racquetball, curling, bowling and self-defence. Students are also required to give 5 hours of service in any of the three areas of Physical Education: core program, intramurals, or athletics.

NOTE: PHYSICAL EDUCATION 30 MAY BE USED AS A POST SECONDARY ENTRANCE COURSE AT SOME INSTITUTION.

SCIENCES

Grade 9	Grade 10	Grade 11	Grade 12
Science 9 >50%	Science 10	Biology 20 AP* Biology 20 Science 20 Physics 20 Chemistry 20	Biology 30/35 AP* Biology 30 Science 30 Physics 30 Chemistry 30/35 AP* Chemistry 30
Science 9 <50%	Science 14	Science 24	
* Admission criteria apply. See page 9 Knowledge & Employability Course (K&E) Science 10-4 Science 20-4			

The senior high science programs will help all students attain the scientific awareness needed to function as effective members of society. Students will be able to pursue further studies and careers in science, and come to a better understanding of themselves and the world around them. The choice of program in Science should be based on achievement in Grade 9 science and mathematics courses.

SCIENCE 14 (5 credits)

This is a general science course designed for the student who has struggled with junior high school science and mathematics. The course includes such topics as properties of matter, human health, technology, and the environment. This course is designed to build science skills and show the applications of science to everyday life. There is an emphasis on laboratory activities and projects. Students in Science 14 who achieve an 80% or above may consider taking Science 10 with teacher recommendation.

Science 14 consists of four units of study:

- Investigating Properties of Matter
- Understanding Energy Transfer Technologies
- Investigating Matter and Energy in Living Systems
- Investigating Matter and Energy in the Environment

SCIENCE 24 (5 credits)

Prerequisite: Science 14

This course builds on the knowledge and skills learned in Science 14. Such topics as chemical reactions, energy consumption, car safety, and biotechnology will be considered. This course is practical and lab oriented. Attention is given to the impact of science and technology on society. Completion of Science 24 is accepted for diploma graduation but not for Post-Secondary programs.

Science 24 consists of four units of study:

- Applications of Matter and Chemical Change
- Understanding Common Energy Conversion Systems
- Disease, Defence and Human Health
- Motion, Change and Transportation Safety

SCIENCE 10-4 (K&E) (5 credits)

Students explore the digestive and circulatory systems of the human body. They investigate common chemicals used at home and in the workplace, and how to safely handle them. Students discover how force and heat energy are transferred in technologies they use in their daily lives, and they ask questions about how human activities affect the natural world. Students who have experienced challenges or difficulty with their skills will be provided with additional strategies for success in the Knowledge and employability -4 course sequences.

SCIENCE 20-4 (K&E) (5 credits)

Students gain an understanding of the application of science skills and knowledge for success at home, at work and in the community. They investigate and classify simple chemical reactions; learn about energy conversions and conservation; and examine how social, environmental and genetic factors affect human health. They also apply their knowledge of moving objects and conservation of momentum to transportation safety. Students who have experienced challenges or difficulty with their skills will be provided with additional strategies for success in the Knowledge and Employability -4 course sequence.

Students in Grade 10 are required by Alberta Education to complete Science 10 before taking Biology, Chemistry, or Physics at the 20 and 30 levels. The level of difficulty increases with higher numbered science courses.

Students should carefully determine which science course(s) are needed for entrance to various post-secondary programs.

A grade 10 student may be enrolled in 20 level courses in the second semester, however because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered

- The Student has displayed high academic ability, achievement and motivation in Science 10.
- Student has a strong recommendation from their Science 10 teacher.

A grade 11 student may be enrolled in 30 level courses in the second semester, however because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered

- The Student has displayed high academic ability, achievement and motivation in a 20 level Science course.
- Student has a strong recommendation from their 20 level science teacher.

SCIENCE 10 (5 credits)

Science 10 provides first year senior high school studies in Biology, Chemistry, Physics and climate change. The major themes of Science 10 are the interactions of matter and energy as reflected in the diversity, equilibrium and change of various systems. Students with strong marks in Science 10 may qualify for the Biology 20/30 AP course,

Science 10 consists of four units of study;

- A. Energy and Matter in Chemical Change
- B. Energy Flow in Technological Systems
- C. Cycling of Matter in Living Systems
- D. Energy Flow in Global Systems

SCIENCE 20 (5 credits)**Prerequisite: Science 10**

It is recommended for the student who achieved less than 60% in Science 10. Science 20 is a single course replacement for second year senior high school students in Biology, Chemistry, and Physics. Please see the school website for the list of postsecondary institutions and their programs that accept Science 30.

Science 20 consists of four units of study:

- A. Chemical Changes
- B. Changes in Motion
- C. The Changing Earth
- D. Changes in Living Systems

SCIENCE 30 (5 credits)

A grade 11 student may be enrolled in Science 30 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Science 20
- The student has a strong recommendation from their Science 20 teacher.

A grade 12 student who has passed any 20 level Science courses (Science 20 Chemistry 20 Biology 20 and Physics 20) may be enrolled in Science 30. Science 30 is designed for students who want to enhance their understanding of the scientific principles behind the natural events of their world and the technology that they use in their daily lives. Science 30 is an inquiry-based course requiring creativity and imagination. The course is designed to provide students with the scientific literacy required to function in a technological society and to prepare them for post-secondary studies. Please see the school website for the list of postsecondary institutions and their programs that accept Science 30. Science 30 has a final diploma exam at the end of the course.

Science 30 consists of four units of study:

- A. Living Systems Respond to their Environment
- B. Chemistry and the Environment
- C. Electromagnetic Energy
- D. Energy and the Environment

PHYSICS 20 (5 credits)

A grade 10 student may be enrolled in Physics 20 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Science
- The student has a strong recommendation from their Science 10 teacher and Math 10-C teacher
- It is recommended that a grade 11 student who registers for Physics 20 should have Math 20-1 or 20-2 as either a prerequisite or co-requisite.

The course includes the study of linear motion (kinematics) emphasizing vector quantities. This work leads to the study of forces (dynamics) including uniform circular motion and universal gravitation. The course includes the study of simple harmonic motion, energy, and concludes with the study of one and two dimensional waves.

Physics 20 consists of four units of study:

- A. Kinematics
- B. Dynamics
- C. Circular Motion, Work and Energy
- D. Oscillatory Motion and Mechanical Waves

PHYSICS 30 (5 credits)

A grade 11 student may be enrolled in Physics 30 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Physics 20
- The student has a strong recommendation from their Physics 20 teacher.

The course begins with the study of conservation laws including conservation of momentum and energy. The course then shifts to the study of electric fields/forces and then magnetic fields/forces and onto electromagnetic waves. Finally the course moves on to cover modern physics topics including the quantum nature of light, models of the atom and finally radioactivity. A suggested prerequisite or co-requisite is Math 30-1 or 30-2. Students are required to write the Physics 30 diploma exam.

Physics 30 consists of four units of study:

- A. Momentum and Impulse
- B. Forces and Fields
- C. Electromagnetic Radiation
- D. Atomic Physics

CHEMISTRY 20 (5 credits)

A grade 10 student may be enrolled in Chemistry 20 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Science 10
- The student has a strong recommendation from their Science 10 teacher.

This course deals with core topics such as bonding, solutions, gas laws and stoichiometry. Students are required to do lab work that supports the theoretical side of this course.

Chemistry 20 consists of four units of study:

- A. The Diversity of Matter and Chemical Bonding
- B. Forms of Matter: Gases
- C. Matter as Solutions, Acids and Bases
- D. Quantitative Relationships in Chemical Changes

CHEMISTRY 30 (5 credits)

A grade 11 student may be enrolled in Chemistry 30 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Chemistry 20
- The student has a strong recommendation from their Chemistry 20 teacher.

This course is more theoretical in nature than Chemistry 20, and enables students to be aware of chemistry in their lives and environment. Core topics include energy of reactions, chemical equilibrium, acid-base reactions, and oxidation-reduction reactions and organic chemistry. Students are required to do extensive lab work that supports the theoretical side of the course. Chemistry 30 is prerequisite for most science courses at post-secondary institutions. Students are required to write the Chemistry 30 diploma exam.

Chemistry 30 consists of four units of study:

- A. Thermochemical Changes
- B. Electrochemical Changes
- C. Chemical Changes of Organic Compounds
- D. Chemical Equilibrium Focusing on Acid-Base Systems

CHEMISTRY 30/35 ADVANCED PLACEMENT – (8 credits) (Fall and Winter Semester)

Prerequisite: Recommended 70% minimum in Chemistry 20 and Math 20 Pure Chemistry 30 (5 credits Chemistry 35 (3 credits)

This course is a sheltered and accelerated Chemistry 30 and advanced placement class for a student who really enjoys chemistry and/or has demonstrated a high proficiency in Chemistry 20. This course will cover the entire Chemistry 30 curriculum as well as some advanced placement topics in the fall semester. Advanced placement topics include Solubility Equilibrium, Free Energy and Entropy as well as further topics in Acid and Base Chemistry and Electrochemistry. A diploma exam from Alberta Education will be written during the January Exam session. The half semester Chemistry 35 course begins in January and ends in May after the AP exam. This course supplements the Alberta Chemistry 20/30 curriculum with topics from a first year university level inorganic chemistry course. This course requires students to build upon their knowledge of topics from Chemistry 20 and 30 for a deeper understanding of chemical processes and the structure of matter. Students will write an international exam in mid-May. Should they receive a score of 4 or 5, out of 5 they will be eligible to receive university credit at most universities in Canada and the USA. Students with heavy pre-existing extracurricular or academic loads are NOT recommended to take Chemistry AP.

BIOLOGY 20 (5 credits)

A grade 10 student may be enrolled in Biology 20 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Science 10
- The student has a strong recommendation from their Science 10 teacher.

Biology 20 is a rigorous academic course designed for students with an interest in science in general and biology.

Biology 20 consists of four units of study:

- A. Energy and Matter Exchange in the Biosphere
- B. Ecosystems and Population Change
- C. Photosynthesis and Cellular Respiration
- D. Human Systems

BIOLOGY 30 (5 credits)

A grade 11 student may be enrolled in Biology 30 in the second semester. However, because of limited space and the greater academic demands of the course, the student must meet the following requirements before being considered:

- The student has displayed high academic ability, achievement and motivation in Biology 20
- The student has a strong recommendation from their Biology 20 teacher.

This course expands on some of the concepts from Biology 20 as well as introducing new concepts in human physiology. Systems that regulate change in humans will be a major unit. Reproduction, cell division and inheritance of traits will be studied in depth. Concepts introduced in ecology will be expanded focusing on population genetics. Students are required to write the Biology 30 diploma exam.

Biology 30 consists of four units of study:

- A. Nervous and Endocrine Systems
- B. Reproduction and Development
- C. Cell Division, Genetics and Molecular Biology
- D. Population and Community Dynamics

BIOLOGY 20 ADVANCED PLACEMENT (5 credits)

BIOLOGY 30/35 ADVANCED PLACEMENT – (8 credits) (Fall and Winter Semester)

Prerequisite: Academically strong, self-motivated students See page 8

The Biology Advanced Placement student will spend 3 semesters in Biology AP. During that time, they will cover the Biology grade 11 and 12 curricula as well as the curriculum for Biology Advanced Placement. They will begin in grade 11 with Bio 20 AP in semester 2 and continue with Bio 30/35 AP in semesters 1 and 2 in grade 12. These students will write their Biology diploma in January of the grade 12 year. They will write their Biology AP Exam at the end of grade 12 in early to mid-May.

This keen group of students will experience an enriched Biology program. Laboratory and field experiences will be expanded. A University textbook and speakers will round out the course. Students who score a 4 or a 5 on their Biology AP exam may receive university level credit for this accomplishment. The specific regulations vary from university to university and the appropriate registration guide needs to be consulted.

SOCIAL STUDIES

Grade 9	Grade 10	Grade 11	Grade 12
>50%	SOCIAL STUDIES 10-1	SOCIAL STUDIES 20-1	SOCIAL STUDIES 30-1
< 50%	SOCIAL STUDIES 10-2	SOCIAL STUDIES 20-2	SOCIAL STUDIES 30-2
<p align="center">Knowledge and Employability Courses</p> <p align="center">SOCIAL STUDIES 10-4 ———> SOCIAL STUDIES 20-4</p>			

Courses in Social Studies are offered with instruction in English and French (F) where enrolment warrants.

SOCIAL STUDIES 10-1 (5 credits)

SOCIAL STUDIES 10-1F (5 credits)

“Perspectives on Globalization”

Students will explore multiple perspectives on the origins of globalization and the local, national and international impacts of globalization. Students will examine the relationships among globalization, citizenship and identity to enhance skills for citizenship in a globalizing world. The infusion of multiple perspectives will allow students to examine the effects of globalization on peoples in Canada and throughout the world, including the impact on Aboriginal and Francophone communities.

SOCIAL STUDIES 10-2 (5 credits)

“Living in a Globalizing World”

Students will explore historical aspects of globalization as well as the effects of globalization on lands, cultures, human rights and quality of life. Students will explore the relationships among globalization, citizenship and identity. The infusion of multiple perspectives will allow students to examine the effects of globalization on peoples in Canada and other locations, including the impact on Aboriginal and Francophone communities.

SOCIAL STUDIES 20-1 (5 credits)

SOCIAL STUDIES 20-1F (5 credits)

“Perspectives on Nationalism”

Students will explore the complexities of nationalism in Canadian and international contexts. Students will study the origins and impacts of nationalism and the influence of nationalism on regional, international and global relations. The infusion of a multiple perspectives approach will allow students to develop understandings of nationalism and of how nationalism contributes to the citizenship and identities of people in Canada. Students will develop personal and civic responses to emergent issues related to nationalism.

SOCIAL STUDIES 20-2 (5 credits)

SOCIAL STUDIES 20-2F (5 credits)

“Nationalism in Canada and the World”

Students will examine various forms of nationalism on historical and contemporary events. Students will explore the impacts of nationalism and efforts to promote internationalism. Examples will be drawn from the study of the French Revolution, the world wars, Aboriginal experiences, Quebecois nationalism, Canadian nationalism, international institutions and current events.

SOCIAL STUDIES 30-1 (5 credits)
SOCIAL STUDIES 30-1F (5 credits)
“PERSPECTIVES ON IDEOLOGY”

Students will explore the origins and complexities of ideologies and examine 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.

SOCIAL STUDIES 30-2 (5 credits)
SOCIAL STUDIES 30-2F (5 credits)
“UNDERSTANDINGS OF IDEOLOGIES”

Students will examine the origins, values and components of competing ideologies. They will explore multiple perspectives regarding relationship among individualism, liberalism, common good and collectivism. An examination of various political and economic systems will allow students to determine the viability of the values of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues.

SOCIAL STUDIES 10-4 (K&E) (5 credits)

What is globalization and how does it affect me? Students will look at the history of globalization and understand various viewpoints on the effects that globalization has on individuals, local communities and the world as a whole. Students who have experienced challenges or difficulty with their skills will be provided with additional strategies for success in the Knowledge and Employability -4 course sequence.

SOCIAL STUDIES 20-4 (K&E) (5 credits)

What is nationalism and how does it affect us? Students explore the development of nationalism as well as its effects, considering various perspectives on the idea of nation in Canada. They develop an understanding of the impact of nationalism on individuals, international relations and citizenship. Students for success in the Knowledge and Employability -4 course sequence.

POLITICAL SCIENCE 30 ADVANCED PLACEMENT (6 credits) Admission criteria applies.

See page 8

Students will earn credits in both International Politics 30 (3 credits) and World Geography 30 (3 credits). These two courses provide the base for the Advanced Placement examination. This course covers an introduction to comparative politics, the sources of public authority and political power, society and politics, citizen and state, political framework and political change. Five countries form the core of this examination: Great Britain, China, Russia (The former Soviet Union), Mexico, and Nigeria. The class will take place in the second semester. It is highly recommended but not mandatory that Social 30-1 be completed before taking this class.

ADDITIONAL COMPLEMENTARY COURSES

PSYCHOLOGY 20

GENERAL PSYCHOLOGY 20 (3 credits)

Psychology is the scientific study of behaviour and thought processes of human beings and other animals. This course begins with an in-depth introduction and history of the discipline of psychology. Other units of study include Theories and Principles of Learning and Abnormal Behaviour.

PERSONAL PSYCHOLOGY 20 (3 credits)

Personal Psychology focuses on individual differences. The course begins with a brief introduction to the discipline of psychology. Major units of study include Theories and Measurement of Personality, Theories and Measurement of Intelligence and the Process of Human Development.

YOGA 15 (3 credits)

This course will safely introduce students, to the basic postures (asanas), breathing techniques and relaxation methods of yoga. It will also introduce students to the historical roots of yoga and give them an understanding of basic anatomy and physiology as it applies to this discipline. Students will develop an enhanced appreciation for, and acceptance of, their own body and its limitations. Students will learn to be non-judgemental about their own, and others', yoga practices. The program is designed to allow students to experience the benefits of increased flexibility, strength, focus and concentration. They will relieve stress, learn to relax at will, and experience the health benefits of yoga. Students must provide their own yoga mat.

YOGA 25 (3 credits) Prerequisite: Yoga 15

Students will deepen their study of yoga. More advanced postures (asanas) and breathing techniques will be practiced. Students will learn about the families of yoga asanas and how to sequence them in a practice. They will design a personalized home practice. Through continued practice the many benefits of yoga (see YOGA 15) will continue to be experienced. Students must provide their own yoga mat.

YOGA 35 (3 credits) Prerequisite: Yoga 25

Students will continue to advance their study and practice of yoga through refinement of basic asanas and breathing techniques, and the introduction of those with more challenge. Styles of yoga will be further investigated, as will yoga philosophy. Students will have a chance to study the biomechanics and kinesiology of asanas in more depth. The many benefits of yoga (see YOGA 15) will continue to be experienced. Students must provide their own yoga mat.

English Program and Options

Course are subject to change without notice

Grade 10 Courses		Grade 11 Courses		Grade 12 Courses	
English 10-1	1105	English 20-1	2105	English 30-1	3105
English 10-2	1104	English 20-2	2104	English 30-2	3104
		English 20-1 AP	2106	English 30-1 AP	3106
Social Studies 10-1	1771	Social Studies 20-1	2771	Social Studies 30-1	3771
Social Studies 10-2	1772			Social Studies 30-2	3772
Science 10	1270	Science 20	2270	Science 30	3270
		Biology 20	2231	Biology 30	3230
		Chemistry 20	2796	Chemistry 30	3796
		Physics 20	2797	Physics 30	3797
Science 14	1288	Science 24	2288		
Math 10-C	1791	Math 20-1	2791	Math 30-1	3791
		Math 20-2	2792	Math 30-2	3792
Math 10-3	1793	Math 20-3	2793	Math 30-3	3793
				Math 31	3786
Adv Acting/Tour 15	1416	Adv Acting/Tour 25	2416	Adv Acting/Tour 35	3416
Art 10	1400	Art 20	2400	Art 30	3400
Auto Tech Intro	1813	Auto Tech Stream A	2813	Auto Tech Adv	
		Auto Tech Stream B	2814		
Band/ No Choir	1439	Band 25	2439	Band 35	3439
Band/Choir	0000	Choral Music 20 (3-5)	2420	Choral Music 30	3420
Choir/ No Band	1414	Choir 25	2414	Choir 35	3414
		ELA/Instrumental Music 20	2425	Instrumental Music 30	3425
Comp Science I/I/A	1817	Comp Science Inter		Comp Science Adv	
		CALM 20	2442		
		CALM 20 Online	2443		
Dance 15	1413	Dance 25	2413	Dance 35	3413
Design St I/I/A	1810	Design St Inter		Design St. Adv	
Drama 10	1410	Drama 20	2410	Drama 30	3410
Fashion Studies. I/I/A	1805	Fashion Studies Inter		Fashion Studies. Adv	
Film Studies 15	1107	Film Studies 25	2107		
Financial Management I/I/A	1815	Financial Management Inter		Financial Management Adv	
Food Studies. I/I/A	1804	Food Studies. Inter		Food Studies Adv	
FSL 10-3y	1307	FSL 20-3Y	2093	FSL 30-3y	3093
FSL 10-9y		FSL 20-9y		FSL 30-9y	
Information Processing I/I/A	1816	Information Processing Inter		Information Processing Adv	
				Legal Studies Adv	3776
Multimedia I/I/A	1803	Multimedia Inter		Multi Media Adv	
Phy Ed 10	1445	Phy Ed 20	2245	Phy Ed 30	3445
		Per Psych 20 (3)	2171		
		Gen Psych 20 (3)	2172	Work Exp (3-5)	3998
Sculpting 15	1402	Sculpting 25	2402	Sculpting 35	3402
SLC 10-3Y	1345	SLC 20-3Y	2345	SLC 30-3y	3345
Small Business I/I/A	1818	Small Business Inter		Small Business Adv	
Sports Med Intro	1447	Sports Med Inter	2447	Sports Med Adv	3447
Sports Per Intro	1446	Sports Per Inter	2446	Sports Per 35	3446
Wood Working I/I/A Intro	1812	Wood Working Inter		Wood Working Adv	
Yoga 15	1449	Yoga 25	2449	Yoga 35	3449

Advanced Placement Courses AP

Grade 10 Courses		Grade 11 Courses		Grade 12 Courses	
ENGLISH AP COURSE					
		English 20-1 AP	2106	English 30-1 AP	3106
Social Studies AP COURSE					
				Political Sci 30AP	3775
SCIENCE AP COURSE					
		Biology 20/30AP (10)		Biology 35AP (3)	
		Chemistry 20 AP		Chemistry 30 AP (5)	
		Physics 20 AP		Chemistry 35 AP (3)	3795
				Physics 30 AP	
MATH AP COURSE					
Math 10-C AP		Math 20-1 AP		Math 30-1 AP	
				Math 31 AP	
French Language		French AP (sem 2)		French AP (sem 2)	
Spanish Language		Spanish AP (sem 1)		Spanish AP (sem 2)	

French Immersion

FLA 10-1	1304	FLA 20-1	2304	FLA 30-1	3304
	1314	FLA 20-2	2305	FLA 30-2	3304
Social Studies 10-1 (F)	1770	Social Studies 20-1F	2770	Social Studies 30-1F	3770
		Social Studies 20-2F	2773	Social Studies 30-2F	3774
Math 10-CF	1789	Math 20-1F	2799	Math 30-1F	3789
		Math 20-2F	2794	Math 30-2F	3794
Math 10-CFAP		Math 20-1FAP		Math 30-1FAP	
				Math 31 F	3785

Spanish Bilingual

SLA 10	1507	SLA 20	2507	SLA 30	3507
Math 10-CS	1796				
Sculpting 15 (s)	1403	Sculpting 25 (s)	2403		
Art 10 S	1404	Art 20S	2401		

Knowledge and Employability (K&E)

Knowledge and Employability course provide students who meet the criteria with opportunities to experience success and become well prepared for employment, further studies, citizenship and lifelong learning. Please see counsellor for programming

Grade 10 Courses		Grade 11 Courses		Grade 12 Courses	
English 10-4		English 20-4		English 30-4	
Social Studies 10-4		Social Studies 20-4		Social Studies 30-4	
Science 10-4		Science 20-4			
Math 10-4		Math 20-4			
Art/Design & Comm Into	1570	Art/Design & Comm Inter	2570	Art/Design & Comm Adv	3570
Auto Tech Intro	1572	Auto Tech Inter	2572	Auto Tech Adv	3572
Foods Into		Foods Inter		Foods Adv	
Fashion Into		Fashion Iner		Fashion Adv	
		Wood Working	2577	Wood Working	3577

Career & Technology Center 2014–2015

Introduction

The Career and Technology Centre (CTC) provides continuous access to academic, industry-standard programs, certificated journeyman instructors, facilities and equipment for students seeking industry-standard credentials in high demand, highly skilled occupations. In journeyman trades, students can simultaneously earn credits in Career and Technology Studies (CTS) while completing equivalent Alberta Industry and Training (AIT) courses for their journeyman technical training. Many other specializations are offered and described in the course overview section below.

Students may choose courses at *explore*, *specialize* or *credential* levels.

- *Explore level* programs are for student seeking an introduction to an occupational field they may be interested in as a career.
- *Specialized level* programs are for students seeking local certificates or detailed study of a particular occupational field in which they have previously explored.
- *Credential level* programs are for students wishing to complete the technical training of a journeyman trade.

The Centre's programs are organized by the following *Career Clusters*:

Trades, Manufacturing & Transportation

- **Auto Body** | Auto Body Apprentice and Pre-Apprentice
- **Fabrication** | Welder Apprentice and Pre-Apprentice
- **Pre-Engineering**
- **Supply Chain Management** | Logistics

Health, Recreation & Human Services

- **Cosmetology** | Hairstylist Apprentice and Pre-Apprentice
- **Culinary Arts** | Cook Apprentice and Pre-Apprentice
- **Health Sciences** | First Responder

Natural Resources

- **Environmental Stewardship**
- **Oil and Gas Exploration**

Business, Administration, Finance, Information & Technology

- **Enterprise and Innovation**

Media, Design & Communication Arts

- **Communication Technology** | Broadcasting
- **Design Studies**

CTS opportunities at other Senior High Schools in Area II

(Ask your guidance counsellor for full details)

(Crescent Heights, James Fowler, Queen Elizabeth, William Aberhart, John G Diefenbaker)

Crescent Heights Senior High School

Trades, Manufacturing & Transportation (TMT)

Auto Service Apprenticeship (ASA 3400) (10 credits)

This program is intended for students who are sure they wish to pursue a career in the Automotive industry. This is an intensive 10 credit course which, when passed, will allow the student to forgo the 1st 8 week trade introduction course at SAIT, or other accredited trade school. Attendance, punctuality and a serious work ethic are essential for success in this course. To qualify, students must have demonstrated excellence in their grade 11 program and school based approval.

James Fowler Senior High School

Trades, Manufacturing & Transportation (TMT)

Mechanics I Auto Body (13 credits)

Students practice and develop skills required to identify and demonstrate knowledge and competency for damage repair, restoration and enhancement of the exterior finishes of a vehicle. Students develop skills related to sheet metal forming/finishing, paint preparation, paint spray techniques, automotive knowledge, windshield/glass repair, tool usage and knowledge as it relates to the transportation industry.

Introductory (Exploratory Courses - 3 credits available)

Intermediate(Specialized Courses - 5 credits available)

Advanced(Specialized Courses - 5 credits available)

Queen Elizabeth Senior High School

Media, Design & Communication Arts (MDC)

Communication Technology (12 credits)

New Media Arts is the label that industry and post-secondary institutions give to the group of courses Alberta Education calls "Communication Technology." The aim of this program of study is to create an understanding of the art and technology behind photography, video, animation, computer graphics, web design and other media. This understanding will enable students to become more discerning consumers of media: consumers who can differentiate between the message and the delivery. Students will develop media skills that will enrich their personal and academic lives. In addition students will learn about career options within the media industry and how to effectively prepare for post-secondary study in this field.

Multimedia (Exploratory 6 credits , Specialized 6 credits)

Digital Photography (Exploratory 6 credits , Specialized 6 credits)

Animation & Web (Exploratory 6 credits, Specialized 6 credits)

Design Studies (11 credits)

These courses are ideal for students interested in exploring careers in pre-engineering, interior design, architecture industrial design and other fields of design. Students should be good problem solvers, creative, attentive to details and be well organized. Students who take Design 10, 20 and 30 will acquire basic skills in sketching, computer assisted design and solve complex design problems.

Exploratory 5 credits, Specialized 6 credits

William Aberhart Senior High School **Construction (TMT)**

Intermediate Woodworking (5 Credits)

Intermediate Woodworking is for the student wanting to enhance the planning, design and construction skills that they learned in the introductory level. Students go beyond building from a plan to modify existing plans for constructing one-of-a-kind creations. A wider array of power tools, machining techniques and wood properties are used to enhance the look and complexity of the students' projects. Students learn to use multiple materials (wood, glass, plastics), box construction, frame-and-panel construction, enhanced finishing techniques; and a project of their choice, such as a skateboard. Additional fees may be required for some optional projects.

Intermediate(Specialized Courses - 5 credits available)

Advanced Woodworking (5 Credits)

Advanced Woodworking is designed to further enhance student planning, designing and construction skills. Students learn proper techniques of tool maintenance, leg-and-rail construction, veneering process, and two minor or one major project of their choice. Possible project ideas include an electric guitar, a snowboard, or a pair of alpine skis. Students completing the advanced class will have entry level skills in the woodworking industry, as well as excellent transferable hands-on-skills that are useful for a multitude of other careers. Additional fees may be required for some optional projects.

Advanced(Specialized Courses - 5 credits available)

John G Diefenbaker Senior High School **Health, Recreation &** **Human Services (HRH)** **Legal Studies 30 (5 Credits)**

This course is designed for the investigative, interested learner and will be supplemented by videos, guest speakers and other types of audio-visual presentations. Students may have an opportunity to take part in debating, courtroom observations, mock trials as well as project development. As well, students will investigate Criminal Justice careers through field trips to the Calgary Young Offenders Centre, interviews / discussions with Police Officers, Corrections Officers, Payroll Officers, Social Workers, Forensic Team Members and others, to explore the possible avenues of careers within and surrounding Criminal Law.

Specialized 5 credits