Contents

Alberta High School Requirements .............................................................................................................................. 4

  Why Finish High School .................................................................................................................................................. 4
  Diplomas and Certificates .............................................................................................................................................. 4
  Alberta High School Diploma ......................................................................................................................................... 4
  Knowledge and Employability Courses .......................................................................................................................... 6
  Alberta Certificate of High School Achievement (K&E) .................................................................................................. 6
  Alberta Certificate of High School Completion (ISC) ...................................................................................................... 7

Grade 9 Courses .................................................................................................................................................................. 8

  Grade 9 Required Courses ............................................................................................................................................... 8
  Grade 9 Elective Courses ............................................................................................................................................... 9

Gr. 9 Course Request Form ............................................................................................................................................. 12

Grade 10-12 Core Courses ............................................................................................................................................. 13

  English ................................................................................................................................................................................. 13
  Mathematics ....................................................................................................................................................................... 15
  Sciences ............................................................................................................................................................................ 18
  Social Studies ................................................................................................................................................................. 20
  Career and Life Management ......................................................................................................................................... 21
  Physical Education ........................................................................................................................................................... 21

International Baccalaureate .............................................................................................................................................. 22

Grade 10-12 Elective Course........................................................................................................................................... 26

  Automotive Studies ........................................................................................................................................................... 26
  Automotive Apprenticeship ............................................................................................................................................ 27
  Business Education ........................................................................................................................................................ 28
  Computer Studies ............................................................................................................................................................. 29
  Construction ..................................................................................................................................................................... 30
  Cosmetology ................................................................................................................................................................... 32
  Cosmetology Apprenticeship .......................................................................................................................................... 33
  Culinary Arts .................................................................................................................................................................... 34
  Fabrication Studies (Welding) ............................................................................................................................................ 35
  Art .................................................................................................................................................................................... 36
  Drama ............................................................................................................................................................................... 36
  Film and Media Art ......................................................................................................................................................... 37
  French ............................................................................................................................................................................... 38
  Music ............................................................................................................................................................................... 39
  Visual Communications .................................................................................................................................................... 40
  Fitness ............................................................................................................................................................................... 41
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership</td>
<td>41</td>
</tr>
<tr>
<td>Outdoor Education</td>
<td>42</td>
</tr>
<tr>
<td>Science Electives</td>
<td>42</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>43</td>
</tr>
<tr>
<td>Sample 4yr Graduation Plans</td>
<td>44</td>
</tr>
<tr>
<td>Gr. 10 Course Request Form</td>
<td>53</td>
</tr>
<tr>
<td>Gr. 11 Course Request Form</td>
<td>54</td>
</tr>
<tr>
<td>Gr. 12 Course Request Form</td>
<td>55</td>
</tr>
<tr>
<td>Gr. 10-12 K&amp;E Course Request Form</td>
<td>56</td>
</tr>
<tr>
<td>Gr. 9 ISC Registration</td>
<td>57</td>
</tr>
<tr>
<td>Gr. 10-12 ISC Course Request Form</td>
<td>58</td>
</tr>
</tbody>
</table>
Alberta High School Requirements

Why Finish High School

Finishing high school is the first step to helping you secure a positive future in post-secondary education or in the workforce. For most jobs in Alberta, you need a minimum of a high school diploma or a high school equivalency diploma. To be accepted into many post-secondary programs, you need specific high school or high school equivalent courses.

Diplomas and Certificates

Alberta Education diplomas and certificates certify that the holder has successfully completed a prescribed program of instruction.

A student who is awarded a diploma or certificate from this list is a graduate:

- Alberta High School Diploma
- Certificate of High School Achievement
- Certificate of School Completion

Having a diploma or certificate does not necessarily guarantee admission to a post-secondary institution. Students should make an appointment for their graduation meeting in Student Services to discuss post-secondary institution options and admission requirements.

Alberta High School Diploma

The requirements indicated in this chart are the minimum requirements for a student to attain an Alberta High School Diploma. The requirements for entry into post-secondary institutions and workplaces may require additional and/or specific courses.

<table>
<thead>
<tr>
<th>100 CREDITS including the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ English 30-1 or 30-2; and</td>
</tr>
<tr>
<td>▪ Social Studies 30-1 or 30-2; and</td>
</tr>
<tr>
<td>▪ Mathematics 20-1 or 20-2 or 20-3; and</td>
</tr>
<tr>
<td>▪ Science 20 or 24 or Biology 20 or Chemistry 20 or Physics 20*; and</td>
</tr>
<tr>
<td>▪ Physical Education 10 or Physical Education 10T; and</td>
</tr>
<tr>
<td>▪ Career and Life Management (CALM 20);</td>
</tr>
</tbody>
</table>

AND Earn 10 credits, in any combination from:

- Career and Technology Studies (CTS)
- Fine Arts
- Languages
- Physical Education 20 and/or Physical Education 30
- Registered Apprenticeship Program (RAP)
- Knowledge and Employability courses; and

Earn 10 credits in any 30-level course (in addition to English and Social Studies), in any combination, from:

- 30 level Mathematics, Science, Fine Arts, Second Languages, CTS, or Physical Education and/or
- 30 level locally developed course (learn more about these course options through your High School) and/or
- 35 level Work Experience and/or
- 35 level Registered Apprenticeship Program (RAP) and/or
- 30-4 level Knowledge & Employability courses
- Provincial exams are required in English 30-1 and 30-2, Social Studies 30-1 and 30-2, Mathematics 30-1 and 30-2, Biology 30, Chemistry 30, Physics 30 and Science 30. Final marks in these courses represent a blend of the school-awarded mark (70%) and the diploma examination mark (30%).
- The science requirement may also be met with the 10-credit combination of Science 14 and Science 10.
- Students may earn any number of credits in the study of second languages, but only a maximum of 25 language credits may be used to meet the 100-credit requirement for the Alberta High School Diploma.
- Integrated Occupational Program (IOP) occupational courses may be used in place of Knowledge and Employability occupational courses to fulfill this requirement.
- 30-level English language arts or 30-level social studies courses from a different course sequence may not be used to meet the 30-level course requirement.
- Students may earn a maximum of 30 credits in Work Experience, but only 15 credits may be used to meet the 100-credit requirement for the Alberta High School Diploma.

Information provided and more available at: education.alberta.ca
Knowledge and Employability Courses

Students taking K&E courses may qualify for a Certificate of High School Achievement or they may continue their studies to qualify for an Alberta High School Diploma. To qualify for a Certificate of High School Achievement, students must successfully complete a minimum of one academic K&E course. Knowledge and Employability (K&E) courses are intended for students who have experienced difficulty with learning and have been recommended by teachers as well as parents for these course selections. Students who take any knowledge and employability course will be on a pathway to earn their Alberta Certificate of High School Achievement.

Alberta Certificate of High School Achievement (K&E)

The requirements indicated in this chart are the minimum requirements for a student to attain a Certificate of High School Achievement. The requirements for entry into post-secondary institutions and workplaces may require additional and/or specific courses.

80 Credits including the following:
- English Language Arts 20-2 or 30-4
- Mathematics 10-3 or 20-4
- Science 14 or 20-4
- Social Studies 10-2 or 20-4
- Physical Education 10 (3 credits)
- Career and Life Management (CALM)

5 Credits in
- 30-level Knowledge and Employability occupational course, or
- 30-level Career Technology Studies (CTS) course, or
- 30-level locally developed/acquired and authorized 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
- Special Projects 30

OR

5 Credits in
- 30-level Registered Apprenticeship Program (RAP) course

To qualify for a Certificate of High School Achievement, students must successfully complete a minimum of one academic Knowledge and Employability course. Knowledge and Employability courses are identified by “-4” in the course name, ex English 10-4.
Alberta Certificate of High School Completion (ISC)

Students with a significant cognitive disability can achieve the Certificate of School Completion if they are unable to achieve an Alberta High School Diploma or a Certificate of High School Achievement (Knowledge and Employability).

ISC (Innovative Support Centre) addresses the individual learning needs of students with various abilities from those requiring a community based self-contained program to those requiring a partial or fully modified educational program of studies. Students in ISC will have the opportunity to participate in Commencement Ceremonies and receive a Certificate of School Completion at the end of their 12 years. No credits will be awarded.
**Grade 9 Courses**

**Grade 9 Required Courses**

**English 9**

English Language Arts is required for all Grade 9 students. This course runs for the entire school year. English 9 is built around five General Outcomes (Exploration, Responses to Texts, Information Management, Craft and Communication, and Community) and six strands (Reading, Writing, Listening, Speaking, Viewing, and Representing). Students will work to improve their oral and written communications, critical thinking, and appreciation of literature in its many forms (prose, drama, poetry, and media). Student performance in this class plays a large role in determining the range of English courses available in Grade 10. There will be a two part Provincial Achievement Test (PAT) in this course, taking place in May and June.

**Math 9**

Math 9 is a required course for all grade 9 students and consists of the following topics:

- Number – Rational Numbers, Powers, Exponents, and Square Roots
- Patterns and Relations – Linear Relations, Linear Equations, Linear Inequalities, Polynomials
- Shape and Space – Similar Polygons, Measurement, Symmetry, Circle Geometry
- Statistics and Probability – Data Collection and Analysis, Probability

*Note: Students must successfully complete Math 9 (50% or greater) before they can register in Math 10C*

**Physical Education 9**

The aim of the Physical Education program is to enable individuals to develop the knowledge, skills, and attitudes necessary to lead an active, healthy lifestyle. The Physical Education program emphasizes active living with a focus on physical activity that is valued and integrated into daily life. Active living through Physical Education:

- Creates a desire to participate.
- Focuses on lifetime activities promoting health-related fitness for life.
- Is about physical activity and the nature, form, frequency, and intensity of the activity are relative to each person's abilities, needs, aspirations, and environment.

- Places physical activity within a broader perspective of total fitness and well-being that encompasses the entire experience of movement – physical, mental, emotional, and social dimensions.
- Is enhanced through opportunities to participate in such activities as intramural and interschool athletics and community-based sport and recreation activities.
- Is centered around learner needs; inclusive, individual, and varied.
- Is supported when opportunities for making choices are provided.
- Is supportive of the relevance of physical activity within the community.

Physical Education is a participation based course that, therefore, requires daily effort and proper active wear and indoor shoes in order to be successful.

**Science 9**

Science 9 is a required course for all grade 9 students. Topics covered are Biological Diversity, Matter and Chemical Change, Environmental Chemistry, Electrical Principles and Technologies and Space Exploration.

**Social Studies 9**

**Canada: Origins, Histories and movement of Peoples**

Grade 9 focuses on citizenship, identity and quality of life and how they are impacted by political and legislative processes in Canada. The role of economic systems in Canada and the United States will also be examined.

Key course understandings:

- Students will demonstrate an understanding and appreciation of how Canada’s political processes impact citizenship and identity in an attempt to meet the needs of all Canadians.
- Students will demonstrate an understanding and appreciation of how economic decision making in Canada and the United States impacts quality of life, citizenship and identity.

**For Grade 9 students:** If you’ve achieved greater than 60% it’s advised to enroll in the 10-1, 20-1, and 30-1 stream. Students achieving less than 60% are advised to enroll in the 10-2, 20-2, 30-2 stream.
Grade 9 Elective Courses

Art 9
Course Fee: $20.00
Art 9 provides a brief survey and introduction to the fundamentals of art. Students will explore and create projects based on the key fundamentals. They will have the opportunity to use a variety of media including various drawing media, paint as well as clay. Assessment will focus on technical skills and originality.

Basic Automotive 9
Course Fee: $20.00
During this course students will learn to have an appreciation and understanding of small engines and their operation. Students will discover mechanics as a possible future career. The course will begin with general shop safety, tool identification, tool use and basic measurement. Students will learn to identify the parts to a 2 & 4 stroke engine by the dis-assembly and re-assembly process. Students will learn to work individually and co-operatively in small groups. Time providing students may have the chance to work on bicycle repair, tire service, and drilling and tapping metal. Safety is taught at every level of all CTF (Career and Technology Foundations) courses and is the foundation of our programs.

Computers 9
Course Fee: None
Students will transition through three Computer Science Fundamentals course progressions. The aim is to demystify computer science and show students that it’s fun, collaborative and creative. The course is designed to motivate students to continue learning computer science to improve real world relationships, connections and life. Students will learn about computer science, problem solving, computational thinking, and programming. It will teach that success does not always come on the first try. Challenge is good when it is supported by plans and tools that lead to success.

Construction and Design Technology 9
Course Fee: $20.00
Here you will have the opportunity to learn how to operate both hand tools and power tools, safely. During this course you will work on a wide variety of projects ranging from a small tool box to an actual longboard that you can ride. Construction 9 will allow you to investigate and gain knowledge, skills, and attitudes associated with the construction trades. The course will also help to build self-reliance and independence and encourage creativity while helping you develop knowledge and skills useful across a wide range of career and leisure pursuits. The objectives of our Construction Technology program are:
1. Developing safe work practices
2. Developing time management skills
3. Developing hand and power tool operation skills
4. Developing effective teamwork skills
5. Developing problem solving skills

Cosmetology 9
Course Fee: $20.00
This course is created to give you an introduction to a variety of different aspects offered in cosmetology. Students will be learning long hair design and styling, learning about skin types and self-facials, makeup and eyebrow shaping, as well as manicures. This is a hands on and partner based class, you will be required to be a stylist and a client often. This course is not a prerequisite for any of the cosmetology courses taken at the high school level, this is strictly used as exploration and interest for students.

Choir - Choral Music 9
Course Fee: None
*A background in singing is not needed in order to join this class.
This is a course that explores choral singing from a wide variety of cultures and time periods, including both classical and popular. The core curriculum emphasizes performing and healthy vocal technique. It is a fun, high-energy way to learn about music. The choral music program seeks to develop musical competency and strives for excellence within the limits of the student’s capabilities. The concepts of rhythm, melody, harmony, form and expression provide the intellectual framework of the music program. Concepts are essentially taught through student participation in the skill areas of singing, playing, listening, reading (and writing) and creating.

Digital Design 9
Course Fee: $20.00
Digital Design 9 is your opportunity to get experience working with a variety of different digital media. You will create works of art using Adobe Photoshop, Google Draw and Adobe Animate. Some of the projects you will be working on are designing a chocolate bar wrapper, creating computer game characters, and animating vector based projects.
Drama 9
Course Fee: None
Drama 9 is an introductory theatre course that aims to foster a positive self-concept in students by encouraging them to explore life through the assumption of roles and the acquisition of dramatic skills. Successful drama students will gain self confidence in situations where they present themselves publicly (job interviews and employment, class presentations, coaching, etc.). They will also grow through developing cooperative relationships with their peers. Students will participate in a variety of activities involving movement, speech, improvisation, acting and collective creation. Elements of theatre study such as terms, craft and history will also be investigated

Environmental and Outdoor Education 9
Course Fee: $20.00
This activity-based course provides opportunities for in-depth practical studies and experiences. This direct approach should appeal to all students, particularly those who learn best from physical involvement. Some of things that students should expect to learn would include, how to: use knives, build fires and emergency shelters, cook over a fire as well as learning about some current environmental topics. Students who sign up for EOE 9 should enjoy being active and be prepared to go outside in all types of weather. Day trips throughout the course provide great learning experiences, as well as providing an opportunity to showcase many of the skills that students have learned throughout the course.

Film Studies 9
Course Fee: None
Film Studies 9 can be considered a part of the Language Arts curriculum, particularly meshing with visual language objectives. The course also studies written language -through creative writing in film scripts and personal reflection and analysis. The verbal component of film involves listening for meaning, discussion and critical expression. Viewing and discussing films will be the main activities in the course.

Total Body Fitness 9
Course Fee: $20.00
Fitness provides students opportunities to further develop their physical fitness and provides an advantage to those who want to participate in competitive sports. Course work includes cardiovascular training, muscle fitness, flexibility training, fitness testing, fitness theory, and nutrition. A course fee is applied to this class. This is an activity-based course and requires daily participation and proper active wear in order to be successful.

Foods 9
Course Fee: $20.00
After an orientation to proper kitchen procedure, students are led through a series of lessons and challenges related to baking, cooking, food presentation, and food science. Students finish the course with an opportunity to examine their own food-related interest by designing their own challenge. Want to see if you can make soda pop that tastes like chocolate milk? You can do that! Want to refine your cupcake decorating skills? You can do that! Want to investigate the best way to reheat pizza so the crust stays crispy while the cheese gets gooey? You can do that! You also can train and try out for a position in the Skills Alberta Junior Culinary competition that takes place in Edmonton in May.

French 9 9Y
Prerequisite: French 8 9Y
Course Fee: None
This French course will build upon concepts learned throughout your previous junior high level courses but will aim to prepare you for the high school level French whilst introducing new and exciting learning opportunities.

Guitar 9
Course Fee: None
This course will allow students to develop their skills and knowledge as guitarists, songwriters and music enthusiast. Using different media, this course provides students an understanding of the elements and structures of music as they apply to performance on the guitar.

Band 9
Course Fee: None
The band is made up of windwood, brass and percussion instruments. The band rehearses a wide range of music styles from classical to modern compositions including pop, marches and transcriptions. Students who enroll in band usually have previous experience playing a band instrument but exceptions can be made by contacting the instructor to find out how they might fit into the ensemble. The Senior High School Instrumental Music Program is designed as a sequential and developmental approach to music instruction. Each level grows from those experiences previously presented.
Orchestra 9
Course Fee: None
The String orchestra prepares students for a lifetime of musical appreciation and performance. Technical skills are built through repertoire ranging from early baroque to current compositions. Opportunity is given for full orchestra experiences. It is expected that students registering in the orchestra will have previous experience playing a string instrument (violin, viola, cello, or bass); however, students wishing to register without previous playing experience should contact the instructor to find out how they might fit into the ensemble.

Leadership 9
Course Fee: None
This course provides a formal structure for our students who are interested in the development of school activities designed to enhance our school community. Students are encouraged to enroll in this course if they desire to help lead activities, organize special events, play a role in our community providing service to others, and generally coming to a better understanding of leadership in the 21st century. Students who take this course will build and expand their leadership portfolio by documenting and reflecting on their community work, volunteer house, speaking, mentoring, organizational, and conflict management abilities.

Robotics 9
Course Fee: $20.00
Students will use the LEGO® MINDSTORMS® NXT robotics kits to building multi sensor robots, conduct research in human-computer interaction, artificial intelligence, and software programming tools. With LEGO® MINDSTORMS®, students will gain experience with techniques used in the real world of science, engineering and design. They will design, build and program fully functional models. Student’s will be challenged at each level in creativity, planning, system and sub-system design, analysis, problem solving, troubleshooting, teamwork, critical thinking and hands-on practical application of theoretical knowledge with “real world examples.” Students will also have opportunity to pursue specialized robotics topics through project courses as time permits.
Gr. 9 Course Request Form
(Current Gr. 8 Student)

Student Name: ______________________________________________________ (first and last name)

Current School: (Please Circle One) Crystal Park IV Macklin Roy Bickell Riverstone GP Christian

Other: (Name of School) __________________________

<table>
<thead>
<tr>
<th>Grade 9 Required Courses</th>
<th>Social Studies 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts 9</td>
<td></td>
</tr>
<tr>
<td>Mathematics 9</td>
<td></td>
</tr>
<tr>
<td>Physical Education 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade 9 Elective Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Please select 4 (four) Electives that you would like to take next year.</td>
<td></td>
</tr>
<tr>
<td>Note: Semester courses count as two</td>
<td></td>
</tr>
</tbody>
</table>

- Art 9
- Band 9 (Semester)
- Basic Automotive 9
- Choir 9 (Semester)
- Computers 9
- Construction 9
- Cosmetology 9
- Digital Design 9
- Drama 9
- Film Studies 9
- Foods 9
- French 9 (Semester)
- Guitar 9 (Semester)
- Leadership 9
- Orchestra 9 (Semester)
- Outdoor Pursuits 9
- Robotics 9
- Total Body Fitness 9

<table>
<thead>
<tr>
<th>Alternative Electives:</th>
</tr>
</thead>
</table>

Please select 2 (two) alternative electives that you would take.

1. ____________________________________________
2. ____________________________________________

Planning Checklist:

✓ I have read the course descriptions (located in our course guide or online at http://www.gppsd.ab.ca/school/gpcomposite
✓ I have talked to my teachers and my parents about my choices. If I still have questions, I will speak to Student Services.
✓ I understand there are associated costs for each elective which I have reviewed in the course guide.

✓ I understand the Composite High School creates their timetable based on my selections and should I change my mind about my selections, there is no guarantee there will be a spot available for me in a different elective option.
✓ I will not be attending the Grande Prairie Composite High School next year, I will be attending: ____________________________.

__________________________________________
Parent/Guardian Signature

__________________________________________
Student Signature

__________________________________________
Date
**Grade 10-12 Core Courses**

**English**

<table>
<thead>
<tr>
<th>Last Year’s English Course</th>
<th>Last Year’s Mark</th>
<th>Next Year’s English Course Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Typical Progression**

**Possible Progression**

<table>
<thead>
<tr>
<th><strong>English -1 Stream</strong></th>
<th><strong>English -2 Stream</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>This route is intended for students who want the option of attending university after high school. There is a greater emphasis on analytical writing, challenging texts, and assignments that require considerable time and effort.</td>
</tr>
<tr>
<td></td>
<td>This route focuses on the practical aspects of English Language Arts. There is a greater emphasis on high-interest texts, personal and practical writing, and in-class completion of assignments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>English 10-1</strong> (5 credits) Prerequisite: English 9 (recommended 60%)</th>
<th><strong>English 10-2</strong> (5 credits) Prerequisite: English 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reading</strong></td>
<td><strong>Reading</strong></td>
</tr>
<tr>
<td>Students will explore a variety of literary genres, including Shakespearean drama.</td>
<td>Students will read a variety of fiction and non-fiction texts, including at least one novel.</td>
</tr>
<tr>
<td><strong>Writing</strong></td>
<td><strong>Writing</strong></td>
</tr>
<tr>
<td>Students will learn to write analytically and personally, in addition to writing a number of other written and oral texts.</td>
<td>Students will focus on the practical application of English Language Arts, including personal, exploratory, and persuasive writing.</td>
</tr>
<tr>
<td>English 20-1 (5 credits)</td>
<td>English 20-2 (5 credits)</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Prerequisite: English 10-1 (recommended 60%)</td>
<td>Prerequisite: English 10-2</td>
</tr>
</tbody>
</table>

**Reading**
- Students will study texts from a variety of genres, including literary fiction, Shakespearean drama, and poetry. Students will be expected to demonstrate their understanding of literary terms and techniques.
- Students will read a variety of practical or high-interest texts, including a novel and a play. Students will understand context and identify literary terms and techniques.

**Writing**
- Students will be expected to write several personal and analytical essays, narrative responses, and a script.
- Students will be expected to write several personal and persuasive responses, narrative responses, and a script.

<table>
<thead>
<tr>
<th>English 30-1 (5 credits)</th>
<th>English 30-2 (5 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite: English 20-1 (recommended 60%)</td>
<td>Prerequisite: English 20-2</td>
</tr>
</tbody>
</table>

**Reading**
- Students will analyze challenging texts from a variety of genres, demonstrating their understanding of literary techniques.
- Students will explore a variety of texts that they can connect to their own experience and context.

**Writing**
- Students will hone their ability to craft the analytical essay, as well as further developing their personal and creative writing skills.
- Students will respond to texts personally, analytically, and persuasively, demonstrating their understanding of a variety of types of writing.

- In addition to reading and writing, all English courses will study and demonstrate their understanding of the other Language Arts strands of Listening, Speaking, Viewing, and Representing.
- All English -1 and -2 courses culminate in a final exam with an equally weighted reading comprehension multiple choice exam and a written response exam.
The main goals of mathematics education are to prepare students to:
- use mathematics confidently to solve problems
- communicate and reason mathematically
- appreciate and value mathematics
- make connections between mathematics and its applications
- commit themselves to lifelong learning
- become mathematically literate adults, using mathematics to contribute to society.

Students who have met these goals will:
- gain understanding and appreciation of the contributions of mathematics as a science, philosophy and art
- exhibit a positive attitude toward mathematics
- engage and persevere in mathematical tasks and projects
- contribute to mathematical discussions
- take risks in performing mathematical tasks
- exhibit curiosity.

Mathematics “10, 20, 30-1” Course Sequence
- if I want to study mathematics or sciences at a university, college, or technical institute and go on to a related career.

Mathematics “10, 20, 30-2” Course Sequence
- is for students who plan to enter post-secondary programs such as engineering, mathematics, sciences, some business studies, or other programs that require advanced math skills. The sequence is a co-requisite for mathematics 31 and may be required for post-secondary calculus courses.
- includes topics such as permutations and combinations, relations and functions, sequences and series, and trigonometry.

Mathematics “10, 20, 30-2” Course Selection
- Last Year’s Math Course | Last Year’s Mark | Next Year’s Math Course Selection
- Math 9 |  | Competencies in Math 15
- Math 10C |  | Math 20-1
- Math 10-3 |  | Math 20-2
- Math 10-3 |  | Math 20-3
- Math 20-1 |  | Math 30-1
- Math 20-2 |  | Math 30-2
- Math 20-3 |  | Math 30-3
- Math 30-1 |  | Math 31
- Math 30-2 |  |  
- Math 30-3 |  |  

Typical Progression

Possible Progression

Mathematics “10, 20, 30-1” Course Sequence
- if I want to attend a university or college, or technical institute after high school, but do not need calculus skills.
- is for students wishing to study at the post-secondary level in diverse fields, including arts programs, civil engineering technology, medical technologies, and some apprenticeship programs. This path will fulfill most students’ needs.
- is designed with a great deal of flexibility, so that the student can switch sequences in Grade 11 or Grade 12 if his or her interests change.
- includes topics such as relations, functions and equations, probability, statistics, and trigonometry.
Mathematics “10, 20, 30-3” Course Sequence

- if I am interested in learning the mathematics needed to enter most trades or if I want to enter the workforce after high school.
- is for students who want to apprentice to a trade or enter the workforce directly after high school. It is designed to meet the entrance requirements of apprentices in most trades programs, specifically levels one to three.
- includes topics such as finance, geometry, measurement, and trigonometry.

Math 10C (5 credits)
Prerequisite: 50% or higher in Math 9 or Competencies in Math 15
This combined course is the starting point for both the “-1” and the “-2” course sequences. Topics of study include:
- Measurement – Measurement Systems, Surface Area and Volume, Right Triangle Trigonometry
- Algebra and Number – Exponents and Radicals, Polynomials
- Relations and Functions – Linear Relations and Functions, Linear Equations and Graphs
- Systems of Equations – Solving Linear Systems Graphically and Algebraically

Competencies in Math 15 (5 credits)
Recommended Prerequisite: 40-60% in Math 9
The Competencies in Math course is designed as a bridge between Math 9 and Math 10C. It covers the essential outcomes from Math 9 as well as some other important skills that will improve a student’s chance of being successful in Math 10C. Topics that will be covered include: Number Skills, Operations with Exponents, Solving Equations (Algebraically), Trigonometry, Measurement, Relations and Functions, and Polynomials. It is designed for the student that received a mark between 40% and 49% in Math 9 who wishes to eventually take Math 10C. This course would also be beneficial for students that received a mark between 50% and 60% in Math 9 but don’t feel they have a strong enough background to be successful in Math 10C.

Math 10-3 (5 credits)
Recommended Prerequisite: less than 50% in Math 9
- Geometry – Lines, Angles, Pythagorean Theorem, Polygons, and Trigonometry
- Number – Unit Pricing, Currency Exchange, and Income
- Algebra - Manipulation and application of various formulae
- Measurement – Metric and Imperial Systems and solving problems using these systems

Math 20-1 (5 credits)
Prerequisite: Math 10C (recommended 70%)
Math 20-1 consists of the following topics of study:
- Patterns – Sequences and Series, Trigonometry
- Quadratic Functions, Quadratics Equations
- Systems of Equations, Linear and Quadratic Inequalities
- Functions and Equations – Radical Expressions and Equations, Rational Expressions and Equations, Absolute Value and Reciprocal Functions

Math 20-2 (5 credits)
Prerequisite: Math 10C
Math 20-2 consists of the following topics:
- Measurement – Proportional Reasoning, Rates, Scale Diagrams
- Geometry – Properties of Angles in Triangles, Acute Triangle Trigonometry
- Number and Logic – Inductive and Deductive Reasoning, Radicals, Puzzles and Games
- Statistics – Statistical Reasoning
- Relations and Functions – Quadratic Functions, Quadratic Equations
- Research Project

Math 20-3 (5 credits)
Prerequisite: Math 10-3 or 40% in Math 10C or 50% in Competencies in math 15
- Measurement – Solve problems that involve SI and imperial units in surface area and volume measurements
- Geometry – Scales and Scale Diagrams, Problems Involving Two and Three Right Triangles
- Number – Puzzles and Games, Personal Budgets, Managing Finances, Credit Cards
- Algebra - Manipulation and Application of Various Formulae, Slope, Proportional Reasoning
- Statistics – Create and Interpret Various Graphs – bar graphs, histograms, line graphs, circle graphs

Math 30-1 (5 credits)
Prerequisite: Math 20-1 (recommended 70%)
Math 30-1 consists of the following topics:
- Transformations and Functions – Function Transformations, Radical Functions, Polynomial Functions
• Trigonometry – Trigonometry and the Unit Circle, Trigonometric Functions and Graphs, Trigonometric Identities
• Exponential and Logarithmic Functions – Exponential Functions and Equations, Logarithmic Functions and Equations
• Equations and Functions – Rational Functions, Functions Operations, Permutations and Combinations, The Binomial Theorem

Math 30-2 (5 credits)
Prerequisite: Math 20-2 (recommended 60%)
• Logical Reasoning and Probability – Set Theory, Permutations and Combinations, Probability
• Relations and Functions – Rational Expressions and Equations, Polynomial Functions, Exponential and Logarithmic Functions, Sinusoidal Functions
• Research Project

Math 30-3 (5 credits)
Prerequisite: Math 20-3 or 40% in Math 20-2
Math 30-3 consists of the following topics:
• Measurement – Solve problems that involve limitations of measuring instruments, including precision, accuracy, uncertainty and tolerance
• Geometry – Sine Law and Cosine Law, Transformations on 2-D and 3-D objects including translations, rotations, reflections, and dilations

• Number – Puzzles and Games, Buying a vehicle, Viability of small business
• Algebra – Solving problems involving linear relations
• Statistics and Probability – Measures of Central Tendency, Percentiles, Probability

Math 31 (5 credits)
Prerequisite: Math 31 is generally taken after Math 30-1, however they can be taken concurrently.
The objectives of Math 31 (Calculus) are:
• To develop an understanding of the algebra of functions and transformations, together with their graphs, and to apply these understandings in different areas of mathematics.
• To develop a fluency in algebraic computations involving rational expressions, inequalities, absolute values and trigonometric functions.
• To achieve an understanding of the principal concepts and methods of differential and integral calculus.
• To develop skills in problem solving and reasoning, using calculus concepts.
• To understand the connections and interplay among various mathematical concepts and between mathematics and other disciplines.
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.

Science 10 (5 credits)
Recommended Prerequisite: 60% or higher in Science 9
Science 10 is a prerequisite for Science 20, Physics 20, Chemistry 20 and Biology 20. Science 10 consists of four units of study: Chemistry, Physics, Biology and Climate Change.

Science 10A (10 credits)
Recommended Prerequisite: 40-60% in Science 9.
Full year, 10 credit course. Upon successful completion (minimum 50%) students will obtain all 10 science credits needed for high school graduation requirements, with 5 credits in both Science 14 and Science 10. A 60% or higher will allow them to continue on to any 20 level science course, if they choose to do so. This course targets students who had a science 9 average of 40-60%. Science 10A allows students to explore real world science interests and to prepare for further education and careers in science. Science 10A allows students an extended learning timeline and provides a hands on learning environment which provides students with a less rigorous format than science 10.
Science 14 (5 credits)
Prerequisites: This course targets students who had a science 9 mark lower than 50%. Science 14 is recommended for students who will not be pursuing secondary education or trades. The course consists of four units: Chemistry, Physics, Biology and Ecology.

Biology 20 (5 credits)
Prerequisite: Science 10 (recommended 60% in Biology Unit)
Biology 20 consists of the following units of study: Ecology, Population Change, Photosynthesis, Cellular Respiration and 5 Human Body Systems.

Chemistry 20 (5 credits)
Prerequisites: Science 10 (recommended 60% in Chemistry Unit)
Chemistry 20 consists of four units of study: The Diversity of Matter and Chemical Bonding, Forms of Matter: Gases, Matter as Solutions, Acids and Bases and Quantitative Relationships in Chemical Changes.

Physics 20 (5 credits)
Prerequisites: Science 10 (recommended 60% in Physics Unit)
Physics 20 consists of four units of study: Kinematics, Dynamics, Circular Motion, Work and Energy and Oscillatory Motion and Mechanical Waves.

Science 20 (5 credits)
Prerequisite: Science 10 (recommended 60%)
An integrated academic course that consists of four units of study: Chemistry, Physics, Ecology and Geology. This course is similar in rigor and math skill requirement to Science 10.

Science 24 (5 credits)
Prerequisites: Science 14 or 40% in Science 10.
This course is designed for students who are planning to attend university or college. Please refer to the universities or colleges you may attend to see if Science 30 is accepted for your chosen field of study.

Science 24 consists of four units of study: Chemistry, Physics, Disease Defense, and Transportation Safety.

Biology 30 (5 credits)
Prerequisite: Biology 20 (recommended 60%)
This course is designed for students who are planning to attend university or college. Please refer to the universities or colleges you may attend to see if Biology 30 is required for your chosen field of study.
Biology 30 consists of the following units of study: Nervous and Endocrine Systems, Reproduction, Human Development, Cell Division, Classical Genetics, Molecular Biology and Population and Communities.

Chemistry 30 (5 credits)
Prerequisite: Chemistry 20 (recommended 60%)
This course is designed for students who are planning to attend university or college. Please refer to the universities or colleges you may attend to see if Chemistry 30 is required for your chosen field of study.
Chemistry 30 consists of four units of study:

Physics 30 (5 credits)
Prerequisite: Physics 20 (recommended 60%)
This course is designed for students who are planning to attend university or college. Please refer to the universities or colleges you may attend to see if Physics 30 is required for your chosen field of study.
Physics 30 consists of four units of study: Momentum and Impulse, Forces and Fields, Electromagnetic Radiation, and Atomic Physics.

Science 30 (5 credits)
Prerequisites: Students must have passed Science 20 or any other 20 level science course to take Science 30.
Science 30 consists of four environmentally focused units of study: Human Systems (Biology); Chemistry and the Environment; Electromagnetic Energy Production; and Alterative Energy and the Environment.
Social Studies

Competency | Social Studies 10-1, 20-1, 30-1 | Social Studies 10-2, 20-2, 30-2
---|---|---
Writing Skills | Emphasis in the written component is on **complexity** and relationships among the issues. | Emphasis in the written component is on **identification** of issues and determining the value of a position.

Reading Comprehension Skills | Emphasis involves in-depth and **challenging** vocabulary in a broad range of formats. | Emphasis involves a **practical** application of vocabulary in range of formats.

- All high school Social Studies courses are required to complete a final exam with both a multiple choice and written component. At the grade 12 level this is the Provincial Diploma Exam.
- All Grade 9’s are required to write the Provincial Achievement Test (Multiple Choice).

**Social 10-1: Exploring Globalization**
*Prerequisite: Social Studies 9 (recommended 60%)*
Students explore multiple perspectives on globalization at the local, national, and international levels by way of the impacts of globalization on identity, lands, cultures, economies, human rights and international relations; with specific attention to the role of residential schools in historical and contemporary settings.

**Social 10-2: Living in a Globalized World**
*Recommended Prerequisite: less than 60% in Social Studies 9*
Students examine multiple perspectives on globalization at the local, national, and international levels by way of the impacts of globalization on identity, lands, cultures, economies, human rights and international relations; with specific attention to the role of residential schools in historical and contemporary settings.

**Social 20-1 Exploring Nationalism**
*Prerequisite: Social Studies 10-1 (recommended 60%)*
Students explore the complexities of nationalism in the Canadian and international contexts. Included is the study of the origins of nationalism and the influence of nationalism on regional, national and international relations.

**Social 20-2 Understandings of Nationalism**
*Prerequisite: Social Studies 10-2*
Students examine nationalism in the Canadian and international contexts. Included is the study of the origins of nationalism and the influence of nationalism on regional, national and international relations.
Social 30-1: Perspectives on Ideology  
*Prerequisite: Social Studies 20-1 (recommended 60%)*  
Students explore the development, complexities and a multitude of perspectives on the origins of ideologies with a focus on liberalism. Specific attention is focused on an investigation of the reasons for and against the application of ideological principles in contemporary political, social and economic practice. Completion of Social Studies 30-1 requires the writing of a provincial diploma examination.

Social 30-2: Understandings of Ideology  
*Prerequisite: Social Studies 20-2*  
Students examine the origins and components of ideology with a focus on liberalism. A variety of perspectives on the application of ideology in contemporary political, social and economic practice is examined. Completion of Social Studies 30-2 requires the writing of a provincial diploma examination.

Career and Life Management  
Student who wish to take Phys Ed 10T (3 credit) will register in CALM 20/Phys Ed 10 (3 credit)

Students who wish to take Phys Ed 10 (5 credit) or Phys Ed 10 Advanced (5 credits) will also register in CALM 20/Fitness 10

CALM 20 (3 credits)  
Career and Life Management (CALM 20) is a course that provides senior high students with opportunities to engage in authentic, useful and meaningful activities that help to develop and practice their skills in real life-based discussions and assignments. The aim of CALM is to enable students to make well-informed, considered decisions and choices in all aspects of their lives and to develop behaviors and attitudes that contribute to the well-being and respect of self and others, now and in the future. Over the course of the quarter, presenters from various local organizations are invited in to talk to students about real life issues that are prevalent to their age group and beyond. These presentations give students the opportunity to ask questions and allow for self-reflection, expression and personal growth.

Physical Education  
The aim of the Physical Education program is to enable individuals to develop the knowledge, skills, and attitudes necessary to lead an active, healthy lifestyle. The Physical Education program emphasizes active living with a focus on physical activity that is valued and integrated into daily life. All Physical Education courses are participation based and, therefore, require daily effort and proper active wear and indoor shoes in order to be successful.

Phys Ed 10 (5 credits)  
Designed for those students who really enjoy being active or participating in sports and introduces students to a wide variety of activities.

Phys Ed 10- Advanced (5 credits)  
is designed for those students who really enjoy being active and participating in sport at a higher level of intensity. Greater emphasis will be placed on skill and skill development in the advance program.

**Phys Ed 10T (3 credits)**  
Designed for those students who would like to meet the minimum requirements to graduate (3 credits of PE). There may be more emphasis on the activities that promote an active lifestyle and less emphasis on competitive sports.  
*Note: There may be an opportunity (dependent on interest and scheduling) to have classes that are all boys or all girls. Please indicate on your registration form if you would prefer such a class.*

**Phys Ed 20 and Phys Ed 30 (5 credits)**  
*Course Fee: $40.00*  
are available to those who would like to continue their learning and were successful in PE10. Students will be given input in the selection of course activities which may include field trips into the community.
International Baccalaureate

Grade 10
- Math 10C GPCHS IB Prep
- Math 20-1 GPCHS IB Prep
- Science 10 GPCHS IB Prep
- English 10-1 GPCHS IB Prep
- Social Studies 10-1 GPCHS IB Prep

Year 1
- IB Math SL (Math 30-1)
- IB Biology 20 HL
- IB Chemistry 20 SL
- IB English 20-1 HL
- IB History HL (Social 20-1)
- IB Theory of Knowledge 11
- IB French Ab Initio

Year 2
- IB Math SL (Math 31)
- Biology 30 HL
- Chemistry 30 SL
- Works In Translation 35
- IB English 30-1 HL
- IB History HL (Social 30-1)
- IB Theory of Knowledge 12
- IB French Ab Initio

* HL - Higher Level Courses
* SL - Standard Level Courses
**English 10-1 GPCHS IB Prep** (5 credits)
*Prerequisite: ELA 9 (recommended 80% or teacher recommendation)*
This course is strongly recommended for students planning on pursuing an IB diploma, as it will provide the groundwork for IB English (English 20 HL, English 30 HL and Works in Translation 35). This course is recommended for students thinking about pursuing a career with rigorous academic requirements. Students will receive a grounding in important literary concepts and conventions and will apply them to literature as well as the world around them. Expression through writing, collaboration, and classroom participation are all essential for success.

**IB English 20-1 HL** (5 credits)
*Prerequisite: English 10-1 GPCHS IB Prep (recommended 60%) or teacher recommendation.*
This is the one of three English courses required for IB English (English A: Literature Higher Level), and is taken in the student’s Grade Eleven year. However, eligible students enrolled in this class may choose to opt out of the IB component of the course (Internal Oral Presentation) at any time while still maintaining their enrollment. There is a heavy emphasis on literary texts and critical analysis in this course, providing a foundation for the demands of future IB assessments, the provincial diploma exam, and post-secondary studies.
*Students will earn credit in English 20-1*

**Works in Translation 35** (3 credits)
*Prerequisite: English 20 HL (recommended 60%)*
Taken in Grade 12, this course is the second of the three English courses required for IB English (English A: Literature Higher Level) and covers the translated works requirement. Students will study texts from three authors, originally written in a language other than English. This course will fulfill a number of IB requirements – the Interactive Oral Presentation, Reflective Statements, Supervised Writings, and a draft of the Written Assignment.

**IB English 30-1 HL** (5 credits)
*Prerequisite: English 20 HL (recommended 60%)*
Taken in Grade 12, this course is the third of the three English courses required for IB English (English A: Literature Higher Level). Students will write numerous literary commentaries in addition to the writing tasks in English 30-1. The genre focus will be on the novel, though other genres will also be explored. For IB assessments, students will complete their Written Assignment and Internal Oral Commentary and Discussion. Students will also prepare for their IB exams and the provincial diploma examination.
*Students will earn credit in English 30-1*

**Social Studies 10-1 GPCHS IB Prep** (5 credits)
*Prerequisite: Social Studies 9 (recommended 80% or teacher recommendation)*
Students explore multiple perspectives on globalization at the local, national, and international levels by way of the impacts of globalization on identity, lands, cultures, economies, human rights and international relations. Formative inquiry based projects introduce students to the study of history and the ethos of the IB program.
Key course questions:
1. To what extent should globalization shape identity?
2. To what extent should contemporary society respond to the legacies of historical globalization?
3. To what extent does globalization contribute to sustainable prosperity for all people?
4. To what extent should I, as a citizen, respond to globalization?

**IB History 20 HL** (5 credits)
*Prerequisite: Social Studies 10-1 GPCHS IB Prep (recommended 60%) or teacher recommendation*
A concentration on the study of the 20th century and regional focus on the history of Europe. Learners will demonstrate an awareness of key historical concepts, interpretations and relationships through the construction of arguments reflecting an understanding of continuity of change and impact of cause and effect.
**IB History HL topics**
1. The French Revolution and Napoleon I (1774–1815)
2. Europe and the First World War (1871-1918)
3. European states in the interwar years (1918-1939)
5. The move to global war 1931-1941
Causes and effects of 20th Century wars: The Cold War Superpower tensions and rivalries (20th Century)
*Students will receive credit in Social Studies 20-1*
IB History 30 HL (5 credits)
Prerequisite: Successful completion of IB History 20
A concentration on the study of the 20th century and regional focus on the history of Europe. Learners will demonstrate an awareness of key historical concepts, interpretations and relationships through the construction of arguments reflecting an understanding of continuity of change and impact of cause and effect.
IB History HL topics
1. The French Revolution and Napoleon I (1774–1815)
2. Europe and the First World War (1871–1918)
3. European states in the interwar years (1918–1939)
5. The move to global war 1931–1941
6. Causes and effects of 20th Century wars: The Cold War Superpower tensions and rivalries (20th Century)

Full IB credit students are required to complete:
- Internal Assessment (IA) comprising a 2,000 word historical inquiry
- 3 IB exam papers in May of the grade 12 year

*All students are also required to complete the Alberta Social Studies 30-1 provincial diploma examination to receive credit in Social Studies 30-1.

IB Theory of Knowledge (TOK) (6 credits)
Prerequisite: NONE
TOK is a course that is taken in two parts over the grade 11 and 12 years which allows students to seek an awareness of how individuals and communities construct knowledge & how this is critically examined through the following:
- Develop a fascination with the richness of knowledge as a human endeavor, and an understanding of the empowerment that follows from reflecting upon it
- Develop an awareness of how knowledge is constructed, critically examined, evaluated and renewed, by communities and individuals
- Encourage students to reflect on their experiences as learners, in everyday life and in the Diploma Programme, and to make connections between academic disciplines and between thoughts, feelings and actions
- Encourage an interest in the diversity of ways of thinking and ways of living of individuals and communities, and an awareness of personal and ideological assumptions, including participants’ own
- Encourage consideration of the responsibilities originating from the relationship between knowledge, the community and the individual as citizen of the world.

*Credits will be earned in Origins of Western Philosophy 20 (3 credit) and Philosophies of Man 30 (3 credit)

Math 10C GPCHS IB Prep (5 credits)
Prerequisite: Math 9 (recommended 80%) or teacher recommendation.
This course follows the regular Math 10C curriculum however, select concepts from the IB curriculum will be used to enrich the course.

Math 20-1 GPCHS IB Prep (5 credit)
Prerequisite: Math 10C GPCHS IB Prep or teacher recommendation.
IB Prep students will enroll in this course in the second semester of Grade 10. This course follows the regular Math 20-1 curriculum however, select concepts from the IB curriculum will be used to enrich the course.

IB Math 20 SL (10 credits)
Prerequisite: Math 10C GPCHS IB Prep (recommended 60%)
For the 2018-2019 school year only, Grade 11 students will finish Math 20-1 as well as the extra IB topics which include Vectors as well as some extra Statistics and Probability topics that were mentioned earlier. In semester 2 of their Grade 11 year, students will take Math 30-1 and write their Diploma Exam in June.

IB Math 30 SL (5 credits)
Prerequisite: IB Math 20 SL or Math 30-1 (recommended 60%)
The Grade 12 year consists of Math 31 (Calculus) with a few extra IB topics. In this year, students are required to complete a Mathematics Internal Assessment. This is a research paper that includes some aspect of Mathematics.

Science 10 GPCHS IB Prep (5 Credits)
Prerequisite: Science 9 (recommended 80% or teacher recommendation)
The aim of this course is to offer the Science 10 curriculum to a more detailed extent using the Biology HL International Baccalaureate (IB) curriculum and the Chemistry SL International Baccalaureate (IB) curriculum. Students will write the same exams as the Science 10 course.
IB Biology 20 HL/IB Chemistry 20 SL (10 credits)
Prerequisite: It is highly recommended that you have a mark of 60% or higher in Science 10 GPCHS IB Prep to be successful in Biology 20/Chemistry 20 IB.
This is a full year course that aims to offer the same curriculum as Biology 20 and Chemistry 20 but to a more detailed extent using the Biology HL International Baccalaureate (IB) curriculum and the Chemistry SL International Baccalaureate (IB) curriculum. Students will write the same exams as the Biology 20 and Chemistry 20 courses. This course will be of benefit to those students who plan to go to university to study science, medicine or engineering.

IB Chemistry 30 IB (5 credits)
Prerequisite: Chemistry 20 IB
The aim of Chemistry 30 IB is to offer the same curriculum as Chemistry 30 but to a more detailed extent using the Chemistry SL International Baccalaureate (IB) curriculum. Students will write the same exams as the Chemistry 30 courses, including the Chemistry 30 diploma. This course will be of benefit to those students who plan to go to university to study science, medicine or engineering.

Biology 30 HL (5 Credits)
Prerequisite: IB Biology 20 HL
The aim of this course is to offer the same curriculum as Biology 30 but to a more detailed extent using the Biology HL International Baccalaureate (IB) curriculum. Students will write the same exams as the Biology 30 courses, including the Biology 30 diploma. This course will be of benefit to those students who plan to go to university to study science, medicine or engineering.

IB Biology 35 (5 Credits)
Prerequisite: Biology 30 IB
The aim of Bio35 is to review all Biology HL International Baccalaureate (IB) curriculum from Science 10 through Biology 30 and an optional IB unit to prepare for the IB exams. You will also design, run, and write up an investigation on a topic that you have personal engagement in to submit as an Internal Assessment to IB. This course will be of benefit to those students who plan to go to university to study science, medicine or engineering.

IB French Ab Initio
Prerequisite: None
You do not have to take the IB exams to be registered in this course. However, a strong desire to communicate in French is essential for success. Conversational and written communication are the focus of the class, in preparation for the IB assessments. Themes studied are: childhood, technology, professions, entertainment, and customs of the French-speaking world. The language is explored through many authentic French sources such as a radio, video, film and music.
Grade 10-12 Elective Course
Automotive Studies

Junior Automotive (5 credit)
Prerequisite: None
Course Fee: $40.00
In Junior Automotive students will learn the proper names, uses, and care of common automotive tools and fasteners. They will learn how to do basic maintenance on vehicles, such as checking the oil, changing the oil, changing a tire, and overall care of a vehicle. Students will learn how an engine operates, the parts of an engine, and basic repair procedures. Both two stroke and four stroke will be covered. Safety is taught at every level of all CTS (Career and Technology Studies) courses and is the foundation of our programs. Modules to be completed include:
MEC1015: Mechanics Tools & Materials,
MEC1020: Vehicle Service & Care
MEC1040: Engine Fundamentals
MEC1110: Pneumatics & Hydraulics
MEC1150: Ride & Control Systems
*the remaining two credits will be offered based on student interest, available materials and class focus.

Senior Automotive (5 credit)
Prerequisite: Junior Automotive
Course fee: $40.00
*NOTE: Students may choose this elective multiple times per year.

This program is designed for the student who has not yet decided on a career path or just wants to learn how to fix their own vehicle. Safety is taught at every level of all CTS (Career and Technology Studies) courses and is the foundation of our programs. Students may enroll in
Senior Automotive multiple times as they work to complete modules such as:
MEC2010: Vehicle Detailing
MEC2020: Vehicle Maintenance
MEC2160: Steering Systems
MEC2150: Suspension Systems
MEC3150: Wheel Alignment
MEC2100: Power Assist Accessories
MEC2110: Braking Systems
MEC2120: Hydraulic Accessories
MEC3100: Safety Systems
MEC3120: Power Assisting
MEC2130: Drive Line
MEC2140: Transmissions/Transaxles
MEC3140: Drive Train Repair
MEC3130: Automatic Transmissions
MEC2050: Alternative Fuel Engines
MEC2040: Fuel & Exhaust Systems
MEC2070: Emission Controls
MEC3010: Buying & Selling Vehicles
MEC3080: Alternative Energy Systems
MEC3090: Computer Systems
MEC1090: Electrical Fundamentals
MEC2060: Ignition Systems
MEC3030: Engine Diagnosis
MEC3040: Engine Tune-Up
MEC3060: Engine Reconditioning – Head
MEC3070: Engine Reconditioning – Block
Automotive Apprenticeship

This program is designed for students who are planning to go into the automotive trade. The apprenticeship program consists of nineteen courses. The program is delivered over two semesters in two parts. Part A is 12 credits over one semester for two teaching blocks. Part B is seven credits over one semester for one teaching block. When a student completes all nineteen courses with a grade of 70% or higher, and becomes a registered apprentice in the trade, they will be eligible to challenge the First period Automotive Apprenticeship exam. The course fee for the complete program is $120.00. $80.00 is for part A and $40.00 for part B.

Students will learn:

- how to apply the Occupational Health and Safety (OHS) Act, Regulation and Code, as well as the changes from Bill C-45.
- to practice workshop health and safety, communicate and plan for a career.
- learn the proper names, uses, and care of common automotive tools and fasteners.
- learn how to use electronic service information and scan tools in the servicing and repair of vehicles.
- to understand how electricity is created, stored and used to support the requirements of the automobile.
- to service and repair electrical circuits.
- to diagnose service and repair electrical systems and develop an understanding of active and passive restraint systems.
- to service and repair electric assist and hydraulic assist steering systems.
- to service and repair suspension and steering systems. Students will learn how to perform a wheel alignment, repair steering columns, and service air bags.
- to develop the knowledge, skills and attitudes necessary to service and maintain vehicle wheel hubs, tires and drive shafts.

During Practicum A and B, Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences. This practicum course may be delivered on- or off-campus. Instruction must be delivered by a qualified teacher. Students on the work site continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences. This practicum course may be delivered on- or off-campus. Instruction must be delivered by a qualified teacher.

Automotive Apprenticeship A (12 credits)
Prerequisite: Junior Automotive
Course Fee: $80.00
ASA3900: apprenticeship safety
ASA3400: Basic Tools & Materials
ASA3402: Vehicle Service Information
ASA3405: Electrical Principles
ASA3410: Electrical Circuits
ASA3412: Electrical Service
ASA3420: Steering Systems
ASA3425: Suspension Systems
ASA3430: Alignment Procedures
ASA3450: Wheels & Drive Lines
ASA3455: ASA Practicum A
ASA3460: ASA Practicum B

Automotive Apprenticeship B (7 credits)
Prerequisite: Automotive Apprenticeship A
Course Fee: $40.00
ASA3435: Brake Fundamentals
ASA3440: Disc & Drum Brakes
ASA3445: Brake System Repairs
ASA3465: ASA practicum C
ASA3470: ASA practicum D
ASA3452: Maintenance & Trailers
ASA3415: Frames & Undercarriage
**Business Education**

**Business 10-20** (6 credit)
*Prerequisite: None
*Students will complete Business 10 and 20 throughout the semester

Business 10
Students will identify, compare and assess a variety of venture opportunities and ideas. They will also learn the elements of the venture planning process and compare various sources of financing and choose the method that is best for financing a venture. They will complete a minimum of 3 ENT (Enterprise and Innovation) modules:
- ENT1010: Challenge & Opportunity
- ENT1020: Elements of a Venture Plan
- ENT2020: Financing Ventures

Business 20
Students will enhance the knowledge and skills acquired in Business 10 through a variety of ENT and MAM (Management and Marketing) modules. There will be some opportunity to pursue specific interests. Students will complete a minimum of 3 modules. Potential modules include:
- ENT2010: Analyzing Ventures
- ENT2030: Marketing the Venture
- MAM1010: Marketing & Management
- ENT3010: Managing the Venture
- MAM1040: E-Commerce 1

**Law 20** (5 credits)
Law 20 is intended to be an introductory look at a wide range of law topics including contracts, wills and testaments, renting property, consumer law, criminal law, torts, marriage and divorce law, family law, and labor law. With the study of law being a vast area of topics, students will spend an appropriate amount of time to grasp important concepts in each area allowing them to study the many different concepts.

**Law 30** (5 credits)
Law 30 is an extensive study in five areas of law including Criminal, Torts, Consumer and Property, Business, and Controversial Law Topics. Students will be given an opportunity to learn about each area of law through real case studies with a focus on Canadian Law as well as looking at an international point of view when applicable. Each student will be able to apply their learning in the different areas of law in their own day to day life situations as they arise.
Computer Studies

Computer Studies 10 (5 credit)

*Prerequisite: none*

Course fee: $40.00

In this course students will explore four areas of studies with computers:

1. Robotics
2. Computer Science
3. Information Processing
4. Computer Technology

Computer Studies 20/30 (5 credits each)

*Prerequisite: Computer Studies 10*

Students enrolled in Computer Studies 20/30 will choose their desired pathway from the following four strands:

1. Robotics
   *Course Fee: $40.00*
   Students will use the LEGO® MINDSTORMS® NXT robotics kits to building multi sensor robots, conduct research in human-computer interaction, artificial intelligence, and software programming tools. With LEGO® MINDSTORMS®, students will gain experience with techniques used in the real world of science, engineering and design. They will design, build and program fully functional models. Student’s will be challenged at each level in creativity, planning, system and sub-system design, analysis, problem solving, troubleshooting, teamwork, critical thinking and hands-on practical application of theoretical knowledge with “real world examples.” Students will also have opportunity to pursue specialized robotics topics through project courses as time permits.

2. Computer Science
   *Course Fee: $40.00*
   In these classes students will be exposed to programming (creating code to make a computer work) concepts. Students will have enough exposure to be able to move to post-secondary computer science programs and accomplish their academic goals.

3. Information Processing
   Students will gain skill in working with Microsoft Office Software (Word, Excel, Desktop Publishing, PowerPoint and Access).
   - Works with any version of MS Office software
   - Independent, self-paced projects.
   - Format simulates real business work orders.
   - Challenges students to use critical thinking and decision-making skills.
   - Real business logos are used to produce professional-style.
   - Aligned with the Microsoft Office Certification skills.

4. Computer Technology
   CompTIA IT Fundamentals
   *Course Fee: $20.00*
   This course focuses on the essential IT skills and knowledge needed by advanced end-users and entry-level IT professionals alike, including:
   - Identifying and explaining computer components.
   - Setting up a workstation, including conducting software installations.
   - Establishing network connectivity.
   - Identifying compatibility issues and identifying and preventing security risks.
   - Managing the safety and preventative maintenance of computers.

CompTIA A+

*Course Fee: $140.00*

CompTIA A+ is the industry standard for computer support technicians. The international, vendor-neutral certification proves competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. CompTIA A+ certified technicians also have excellent customer service and communication skills to work with clients. CompTIA A+ is part of the certification track for corporations such as
Microsoft, Hewlett-Packard, Cisco and Novell. Two exams are necessary to be certified: CompTIA A+ Essentials, and CompTIA A+ Practical Application.

**Please Note:** The CompTIA courses offered at GPCHS are for high school credits only and are offered to assist students in preparing to take the external certification exams, if they choose, at an independent testing center. All arrangements and expenses for the external certification exam sitting and travel are the responsibility of the student and are over and above the course fee. Exam fees are payable to the testing center, Pearson VUE. No responsibility will be taken by the school for failed exams as it is the student’s responsibility to adequately prepare for an exam.

**Construction**

**Junior Construction (5 credit)**
*Prerequisite: None  
Course Fee: $40.00*

This Course may be offered as both a quarter course (3 credit), or a full semester course (5 credit). In this class you will be learning about the tools and the materials of the carpentry trade. You will learn how to safely operate a variety of shop tools to make some handy little projects, from a stool, to a folding chair or bench. This course does require working with power tools as well as hand tools and will require your full attention and effort. This is the introductory level Construction courses. The Courses that will be covered in this class are listed below.

- CON1010: Construction Tools & Materials
- CON1130: Solid Stock Construction
- CON1120: Product Management
- CON1160: Manufactured Materials
- CON1910: Con Project
Senior Building Construction (5 credit)
Prerequisite: Construction 10
Course Fee: $40.00 (5 credit)
*NOTE: Students may choose this elective multiple times per year.
This intermediate level course has potential to head into two very different aspects of the Carpentry trade, either Building Construction or Furniture Construction. Students will have the opportunity to work in both aspects or can choose to focus on one or the other. The Building Construction students will work on actual full sized buildings, eg. Storage Sheds, etc.. The Furniture Construction Students will work on a small nightstand drawer, and or, have the chance to design a small cabinet or piece of furniture of their own. This class is offered in both 5 and 10 credit options, the exact setup and delivery of these courses may vary, slightly from the list below based on student inquiry and skill set.

<table>
<thead>
<tr>
<th>Senior Building Construction 20</th>
<th>Senior Furniture Construction 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 and 10 credit</td>
<td>5 and 10 credit</td>
</tr>
<tr>
<td>CON1070: Building Construction</td>
<td>CON2130: Furniture- Box Construction</td>
</tr>
<tr>
<td>CON2035: Framing Systems- Floor</td>
<td>CON2140: Furniture- Frame and Panel</td>
</tr>
<tr>
<td>CON2045: Framing Systems- Wall</td>
<td>CON2160: Cabinetmaking – Web &amp; Frame Face</td>
</tr>
<tr>
<td>CON2050: Roof Structures 1</td>
<td>CON2170: Cabinetmaking – Door and Drawer</td>
</tr>
<tr>
<td>CON2910: Con Project B</td>
<td>CON2910: Con Project B</td>
</tr>
<tr>
<td>10 credit</td>
<td>10 credit</td>
</tr>
<tr>
<td>CON2010: Site Preparation</td>
<td>CON2120: Multiple Materials</td>
</tr>
<tr>
<td>CON2020: Concrete Forming</td>
<td>CON2150: Finishing and Refinishing</td>
</tr>
<tr>
<td>CON2030: Alternative Foundations</td>
<td>CON2180: Wood Forming</td>
</tr>
<tr>
<td>CON2060: Doors, Windows, and Siding</td>
<td>CON2200: Product Development</td>
</tr>
<tr>
<td>CON2920: Con Project C</td>
<td>CON2920: Con Project C</td>
</tr>
</tbody>
</table>

Senior Building Construction (5 credit)
Prerequisite: Construction 10
Course Fee: $40.00 (5 credit)
*NOTE: Students may choose this elective multiple times per year.
This is the final stage of high school Construction. Here you will have the opportunity to work on the playhouses for the Pregnant and Parenting Teens Raffle, as well as the opportunity to further investigate the carpentry trade. This course does require working with power tools and hand tools and will require your full attention and effort. The Courses that will be covered in this class will require you to draw on your experiences from your past shop classes to create bigger and better things. There is always the possibility that the courses that are covered in class may vary slightly from the list below based on student inquiry and skill set.

<table>
<thead>
<tr>
<th>Senior Building Construction 30</th>
<th>Senior Furniture Construction 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 &amp; 10 credit</td>
<td>5 and 10 credit</td>
</tr>
<tr>
<td>CON3120: Tool Maintenance</td>
<td>CON3120: Tool Maintenance</td>
</tr>
<tr>
<td>CON3010: Concrete – Structure &amp; Finishes</td>
<td>CON3130: Furniture – Leg &amp; Rail</td>
</tr>
<tr>
<td>CON3050: Roof Structures 2</td>
<td>CON3140: Furniture – Surface Enhancement</td>
</tr>
<tr>
<td>CON3910: Con Project D</td>
<td>CON3910: Con Project D</td>
</tr>
<tr>
<td>CON3920: Con Project E</td>
<td>CON3920: Con Project E</td>
</tr>
<tr>
<td>10 credit</td>
<td>10 Credit</td>
</tr>
<tr>
<td>CON3040: Stair Construction</td>
<td>CON3040: Stair &amp; Construction</td>
</tr>
<tr>
<td>CON3060: Doors and Trim</td>
<td>CON3060: Doors &amp; Trim</td>
</tr>
<tr>
<td>CON3160: Cabinetmaking – Cabinet &amp; Countertops</td>
<td>CON3160: Cabinetmaking – Cabinet &amp; Countertops</td>
</tr>
<tr>
<td>CON3090: Renovations/Restorations</td>
<td>CON3090: Renovations/Restorations</td>
</tr>
<tr>
<td>CON3030: Wall and Ceiling Finishing</td>
<td>CON3150: Furniture Repair</td>
</tr>
</tbody>
</table>
The CTS Cosmetology Strand is accredited by the Alberta Apprenticeship and Trade Certification program. The strand offers full technical training in the Hairstyling Trade upon the completion of 50 designated modules or credits. This means, after completing the program in High School, students can directly enter the work force as an apprentice in a salon. Additional information for the cosmetology program is available from our Cosmetology staff.

Students wishing to complete the Apprenticeship Program must take all five cosmetology courses. Some students may require an extra time to complete the full program. In courses with high demand, preference will be given to students that are taking the Apprenticeship Program and students that have a good standing in the program.

### Cosmetology 10 (5 credit)
**Prerequisite:** None  
**Course Fee:** $40.00  
Cosmetology 10 is designed as a general interest course, but is a prerequisite to the apprenticeship program. It contains courses that cover basic knowledge in personal and professional grooming, shampooing and styling, long hair design, and manicuring.

### Theatrical Makeup (5 credit)
**Prerequisite:** None  
**Course Fee:** $60.00  
In Theatrical Makeup students will have the opportunity to learn about safety and sanitation in the theatrical makeup industry. Some of the skills students will learn include: creating bruises, cuts, bullet wounds, broken bones, face painting, and the attachments of prosthesis. Students will be expected to work in individual and group environments.

### Nail Tech (5 credit)
**Prerequisites:**  
*COS1010: Personal and Professional Practices*  
*EST1070: Manicuring 1*  
**Course Fee:** $40.00  
Nail Tech is designed to introduce and train students in nail care and services. Areas of study basic and treatment manicures, pedicures, nail art, spa design, and client services. Daily attendance is mandatory and student will be required to work on each other and as well as clients from the community.

### Skin Care (5 credit)
**Prerequisite:**  
*COS1010: Personal and Professional Practices*  
**Course Fee:** $60.00  
Skin care is designed to introduce and train students in a variety of esthetic services including facial massage, basic and deep skin cleansing, basic and corrective makeup, various waxing, lash and brow tinting, and lash attachment. Daily attendance is mandatory to meet apprenticeship requirements. Students are required to give and receive all services as well as work on clientele from the public. This is a semester class and some of the courses offered in this class are requirements of the Hairdressing Apprenticeship program. Students who are in the apprenticeship program will be given priority during registration.

*This course is required for completion of Apprenticeship.*
**Cosmetology 20** (10 credit)
Prerequisite: Cosmetology 10  
Course Fee: $80.00  
Students learn the basics in hair cutting, styling, braiding, hair and scalp treatments, hair colouring, and permanent waving. There is a strong theory component and lots of guided practical which is done on mannequins, classmates, and clients. Daily attendance is mandatory to obtain all the benefits of demonstrations and guided practice. 70 percent is recommended in all courses in order to move on in the program. Students can earn up to fourteen (14) when taken for a 10 credit, double-block.

**Cosmetology 30** (10 credit)
Prerequisite: Cosmetology 20 (Recommended 70% in each module)  
Course Fee: $80.00  
This course deals with expanding the knowledge and skills learned in the previous courses and prepares students for client work as they work on skill level building to industry standards of client services. Added areas of study include hair lightening, long hair styling, advanced hair cutting, chemical relaxing and straightening. It is important that students have a professional attitude in this senior level course as the will be booked with clients from the school and the community.

**Cosmetology Apprenticeship**

**Cosmetology 40-Apprenticeship**  
Prerequisite: Cosmetology 30 (Recommended 70% in each module)  
Course Fee: $100.00  
At this level students have likely decided to pursue Cosmetology as a career. To help students to prepare for the work environment a strong client service component is included where students are required to build their own clientele as well as perform services on members of the community. The majority of the time is spent building technical skill in all previous areas of study. Additional areas of study that are taken during this time period are: professional practices, male facial grooming, advanced hair colouring, and designer permanent waves. Daily attendance and participation is mandatory in order to meet apprenticeship requirements.
**Culinary Arts**

**Foods 10** (5 credits)
*Prerequisite: None
*Course Fee: $40.00

**Foods 20** (5 credits)
*Prerequisite: Foods 10
*Course Fee: $40.00

**Foods 30** (5 credits)
*Prerequisite: Foods 20
*Course Fee: $40.00

<table>
<thead>
<tr>
<th>Foods 10</th>
<th>Foods 20</th>
<th>Foods 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Possible Modules included in this course:</td>
<td>Possible Modules included in this course:</td>
<td>Possible Modules included in this course:</td>
</tr>
<tr>
<td>FOD1010 Food Basics</td>
<td>FOD2030 Food Decisions &amp; Health</td>
<td>FOD9030 Creative Baking</td>
</tr>
<tr>
<td>FOD1020 Contemporary Baking</td>
<td>FOD2050 Bread Products</td>
<td>FOD9040 Yeast Products</td>
</tr>
<tr>
<td>FOD1030 Snacks &amp; Appetizers</td>
<td>FOD2060 Milk Products &amp; Eggs</td>
<td>FOD9050 Advanced Soups &amp; Sauces</td>
</tr>
<tr>
<td>FOD1040 Meal Planning</td>
<td>FOD2110 Fish &amp; Poultry</td>
<td>FOD9080 Advanced Meat Cookery</td>
</tr>
<tr>
<td>FOD2040 Cake &amp; Pastry</td>
<td>FOD2130 Vegetarian Cuisine</td>
<td>FOD9100 Entertaining with Food</td>
</tr>
<tr>
<td>FOD2070 Soups &amp; Sauces</td>
<td>FOD2150 Safe Food Handling</td>
<td>FOD9120 Food Evolution/Innovation</td>
</tr>
<tr>
<td>FOD2090 Creative Cold Foods</td>
<td>FOD3060 Food Presentation</td>
<td>FOD9150 Regional Cuisine</td>
</tr>
<tr>
<td>Enrichment: FOD1070 Farm to Table</td>
<td>Enrichment: FOD2910 Project B</td>
<td>Enrichment: FOD3920 Project E</td>
</tr>
</tbody>
</table>

*Students enrolled in Foods 10, 20 or 30 will earn a minimum of 5 credits*

The Foods program is designed to meet the culinary learning needs of all students by advancing their food prep, culinary, and baking skills. Through partnership and small group activities, students will explore a wide range of cooking theory and techniques. Topics covered include, but are not limited to: food safety, nutrition, classic sauce preparation, meal planning, food photography, menu costing, molecular gastronomy, budget cooking, meat cutting, basic through advanced cake decorating, basic and advanced yeast breads, international cuisine, and cooking for an audience. The grading balance of each course (module) typically consists of 65% hands-on work with 35% covered by theory, the course exam and reflective exercises.

Students produce food that is tasted and assessed by the teacher, their classmates, other classes and teachers throughout the school, as well as the public during events like the Spring Arts Gala.

Any Foods students with a special interest in cooking who wish to take their baking or culinary fortitude to a more refined level have the opportunity to train for the Skills Alberta competitions which happen in April and May or participate in an apprenticeship with the Head Chef in the cafeteria.
**Fabrication Studies (Welding)**

**Junior Welding** (5 credit)

*Prerequisite: None
*Course Fee: $40.00

The first module is devoted to workplace safety and the hazards and protective gear necessary in the field of welding. Welding process basics will be introduced and exampled. The second module will introduce the art of Oxyacetylene welding process and techniques. Students will learn proper operations of startup and shutdown procedures before venturing towards producing quality puddles, beads, corners and lap welds. The third module will introduce the art of Arc welding process and techniques. Students will learn and practice basic types of welds using various electrodes on differing metal thicknesses. A final practical exam will be set for both Oxy Acetylene and Arc welding modules set by the instructor. *Students should be aware that welding may aggravate conditions like asthma.*

Modules included in this course at this level:

- FAB1010: Fabrication Tools & Materials
- FAB1048: Semi-Automated/Automated Welding
- FAB1050: Basic Electric Welding
- FAB1090: SHEET Fabrication 1
- FAB1100: Fabrication Principles
- FAB1110: Bar & Tubular Fabrication
- FAB1910: Fab Project A

**Senior Welding** (5 credit)

*Prerequisite: Introductory Welding 10
*Course Fee: $60.00

*NOTE: Students may choose this elective multiple times per year.*

Students wishing to further their skills in welding will complete the following modules:

- FAB2020: Print Reading and/or
- FAB 3020: Metallurgy
- FAB 2050: (Arc flat position)
- FAB 2060 (Arc horizontal position)
- FAB 2030 (Oxy/Acet)

Once students have completed the above senior modules they may move on and register for other advanced FAB modules. Prerequisites are in place for each module as the student moves forward. There will be room for those wishing to work on fabrication projects to be discussed and planned with the instructor.

Many modules are included for selection such as:

- FAB2030: Oxyfuel Welding
- FAB2040: Thermal Cutting
- FAB2048: Flux Cored Arc Welding 1
- FAB2050: Arc Welding 1
- FAB2060: Arc Welding 2
- FAB2070: Gas Metal Arc Welding 1
- FAB2090: Sheet Fabrication 2
- FAB2100: Sheet Fabrication 3
- FAB2160: Custom Fabrication
- FAB2170: Pipe Fitting
- FAB2910: Fab Project B
- FAB2920: Fab Project C
- FAB2950: Fab Intermediate Practicum
- FAB3020: Metallurgy Fundamentals
- FAB3030: Gas Tungsten Arc Welding
- FAB3040: Specialized Welding
- FAB3048: Flux Cored Arc Welding 2
- FAB3050: Arc Welding 3
- FAB3060: Arc Welding 4
- FAB3070: Pipe & Tubular Welding
- FAB3080: Automated Welding
- FAB3090: Sheet Fabrication 4
- FAB3110: Sheet Fabrication 5
- FAB3160: Prefabrication Principles
- FAB3170: Gas Metal Arc Welding 2
- FAB3910: Fab Project D
- FAB3920: Fab Project E
- FAB3950: Fab Advanced Practicum
**Art**

All Art students are expected to think and behave as artists. Students must be open minded and dedicated. They should possess a spirit of creativity. Lessons and projects will derive inspiration from International, Canadian/FNMI historical and current artists and art movements. Tours of the Art Gallery of Grande Prairie Gallery will be organized throughout the term when appropriate and relevant.

**Art 10 (5 credits)**  
*Prerequisite: NONE*  
*Course Fee: $20.00*  
Art 10 focuses primarily on skill development and the understanding of The Elements of Art; line, shape, color, value, form, texture and space. Students will develop technical skills within the various disciplines of drawing, painting, printmaking and sculpture. Students will learn to draw basic shapes and use value to enhance their drawings. Students will demonstrate, through painting projects, an understanding of basic color theory. Students will learn basic linoleum printing techniques, as well how to register prints and safe use of the printing press. Students will learn basic sculpting methods such as coil making, etching into clay, as well as additive and subtractive techniques.

**Art 20 (5 credits)**  
*Prerequisite: Art 10*  
*Course Fee: $20.00*  
Students in Art 20 will build on the learning and skills obtained in Art 10 with a greater emphasis placed on media exploration. Students will continue to complete projects in drawing, painting, sculpture and printmaking. Students will explore a variety of drawing projects, as well as collograph printmaking, three dimensional sculptures derived from nature, acrylic painting using additives and much more.

**Art 30 (5 credits)**  
*Prerequisite: Art 20*  
*Course Fee: $20.00*  
Students will continue developing their skills and creativity, within drawing, painting, printmaking and sculpture, with a greater emphasis on Independent Study and development of their own personal style. Students will explore various drawing projects, as well as dry point etching, clay plug sculpting, encaustic and painting on silk.

---

**Drama**

**Drama 10 (5 credits)**  
*Prerequisite: NONE*  
*Course Fee: $20.00*  
Do you like getting to know new people? Do you enjoy working in groups to create ideas? Drama 10 may be the course for you. Drama has two main goals. The first is to help students develop self-confidence and improve self-esteem. This is accomplished by giving students opportunities to perform, mainly for classmates, and occasionally for outside audiences. The second goal is to teach basic drama skills and to assist students in developing those skills as a performer, technician, historian and critic. Drama 10 is designed to give students a general introduction to a number of different theatre forms, allowing students to gauge their interest in drama as a hobby or as a potential career.

**Drama 20 (5 Credits)**  
*Prerequisite: Drama 10*  
Senior Drama 20 builds upon the foundation established in Drama 10 by allowing the student an opportunity to expand her drama experience through production and performance. Drama 20 is designed to give students an in-depth study of a number of different theatre forms, and allowing them to gauge their interest in drama as a hobby or as a potential career. Application of terminology and technique is emphasized. At least one event will be produced for an audience. Past productions have included dramas, comedies, Shakespeare and musicals. Opportunities will be provided for guest speakers and field trips to areas of interest. A majority of the work is group oriented.

**Drama 30 (5 Credits)**  
*Prerequisite: Drama 20*  
Senior Drama 30 builds upon the foundation established in Drama 10 and 20 by allowing the student an opportunity to expand his drama experience through writing, directing, production and performance. Drama 30 is designed to give students an in-depth study of a number of different theatre forms, allowing students to gauge their interest in drama as a hobby or as a potential career. Application of terminology and technique is emphasized. At least one event will be produced for an audience. Past productions have included dramas, comedies, Shakespeare and musicals. Opportunities will be provided for guest speakers and field trips to areas of interest. A majority of the work is group oriented. Drama 30 students will be expected to take a leadership role in events produced by the class.
**Film and Media Art**

**Film and Media Art 15** (5 Credits)

*Prerequisite: NONE*

Do you like to watch and talk about movies and other popular media? Film and Media Art 15 is open to students who are interested in cinema and film language. It involves actively viewing and discussing visual communication that has literary merit. Media will be studied and meaning explored in a variety of contexts including short subjects, cartoons, television, documentaries and feature film. Thinking in terms of “film language” will be emphasized in discussion and in a variety of assignments. Guest speakers from the local film community and from around the world will be invited to share their passion with Film and Media Art students.

**Film and Media Art 25** (5 Credits)

*Prerequisite: Film and Media Art 15 is recommended*

Senior Film and Media Art 25 builds upon the foundation of knowledge and concepts studied and applied in FAMA 15. FAMA 25 continues the journey of examining films and their meaning, often focusing on a series of works by a few major directors. At least two major projects will be required in addition to regular classroom activities and assignments. Students may have the opportunity to attend and even host film festivals and filmmakers will be invited to share their experiences and their craft.

**Film and Media Art 35** (5 Credits)

*Prerequisite: Film and Media Art 25 is recommended*

Senior Film and Media Art 35 builds upon the foundation of knowledge and concepts studied and applied in Film 15 and Film 25. Film 35 continues the study of films and their meaning, with a focus on auteurs and their classic work from around the world. At least two major projects will be required in addition to regular classroom activities and assignments. Students may have the opportunity to attend film festivals and filmmakers will be invited to share their expertise.

**Musical Theatre 15** (5 credits)

*Prerequisite: None*

Are you a singer, actor or dancer looking for the perfect avenue to showcase your talent and passion for the fine arts? Have you ever wanted to create a musical of epic proportions? If this sounds perfect for you then let your voice be heard! With your interest, the Grande Prairie Composite High School could have its first ever Musical Theatre option!

This course would be part of a NEWLY DEVELOPED program which encourages students to embrace their inner artist and take those talents to the stage. The course will be performance-based and will require dedication and hard work to present a successful final stage production (likely in a local theatre with public admission). This inspiring program will anchor confidence and work ethic which can add to success in all areas of your future!
**French**

**At the 10, 20 and 30 levels, students will have the opportunity to complete the DELF A1 and A2 level exam. This European based French proficiency test will evaluate the student’s oral and written comprehension and production. Upon successful completion of the exam, students will receive an official certificate from France that is a great addition to their resume.**

---

**French 10 9Y (5 credits)**
*Prerequisite: French 9 9Y*
At the high school level, students enrolled in the French as a second language program will begin to learn new language concepts such as past tenses and simple future tenses as well as new theme-specific vocabulary to enrich the quality of their oral and written communication.

**French 20 9Y (5 credits)**
*Prerequisite: French 10 9Y*
This course aims to further develop the student’s language acquisition through authentic and engaging learning activities. Students will add more sophisticated vocabulary to their repertoire as well as new verb tenses.

**French 30 9Y (5 credits)**
*Prerequisite: French 20 9Y*
Students will be introduced to new grammatical concepts that will help prepare them for university level French courses. Students will also find themselves participating in more group-based learning activities that will help improve and fine tune their oral communication. They will also have the opportunity to work with grade 2 immersion students at the end of the term.

---

**French 10 3Y (5 credits)**
*Prerequisite: NONE*
You haven’t studied French before? Don’t fret! As long as you have the passion and willingness to learn, this class is for you. Through fun and creative activities, we will introduce you to basic grammar concepts and provide you with the tools to communicate in French at a beginner level.

**French 20 3Y (5 credits)**
*Prerequisite: French 10 3Y*
In this course we will continue to explore the French language, learn new vocabulary and verb tenses to vary the ways they express themselves. In basic situations, will find themselves more comfortable communicating in French.

**French 30 3Y (5 credits)**
*Prerequisite: French 20 3Y*
Students will be introduced to new and exciting grammar concepts that will help to enrich the quality of their oral and written communication. At the end of the semester, students will have the opportunity to work with younger French language learners and have them participate in activities they create themselves.
The band is made up of woodwind, brass and percussion instruments. The band rehearses a wide range of music styles from classical to modern compositions including pop, marches and transcriptions. Students who enroll in band usually have previous experience playing a band instrument, but exceptions can be made by contacting the instructor to find out how they might fit into the ensemble. The Senior High School Instrumental Music Program is designed as a sequential and developmental approach to music instruction. Each level grows from those experiences previously presented.

*Student receive credit in Instrumental Music and/or General Music 10, 20, or 30

The String orchestra prepares students for a lifetime of musical appreciation and performance. Technical skills are built through repertoire ranging from early baroque to current compositions. Opportunity is given for full orchestra experiences. It is expected that students registering in the orchestra will have previous experience playing a string instrument (violin, viola, cello, or bass); however, students wishing to register without previous playing experience should contact the instructor to find out how they might fit into the ensemble.

*Student receive credit in Instrumental Music and/or General Music 10, 20, or 30

This is a course that explores choral singing from a wide variety of cultures and time periods, including both classical and popular. The core curriculum emphasizes performing and healthy vocal technique. It is a fun, high-energy way to learn about music. The choral music program seeks to develop musical competency and strives for excellence within the limits of the student's capabilities. The concepts of rhythm, melody, harmony, form and expression provide the intellectual framework of the music program. Concepts are essentially taught through student participation in the skill areas of singing, playing, listening, reading (and writing) and creating.

*Student receive credit in Choral Music and/or General Music 10, 20, or 30

This course will allow students to develop their skills and knowledge as guitarists, songwriters and music enthusiast. Using different media, this course provides students an understanding of the elements and structures of music as they apply to performance on the guitar.

*Prerequisite: None
Visual Communications

We have state of the art design labs, compiled of Alienware PC computers and Apple iMacs, Canon and Nikon DSLRs, GoPros and DJI Ronin gimbals, a massive green screen, laser CNC cutter/printer, full recording studio and best of all, FUN and CREATIVITY!!

Visual Communications 10 (5 credit)
Course Fee: $40.00
This first course of Visual Communications CTS is a gateway to all courses in Visual Communications. This class is the prerequisite course for photography, videography, graphic art, and any other class hybrid possible at any grade level. You will be creating commercials, taking studio photographs, generating Photoshop artwork and recording your very own music.

The sequence of the class is as follows:
Visual Composition COM1005
Graphics Tools COM1035

Students select a focus for the other three Modules:
Animation
Animation 1 COM1145
Animation 2 COM2145
Animation 3 COM3145
Photography
Photo Introduction COM1205
Digital Processing 1 COM1275
Exposure COM1215
Videography
Media COM1015
Audio/Video COM1105
Av Preproduction1

Photo 20 (5 credit)
Course Fee: $40.00
Learning how to freeze a moment in time that creates a sense of wonder in people. Snap a photo that gets a thousand likes or capture an image that causes people to think.

Photo 30 (5 credit)
Course Fee: $40.00
Your skills as a photographer will be pushed to show how brilliant your photos can be. Learn how to use lighting kits, multiple lenses, full frame cameras and proper editing techniques.

Video 20 (5 credit)
Course Fee: $40.00
In this course you will further your script writing abilities, complete hands on camera work, and develop your nonlinear editing techniques (Adobe master collection & Final Cut Pro X) while using GoPro, Glidecam, Ronin, and high-end video cameras.

Video 30 (5 credit)
Course Fee: $40.00
Expand and develop mini pieces as you work towards your main capstone video project. Management of time is essential.
Fitness

Fitness 20, 30 (5 credits each)
Course Fee: $20.00
Fitness provides students with opportunities to further develop their physical fitness and provides an advantage to those who want to participate in competitive sports. Course work includes cardiovascular, muscle fitness, flexibility training, fitness testing and fitness theory and nutrition. This is an activity-based course and requires daily participation and proper active wear in order to be successful.

Fitness – Powerlifting (5 credit)
Course Fee $20.00
If you are an athlete with the desire to bring your game to the next level, or a person that just wants to be more athletic, then Power Lifting is the course for you. With power development comes speed and with speed one can out play one’s opponents. Learn what the true sport of power actually is and how to train to perform at your best. This is an activity-based course and requires daily participation and proper active wear in order to be successful.

Fitness – Powerlifting 2 (5 credit)
Course Fee $20.00
This course is a continuation and refinement of the power development started last year in Fitness- Powerlifting. Students will continue to challenge their personal best while moving towards mastery of some of the basics in the sport of Olympic weight lifting.

Leadership

Leadership 10, 20, 30 (5 credits each)
Leadership is a course designed for students to give back to their school and community. Students are encouraged to enroll in this course if they desire to work with likeminded individuals, to step outside their comfort zone and engage in acts of service both in and outside the classroom setting. Student leaders will work together to improve their interpersonal and management skills, conflict resolution, public speaking and peer mentorship. Students will also be required to complete 15 hours of community volunteerism not associated with in-class activities.
Outdoor Education

Outdoor Pursuits 15 (5 credits)
Course Fee: A course fee may be applied
This activity-based course provides opportunities for in-depth practical studies and experiences. This direct approach should appeal to all students, particularly those who learn best from physical involvement. Some things that students should expect to learn would include, how to: use knives, build fires and emergency shelters, cook over a fire, use a compass and GPS, tie knots, as well as learning about some current environmental topics. Students will also get certified in first aid. Students who sign up for OP 15 should enjoy being active and be prepared to go outside in all types of weather. Overnight and day trips throughout the course provide great learning experiences, as well as providing an opportunity to showcase many of the skills that students have learned throughout the course.
WLD 1100: Outdoor Cooking Theory
WLD 1060: Wilderness Navigation
HCS 2020: First Aid/CPR/AED
WLD 1130: Outdoor Survival Skills

Outdoor Pursuits 25 (5 credits)
Course Fee: A course fee may be applied
Outdoor Pursuits 25 will build on what was learned in OP 15. This activity-based course provides opportunities for in-depth practical studies and experiences. This direct approach should appeal to all students, particularly those who learn best from physical involvement. Some things that students should expect to learn/improve would include, how to: paddle a canoe, build fires and emergency shelters, prepare food in the outdoors, , tie knots, as well as learning about some current environmental topics. Students who sign up for OP 25 should enjoy being active and be prepared to go outside in all types of weather. Overnight and day trips throughout the course provide great learning experiences, as well as providing an opportunity to showcase many of the skills that students have learned throughout the course.
WLD 2090 – Issues in Wildlife
WLD 3130 – Outdoor Leadership
WLD 3910 – WLD Project D

Science Electives

Paleontology 15 (5 Credit)
Prerequisite: Science 10 (can be taken concurrently)
Paleontology 15 is an introductory science course providing a foundation for Paleontology 25 and 35. Course topics are: the organization of past biodiversity; Earth history and life on Earth; and the ecological/evolutionary mechanisms that change the geological/biological balance on Earth.

Paleontology 25 (5 Credit)
Prerequisite: Paleontology 15
Paleontology 25, the second of three secondary paleontology courses, builds upon the fundamental understanding of the history of the Earth, established in Paleontology 15. Course topics are: an introduction to systematics and classification; a detailed exploration of evolutionary theory and theories of extinction; a detailed examination of dinosaurs as living animals; and biogeography.

Paleontology 35 (5 Credit)
Prerequisite: Paleontology 25
Paleontology 35 is the culmination of the fundamentals in paleobiology, biogeography and evolutionary theory established in Paleontology 25. As with the curriculum for Paleontology 15 and 25, Paleontology 35 proposes topics closely integrated with the Program Outcomes for Science 10/20/30 (2007), Biology 20/30 (2007/08).
Social Sciences

Psychology 20 (6 credits)
Prerequisite: NONE
In Psychology 20, students will learn about both general and personal psychology. General psychology includes material that has a practical application in everyday life. Why do people think, act and feel as they do?
Topics include:
- development of personality, attitude formation
- mental illness and treatment
- group dynamics
- motivation
- social influences
Personal psychology will give you a glimpse into the human brain. You’ll be introduced to the science of the brain as you study various branches of psychology, personality development, and perception. You also learn about general psychology concepts, including personality, behaviour, and intelligence.
Topics include
- Introduction to Psychology
- Personality Theory
- Behaviour Theory
- Intelligence
- Biological Influences on Behaviour
- Heredity and the Environment
- Understanding Perception

Philosophy of Man 30 (3 credits)
Prerequisite: NONE
*This course is generally only offered in the morning from 7:30-8:30am in Quarter 2.
Philosophy examines what philosophy is, the need for philosophy, the nature of man, how free is man and political philosophy. Philosophies of man 30 deals specifically with the following:
- to develop the process of critical examination
- to integrate or orient oneself toward the various phases of human experience
- to open up the wide range of problems and deal with vital questions of human interest
- to appreciate the attempts of great philosophers to provide coherent and consistent answers to fundamental questions
- to think about the basic foundations of one’s outlook, knowledge and beliefs
- to understand that “Man has the ability to examine his life; without that he is nothing.”

Origins of Western Philosophy 20 (3 credits)
Prerequisite: NONE
*This course is generally only offered in the morning from 7:30-8:30am in Quarter 1.
The objectives of Origins of Western Philosophy 20 are to understand the gradual unfolding of Western philosophical thought and to appreciate the approaches and accomplishments of early Western philosophies. Additionally, students will analyze the philosophical concepts, and to be aware of their implications while undertaking evaluations of various early Western philosophical thoughts and systems with the intent to developing one’s own philosophical thinking. Origins of Western Philosophy deals specifically with the following:
- What philosophy is
- The need for philosophy
- Transition from mythological understanding to philosophical reflection
- Search for an ultimate element 5. Search for a principle of order and harmony
- The problem of identity and change