## Peace River High School Registration Course Guide

Welcome!
Peace River High School is a publicly funded school that serves students from grades 9 to 12. This registration guide is designed to assist you in exploring the varied programs that Peace River High School offers. If you need more information, please contact the school at 780-624-4221.

## PLEASE NOTE: SOME COURSES IN THE COURSE GUIDE MAY NOT BE OFFERED DEPENDING UPON STAFF EXPERTISE OR LACK OF STUDENT INTEREST.

Student Services
Career/Academic Counseling
Indigeneous Student Services
Project Peace - Mental Health
Social Workers

## Course Information

Grade 9
High School (grades 10-12)
Course Load
Core Classes
Elective Courses
Half Semester Courses
High School Diploma Requirements
School Course withdrawals and transfers
Home Schooling
Off Campus Education
Registered Apprenticeship Program (RAP)
Green Certificate
Work Experience
Dual Credit Programs
Dance
Planning your Program (Senior High)
Programs at a Glance
Programs at a Glance
The Knowledge and Employability Program Information

English
Social Studies
Mathematics
Grade 10 Math
Grade 11 Math
Grade 12 Math
Science
Grade 10 Sciences
Grade 11 Sciences
Grade 12 Sciences
Physical Education
Career and Life Management (CALM)
Elective Courses
Fine Arts
3-credit Half Semester Elective Courses
Career \& Technology Studies (CTS)
Construction Technology
Physical Education 20/30:
Outdoor Education:
Foods Studies
Digital Design
Fashion Studies
Cosmetology
Robotics
Computer Science
Aboriginal Studies
Timetable Template

## Student Services

The role of student services is to serve students, parents and teachers in such a way that each student has the opportunity to be successful in his or her educational development. Student services offers the following services:

## Career/Academic Counseling

These services are offered throughout a student's 4 years at Peace River High School, starting in Health 9, Learning Strategies 10 and 11, CALM class and grade 12 success class. At any point the students are introduced to the services listed below and are frequently revisited as students move to the higher grades.

- My Blueprint - planning and information on-line system for students for scheduling, setting goals, digital portfolio and post-secondary information.
- Registration Information
- Course selections
- Program planning
- Diploma requirements
- Attendance/achievement referrals from students, parents and teachers.
- Career investigations
- Interest and Aptitude testing
- Post-secondary information
- Scholarships and Awards, student loans
- School to work transitions
- Volunteer opportunities and student exchanges.


## Indigeneous Student Services

Peace High has a designated staff liaison working in conjunction with our school division Indigenous student services coordinator to work together with Indigenous communities, elders, parents, teachers, and other education stakeholders to best meet the needs of Indigenous learners.

## Project Peace - Mental Health

Project PEACE is a school-based Mental Health Capacity Building Program funded by Alberta Health Services and Peace River School Division. The Success Coaches work to strengthen the school staff and students by providing prevention and education programming for mental health, addictions, and social and emotional learning. The belief is that mental and emotional well-being can be developed, nurtured, and supported through universal, targeted, and individual supports for children, youth, and families. A core belief underlying this type of programming is that early introduction and application of mental health wellness fosters integration and application of that knowledge so that positive mental health increases and endures across the lifespan.


Success Coaches provide universal, targeted, and supports for children, youth, and families $0-25+$ years in the areas of mental health, addictions, and social/emotional learning. Early intervention and early introduction of common language regarding mental health issues are intended to foster a dialogue that can continue across the lifespan, increasing each individual's own happiness and mental well-being. Schools are the quickest and most direct avenue for engaging children and youth with mental health concerns. An overall outcome is to generate collaborative practices among health service providers, the reduction of barriers and stigma to mental illness and mental health, and the engagement of students, partners, and community members. Positive mental health provides the foundation of learning across all domains including academics, self-regulation of emotions, relationships, family, and community involvement.

## Social Workers

Peace River School Division has two social workers covering the east and west portions of the division. The School Social Worker addresses the social, behavioural, and emotional factors, which impede a student's school performance. The social worker provides individual support to students and their families where there are complex issues that may require counseling, community agency involvement, crisis involving family support as well as situations involving mental health concerns. Referral for social work support can be accessed through discussions with success coaches and the school administration.

## Course Information

## Grade 9

Grade 9 students will be required to take 9 classes -4 classes in the first semester and 4 classes in the second semester and Health 9 all year. Of the eight classes, four of the class (core) are English Language Arts 9, Science 9, Social Studies 9 and Math 9. Every effort is made to ensure each semester has 2 core classes and two electives to balance their workload. Physical Education is mandatory and must be one of a student's 4 electives.

French Immersion students are also required to take French Language Arts 9 and thus will have choice on two electives for their school year along with PE.

## High School (grades 10-12)

Course credits: Each course is assigned a credit value (usually 3 for half semester courses and 5 credits for full semester courses). To receive credits in a course, a student must achieve a mark of $50 \%$ or higher.

Course prerequisites: Prerequisites for each course are outlined in this guide. Course standings are reported as percentages in Powerschool.

Provincial Exams: Any student who is enrolled in English 30-1 or 30-2, Mathematics 30-1 or 30-2, Social 30-1 or 30-2, French LA 30, Biology 30, Physics 30, Chemistry 30 or Science 30 must write a provincial diploma in the subject. The final mark will be a combination of the school mark ( $70 \%$ ) and the provincial diploma mark (30\%). Provincial diploma exams are written in January, June and August on a schedule set by Alberta Education. (NOTE: 10\% provincial exams are currently for the school year 2021-2022. No indication has been made by the government of Alberta if this weighting will continue for the following year.)

Course Variety: Our course offerings are as varied as possible; however, sufficient demand must exist before a section is established. You should make alternate choices for elective courses wherever possible. Students who do not successfully complete a course in the first semester may not be able to repeat it in the second semester.

## Course Load

To obtain credits, students must obtain a grade of $50 \%$ or higher in their courses in Grade 10, 11 and 12. A student must earn a mark of $50 \%$ in a course before proceeding to the next level of that course.

For example, students need to complete English 10-2 before taking English 20-2. English 10-2 is the prerequisite for English 20-2. Select your courses by determining which courses you intend to graduate with and working back to their prerequisites. For example, if you want to graduate with English 30-1, you will probably take English 20-1 in Grade 11 and English 10-1 in Grade 10.

In some courses, you are required to write diploma examinations. Your final marks in these courses are the average of the school based grade and your results on the diploma examination.

Students are required to carry the following course load:

- Grade 10 (first year of high school) students must have a full course load- no spares.
- Grade 11 (second year of high school) students should have a full course load if they have earned less than 35 credits in grade 10.
- Grade 12 students (third year of high school) with at least 70 credits on September 1st are allowed to maintain spares. It is recommended that students have at least 30 credits in their final year but emphasis should be on completing the requirements for graduation. Please check university and college requirements before you schedule spares. Spares should be used to study, complete homework and improve grades.
- Third year students who do not have 70 credits as September 1st or those who do not have passing marks grade 11 level Social Studies and English must meet with a counselor to develop an educational plan that meets Alberta High School diploma requirements.


## Core Classes

Courses in English, Social Studies, Mathematics and Science are offered at several levels.

- Courses numbered $10-1,20-1,30-1,10,20,30$ and 31 are designed primarily for students planning on entering a university or certain programs in colleges and technical schools.
- Courses numbered 10-2, 20-2, and 30-2 are designed primarily for students planning on entering certain programs in colleges, technical and trade schools or getting a job.
- Courses numbered 14-24 are designed primarily for students planning on getting a job immediately after graduation.

Your grade 9 marks are usually the best indicator of how you will start in high school; however, it is always possible, with effort, to improve them.

Elective courses offer you a chance to broaden your knowledge by studying a variety of subjects. Some elective courses will help you build skills that will help you obtain and keep a job. Approximately 25 to 35 credits of study in a particular area could provide a basis for getting a job. This includes fine arts, CTS, Phys. Ed, Second Languages and many other courses.

Science and Math courses at a 30 level can be considered to be elective courses. Make sure to check and see if the post-secondary school you are planning on attending requires all 3 sciences and a math. Often this is not the case unless you are planning on taking engineering or medicine.

## Half Semester Courses

Peace High will offer some courses that don't need 5 months to complete. What this means is that a student may take a course such as Psychology 20 every day for 2.5 months. At the end of the 2.5 months a new course will begin, in that same block, that also only needs 2.5 months to complete. Students choose these at registration time so there is no disruption to their school year selecting these courses. These courses are worth 3 credits each.

## High School Diploma Requirements

Students must assume responsibility to ensure they meet the requirements of the Alberta High School Diploma or Certificate of High School Achievement. If you are in doubt or have questions, please check with your success teacher or administration early in the school year in case adjustments need to be made.

To obtain an Alberta High School Diploma, a student must earn a minimum of 100 credits including the following:

- English Language Arts 30-1 or 30-2
- Social Studies 30-1 or 30-2
- Mathematics 20-1, 20-2 or 20-3
- Science 20 level (Science 20, Science 24, Biology 20, Chemistry 20 or Physics 20)
- Physical Education 10 (3 credit minimum)
- Career and Life Management (3 credit)
- 10 Credits in any combination from:
o Career and Technology Studies (CTS) Fine Arts
o Second Languages courses
o Physical Education 20 and/or 30
o Locally developed/acquired and locally authorized courses
o Knowledge and Employability courses
o Registered Apprenticeship Program 10 credits in any 30 level course
- 10 credits in any 30 -level course (in addition to a 30 -level ELA and 30-level Social Studies courses as specified above)
o 30-level locally developed courses
o Advance 3000 level CTS courses
o 30-level work experience
o 30-level Registered Apprenticeship program courses
o 30-level green certificate specialization courses
o Special projects 30


## School Course withdrawals and transfers

Students should carefully choose their courses when registering so as to keep transfer and withdrawal requests to a minimum. Students asking to transfer or withdraw classes must ensure that their timetable still meets the minimum requirements for their grade. Students may transfer courses in the first two weeks of each semester, after consultation with their success teacher and administration.

Students who are failing a course at the mid-term point should discuss their situation with their teacher and their parents. Students may drop a core course only with parental/guardian approval, and only if the student can still meet the program requirements listed above. This may mean enrolment in an Alternative education course or CTS course. A "W' for withdrawal for courses or an INC for incomplete CTS courses will appear on the students' transcript. Students should not drop a class if they intend on taking the course in the next semester or next year. Students are encouraged to repeat the course to improve their mark.

## Home Schooling

Students who wish to receive their full education at home may do so through the Peace River School Division. Peace River School Division has an Alternative education program with a full time coordinator to help students and parents through the process of setting up a homeschool program. Parents should contact the principal of the alternative education program to register their student. Families will work with the home school coordinator to determine the best program that will work for their situation. Home education students also have access to school resources such as the library, extra-curricular activities and counseling services, within normal operating procedures.

## Off Campus Education

Grade 11 and 12 students can take courses that require time spent on work sites in the community. These can be during school time or outside of school time, depending on the situation. Credits are based on the number of hours spent at the work site ( 25 hours $=1$ credit). Evaluations are based on the student's success at work as determined jointly by the employer and the supervising teacher. Refer to the sections on the Registered Apprenticeship program, Green Certificate program and Work Experience program.

## Registered Apprenticeship Program (RAP)

The Registered Apprenticeship Program is an apprenticeship program that permits high school students to become a first year apprentice and receive credits towards earning their Alberta High School Diploma while attending high school. RAP Students generally find their own apprenticeship (possibly including family or friends as employers). Arrangements are made with the RAP coordinator to have their program formalized. Students must maintain a passing average in all courses and be progressing at a reasonable rate to graduate. The RAP apprentice is a full-time high school student. A RAP apprentice accumulates hours of on the job training as credit toward a high school diploma. Students may begin the process of entering RAP in Grade 10. It is recommended that students who wish to take RAP in Grade 11 and 12, take CALM 20 in Grade 10. Placements are also found through Careers the Next Generation organization.

## Green Certificate

The Green Certificate Program provides trainees with opportunities to enter a variety of agriculture-related, structured learning pathways as a part of their senior high school program and to earn up to 16 Grade 12 diploma credits and a credential leading to a career in agribusiness.

Students learn on the job, under the direction of experienced farm personnel and under the supervision and administration of Alberta Agriculture and Forestry (AF) and Alberta Education. Trainee's select one of the specializations and under the guidance of their trainer, work towards mastering all skills with their training program. Specializations include beekeeping, cow calf beef, dairy, equine, feedlot beef, field crop, greenhouse, irrigated field crop, poultry, and sheep and swine production.

Participants must be at least 15 years of age and in at least Grade 10 to apply.

## Work Experience

Work Experience 15-25-35 are separate courses for credit that provide experiential learning activities undertaken by a student as an integral part of a planned school program under the cooperative supervision of an off-campus education coordinator.

Work experience courses also provide opportunities for the school and its community to combine resources to further the student's personal development, career planning and employability skills through placements in off-campus work stations or work sites.

Students may earn up to 30 credits in work experience, but the number of work experience credits that may be counted toward the Alberta High School Diploma is 15. HCS3000: Workplace Safety Systems is the required prerequisite of work experience taken by a student.

## Dual Credit Programs

Dual credit allows students to personalize their high school experience and build on or discover their career passions and interests.

Dual credits helps Grade 10, 11, or 12 students earn high school and post-secondary credits that can count towards a post-secondary certificate, diploma, or degree, including first year apprenticeship opportunities.

Dual credit opportunities span a variety of industries and professions including health care, trades, agriculture and business administration.

Peace River School Division has built opportunities for students to take courses from our local colleges - Northern Lake College and Northwestern Polytechnic (formerly GPRC). In Peace River, students have the opportunity to take the Health Care Aide program or the Fourth Class Power Engineering course from Northern Lake College. If you are interested in finding out more information, please contact the administration at Peace River High School

## Dance

Dance 15/25/35 (5 credits each): This dance class will provide opportunities for students who would like to pursue dance beyond the Alberta Physical Education Program of Studies. It also offers students the opportunity to study dance as an integral part of fine and performing arts programs. This course series is intended to provide students with the foundations of dance. It is designed to foster in students an understanding and appreciation of, curiosity about, and a lifelong interest in dance. It is also designed to expose learners to a broad range of artistic and aesthetic experiences from a variety of dance genres and traditions.

In Dance 15-25-35, students will have the opportunity to develop:

- physical, social and emotional skills;
- technical proficiency;
- contemporary and historical appreciation; and
- positive self-concepts

The outcomes for the dance program will be covered by a student's participation and instruction from qualified instructors through the student's involvement with a Dance society. Students must be registered with a dance society and participate on a regular basis throughout the dance season.

## Planning your Program (Senior High)

## Step 1: Know Your Needs and Goals

Students registering in high school should have an educational goal in mind so that choosing courses is a meaningful process. If educational goals are not defined, students should register in the highest level of academic courses in which they can succeed. Students should try to choose high school courses which reflect their junior high achievement. Thinking ahead helps you plan better!

Academic Programs (opens all doors if marks are high enough)

| Junior High Marks | High School Program | Educational Goal |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { Recommended } \\ & >60 \% \end{aligned}$ | Academic Program: 10, 20, 30 Courses | University |
|  |  | College |
|  |  | Technical Institute |

General Programs (some restrictions for post-secondary entrance will apply)


K\&E Courses are available to students in grades 9-12 who meet specific educational criteria. The courses are intended to provide students with opportunities to experience success and become well prepared for employment, further studies, active citizenship and lifelong learning. Knowledge and Employability Courses are designed to provide entry-level employment skills for students who have expressed a goal of leaving school before earning the requirements for a senior high school diploma. Some students may transition successfully from Knowledge and Employability Courses to other courses to achieve a senior high school diploma or to continuing education and training opportunities; e.g. some colleges, and apprenticeship programs. Reviewing each student's learning plans on an annual basis and adjusting their goals and courses as needed are important parts of the process.

## Steps 2: Know Your Graduation Requirements

Students planning on graduating must complete the requirements for either an Alberta High School Diploma or Certificate of Achievement. It is the student's responsibility to ensure that they do meet these requirements prior to their graduation ceremony. Note: A high school diploma does not necessarily grant admission to post-secondary institutions. Be aware that there are a variety of entrance requirements for post-secondary institutions and students should plan programs accordingly. Information regarding post secondary requirements is available at Student Services.

## Step 3: Understanding How Credits are Awarded

You earn the credits attached to a high school course by obtaining a mark of $50 \%$ or higher. You have the option of repeating the course to earn a higher mark but credits are granted only once for any course.

Retroactive Credits: Students who achieve a mark between $40-49 \%$ may continue at the next grade level in the lower program route with the approval of the school Principal. In these cases, students who successfully complete the next grade level course will earn credit for the course taken and for its normal prerequisite. For example if you had a mark between $40-49 \%$ in English 20-1, you could take English 30-2, and if you passed that course you would earn retroactive credits for English 20-2.

## Step 4: Planning Considerations

1. Prerequisite Standing: Courses are arranged in sequences such as Social Studies 10-1, 20-1, $30-1$. A student must achieve a mark of $50 \%$ or higher in order to take the next course in a sequence. Note: The Recommended Mark in the 10-20-30 sequence to move to the next course level is $60 \%$ or better.
2. Diploma Courses: There are provincial examinations in ELA 30-1 and 30-2, Mathematics 30-1 and 30-2, Biology 30, Chemistry 30, Physics 30, Science 30, and Social Studies 30-1 and $30-2$. Students taking these courses must write the diploma exam, which will count for $30 \%$ of the final mark in that course.
3. Grade 10 Course Entrance Criteria- High School programs recognize and accommodate the wide range of developmental needs, abilities, and differences that exist among students. In order to be successful in high school, Grade 9 students are expected to meet the criteria outlined in the course sequences provided in this guide. Please refer to each core section to ensure that you fully understand what requirements are needed in order to enroll in specific courses. Prerequisite requirements may be waived by the Career Counselor or the Principal on the recommendation of the sending school, under special circumstances, and/or in response to an appeal from a student and his/her parents. These judgments will be made on an individual basis.

## Programs at a Glance

Please take the time to plan your high school years. Your teachers, parents, Student Services or principal can tell you more about planning your future with a specific goal in mind. This planner is for students in regular programs. Students in the Knowledge and Employability Program will work with I-coaches at Peace High to arrange their schedules.

## Required High School Diploma Courses

Grade $10 \quad$ Credits $\quad$ Grade $11 \quad$ Credits $\quad$ Grade $12 \quad$ Credits

| English |
| :--- |
| ELA 10-1 |

## Social Studies

| SS 10-1 | 5 | SS 20-1 | 5 | SS 30-1 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| SS 10-2 | 5 | SS 20-2 | 5 | SS 30-2 | 5 |

## Mathematics

| Math 10C | 5 | Math 20-1 | 5 | Math 30-1 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | Math 20-2 | 5 |
| Math 30-2 | 5 |  |  |  |  |


| Math 10 Prep | 5 |
| :--- | :---: |


| Math 10-3 | 5 | Math 20-3 | 5 | Math 30-3 | 5 |
| :--- | :---: | :--- | :--- | :--- | :--- |

## Sciences

| Science 10 | 5 | Science 20 | 5 | Science 30 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Biology 20 | 5 | Biology 30 | 5 |  |
|  | Chemistry 20 | 5 | Chemistry 30 | 5 |  |
|  | Physics 20 | 5 | Physics 30 | 5 |  |
|  |  |  |  |  |  |


| Science 14 | 5 | Science 24 | 5 |
| :--- | :--- | :--- | :--- |

## Physical Education

| PE 10 | $3-5$ |
| :--- | :---: |

## Career \& Life Management

| CALM 20 | 3 |
| :--- | :--- |

Keep the following in mind: To graduate you need the following programs as a minimum requirement for graduation and only equates to 56 credits. The remaining credits will be earn through elective courses.

## Programs at a Glance

Students enrolled in the K \& E High School Certificate of Achievement Program will have the majority of their program planned for them.

## Required High School Certificate of Achievement Courses

| Grade 10 |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Credits |  |  |  |  |  |  | Grade 11 | Credits | Grade 12 | Credits |
| English |  |  |  |  |  |  |  |  |  |  |
| ELA 10-2 |  |  |  |  |  |  |  |  |  |  |

Social Studies

| SS 10-2 | 5 |  |  |
| :--- | :--- | :--- | :--- |
| SS 10-4 | 5 | SS 20-4 | 5 |

Mathematics

| Math 10 Prep | 5 |
| :--- | :---: |


| Math 10-3 | 5 | Math 20-3 | 5 |
| :--- | :--- | :--- | :--- |
| Math 10-4 | 5 | Math 20-4 | 5 |

## Sciences

| Science 14 | 5 | Science 24 | 5 |
| :--- | :--- | :--- | :--- |
| Science 10-4 | 5 | Science 20-4 | 5 |

Physical Education

| PE 10 | $3-5$ |
| :--- | :--- |

## Career \& Life Management

| CALM 20 | 3 |
| :--- | :--- |

## 5 CTS/Occupational Course at the 30 -level

## 5 credits in the following

30 -level Green Certificate
30-level Work Experience
30-level RAP
30-level K \& E Workplace Practicum Course

Keep the following in mind: To graduate you need the following programs as a minimum requirement for graduation and a total of 80 credits.. The remaining credits will be earn through elective courses.

## The Knowledge and Employability Program Information

K\&E Courses are available to students in grades 9-12 who meet specific educational criteria. The courses are intended to provide students with opportunities to experience success and become well prepared for employment, further studies, active citizenship and lifelong learning. Knowledge and Employability Courses include and promote:

- Workplace standards for academic, occupational and employability skills.
- Practical applications through hands-on and off-campus experiences and/or community partnerships.
- Career development skills for exploring careers, assessing career skills and developing a career-focused portfolio.
- Interpersonal skills to ensure respect, support, and cooperation with others at home, in the community, and in the workplace.

Knowledge and Employability Courses are designed to provide entry-level employment skills for students who have expressed a goal of leaving school before earning the requirements for a senior high school diploma. Some students may transition successfully from Knowledge and Employability Courses to other courses to achieve a senior high school diploma or to continuing education and training opportunities; e.g. some colleges, and apprenticeship programs. Reviewing each student's learning plans on an annual basis and adjusting their goals and courses as needed are important parts of the process.

## Course Sequences

Students in the K \& E program have the option of completing all of their courses in the K \& E stream, or they may take a mix of $\mathrm{K} \& \mathrm{E}$ courses and regular stream courses. Please refer to the required courses list and course sequences listed below:


Course Sequences (continued)

**Any transfer from the $\mathrm{K} \& \mathrm{E}$ courses to the regular stream courses are at the discretion of the instructor and principal.

## Core Course Sequencing

Admission Requirements for Grade 10 level Core Subjects
Student program registrations will be granted a conditional status during the spring registration, based on the verification of spring report cards. Registrations will be reviewed when final marks are available. Students registering in Peace River High School in the Grade 10 level, must provide a report card or transcript from their Junior High School which verifies levels of achievement in Language Arts 9, Mathematics 9, Science 9, and Social Studies 9. Placement in programs may be appealed to the principal by the parent or guardian. Any special conditions or requests will be reviewed in a meeting of the parent or guardian and Peace River High School administration.

## English

English is a required subject for graduation from all high school programs. Two sequences are offered:

English 10-1, 20-1 and 30-1 (academic) or English 10-2, 20-2 and 30-2 (general stream).
English $30-1$ is a requirement for most university and college programs. Please consult the career counselor for up-to-date requirements for English.

English 30-2 meets all requirements for a high school diploma and many college and technical school programs.

## Recommended averages to proceed to next level



## Social Studies

Social Studies is a required subject for graduation from all high school programs. Two sequences are offered:

Social 10-1, 20-1 and 30-1 (academic) or Social 10-2, 20-2 and 30-2 (general stream).
If a student wishes to obtain an Alberta High School Diploma, they may take either sequence but their choice should be guided by their past successes in Social Studies. Students planning to go to university should take Social Studies 30-1 as it may be required for their program and helps to develop skills students will need at university.

## Recommended averages to proceed to next level



## Mathematics

Math is divided into three streams:
Mathematics-1: Mathematics-1 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. Mathematics- 1 includes topics such as permutations and combinations, relations and functions, sequences and series, and trigonometry.

Mathematics-2: Intended for students that wish to attend a university, college, or technical institute after high school, but do not need calculus skills. Mathematics-2 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. Mathematics-2 includes topics such as relations, functions and equations, probability, statistics, and trigonometry.

Mathematics-3: Intended for students interested in learning the mathematics needed to enter most trades or the workforce after high school. Mathematics-3 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 for apprentices in most trades programs, specifically levels one to three. Mathematics- 3 includes topics such as finance, geometry, measurement, and trigonometry.

## Recommended averages to proceed to next level

Math 31


## Grade 10 Math

Math 10C ( 5 credits): The content covered for this course is Sl and Imperial units of measure and conversions, Surface Area and Volume of 3-D objects, Trigonometric Ratios and Right Triangles, Polynomial Expressions and Factoring, Irrational Numbers, Slope, Lines and Line Segments, Linear Relations, Domain, Range, Functions, and Systems of Linear Equations.

Math 10 Prep ( 5 credits): Students will earn credits for Math 10-3. Students will cover the topics in Math 10-3 and be introduced to some of the basic concepts that will be covered in Math 10C. This is intended for students in the $45 \%$ to $70 \%$ range in Math 9 that would benefit from a review of math concepts and wish to move into the academic Math 10C course.

Math 10-3 (5 credits): The content covered for this course is Sl and Imperial units of measure and conversions, Applications of Sl and Imperial units to length, area, volume, capacity, mass, temperature, 2-D and 3-D objects; Spatial Reasoning, Pythagorean Theorem, Convex Polygons, Trigonometric Ratios, Angles, Parallel and Perpendicular Lines; Currency Exchange and Income; and Manipulation and Application of Formulas.

## Grade 11 Math

Math 20-1 ( 5 credits): This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that require the study of calculus. Topics include algebra and number including radicals and rational expressions, trigonometry, relations and functions including polynomials, quadratic functions and sequences.

Math 20-2 (5 credits): This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for postsecondary studies in programs that do not require the study of calculus. Topics include geometry, measurement, number and logic, relations and functions, and statistics.

Math 20-3 (5 credits): This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into the majority of trades and for direct entry into the workforce. Topics include algebra, geometry, measurement, number, and statistics.

## Grade 12 Math

Math 30-1 (5 credits): This course is designed for students intending to pursue postsecondary studies at university or in a mathematics-intensive program at a technical school or college. Mathematics 10-20-30-1's emphasizes the theoretical development of topics from the areas of algebra, geometry, trigonometry and statistics up to a level acceptable for entry into universities and other post-secondary institutions.

Math 30-2 (5 credits): This course emphasizes the application approach to solving problems. Algebra is taught only when needed. These courses require a strong mathematical background, regular attendance and a sound work ethic. It is designed for students who require an academic mathematics program to prepare them for university programs outside the sciences, colleges, trades and employment.

Math 31 (5 credits): Math 31 is an advanced class in calculus, required for students entering physical sciences, mathematics or engineering in university and recommended for students taking sciences or commerce at the university level.

Math 30-3 (5 credits): This course is a continuation of topics started in Math 20-3 and offers an opportunity for students to further their understanding of math for application into the trades. Topics include measurement with an understanding of limitations of measurement, geometry including transformations of shapes, finance, algebra in the form of linear relations, and statistics.

## Science

A wide variety of courses are offered in the field of science. The science $14-24$ sequence offers the minimum requirements for a high school diploma. Grade 11 and 12 sciences courses in biology, physics and chemistry are required for many post-secondary programs. University entrance generally requires one science course at the 30 level. Success in the academic science streams also requires a strong background in math.

## Recommended averages to proceed to next level



Science 14 (5 credits): Science 14 is a general introductory course designed to meet the needs of students who have experienced difficulty in science and mathematics. It emphasizes the application of science to everyday life, including topics from biology, health sciences, physical sciences, and earth sciences. Particular attention is paid to the development of learning and scientific skills. Students in this course generally go to Science 24 to complete Diploma requirements. This course does not prepare students to consider Biology, Chemistry and/or Physics at the Grade 11 and 12 levels.

Science 10 ( 5 credits): Science 10 is an integrated academic course, which helps students understand and apply the fundamental concepts and skills common to biology, chemistry and physics. The key scientific concepts of energy, matter, and change are emphasized.

## Grade 11 Sciences

Science 24 ( 5 credits): The Science 24 program consists of four units, each dealing with a different aspect of Science. In Unit A, Application of Matter and Chemical Change, students expand their understanding of matter from Science 14. Emphasis is on chemical reactions that are important to today's society in meeting our personal needs. In Unit B, understanding common energy systems is studied of fossil fuels, and the distribution of electricity. In Unit C, Disease Defense and Human Health, students investigate a variety of environmental, pathogenic and genetic factors and their effects on health. Finally, Unit D, Motion, Change and Transportation Safety, looks at the laws of conservation of momentum and how they affect the design of cars, safety regulations and practices governing transportation.

Science 20 (5 credits): Science 20 is an academic course, which will follow the curriculum from Science 10. Science 20 has all the concepts and skills common to biology, chemistry and physics.

Biology 20 (5 credits): The key science themes in Biology 20 are the concepts of systems, equilibrium, energy, and matter. These concepts are continuously related and interconnected in the study of the biosphere; ecosystems; photosynthesis and cellular respiration; and human systems.

Chemistry 20 ( 5 credits): Matter and chemical change are the themes common to all units of Chemistry 20. In addition, different units also integrate knowledge and skills about the nature of science, technology, and STS issues. Scientific problem-solving skills are progressively developed along with the empirical and theoretical knowledge necessary to describe and understand chemical substances and their reactions. After a review of the chemistry from Science 10 , the following topics are studied: matter \& chemical bonding, gases, solutions and acids and bases, and quantitative relationships in chemical changes.

Physics 20 ( 5 credits): This course in physics continues the study of motion and energy using the concepts and mathematical skills introduced in Science 10.The description of motion (kinematics) is extended to vector quantities and circular motion. The study of the causes of motion (dynamics) includes Newton's Laws and mechanical energy, work, and power. The themes of energy and change continue in the introduction to mechanical waves.

## Grade 12 Sciences

Science 30 ( 5 credits): Science 30 is an academic course, which will follow the curriculum from Science 20. Science 30 has all the concepts and skills common to biology, chemistry and physics. Students must write a provincial diploma examination.

Biology 30 (5 credits): Major units of study are the nervous and endocrine systems; reproduction and development; cell division; genetics and molecular biology; and population and community dynamics. Laboratory work is included. Students must write a provincial diploma examination.

Chemistry 30 (5 credits): The scientific and technological knowledge and skills developed in the previous Chemistry 20 course are continued in the study of the Chemistry 30 core curriculum. Major topics include organic chemistry, chemical energy, electro chemistry, and equilibrium in acid-base systems. Many laboratory activities and exercises are used to develop communication and problem-solving skills. Students must write a provincial diploma examination.

Physics 30 ( 5 credits): The theories and laws developed in Physics 20 are used extensively in the study of momentum and impulse, electric and magnetic forces and fields, electromagnetic radiation, and atomic physics. Various technological applications and societal implications are integrated with the core topics throughout the course. Communication and problem-solving skills are emphasized in order to prepare students for post-secondary programs and the provincial diploma examination.

## Physical Education

Three credits of Physical Education are a requirement for an Alberta High School Diploma. Physical Education courses help to develop the foundation for active living and lifetime physical fitness. Students will be empowered to make self-motivated choices in respect to lifelong recreational pursuits and will develop a foundation of knowledge in personal fitness, wellness, and leadership. To support students who are unable to take regularly scheduled Physical Education courses, we offer elective courses that promote fitness and wellness known as sports performance.

PE 10 (3 to 5 credits): Physical Education 10 is a requirement for an Alberta High School Diploma. Physical Education courses help to develop the foundation for active living and lifetime physical fitness. Students will be empowered to make self-motivated choices in respect to lifelong recreational pursuits and will develop a foundation of knowledge in personal fitness, wellness, and leadership.

PE 20 ( 3 to 5 credits): In this course, students will continue to focus on lifetime fitness and wellness. Students will have the opportunity to experience a wide range of fitness activities, providing a base for lifetime fitness.

PE 30 ( 5 credits): Physical Education 30 may be used as a post-secondary entrance course in numerous Physical Education, Recreation, Adventure Tourism, Leisure Studies and Kinesiology Programs and Faculties. At this level, students will focus on the development of leadership and team building. Students will participate in the planning and implementation of a number of Physical Education activities.

## Career and Life Management (CALM)

CALM 20 ( 3 credits): This is a required course for all high school students to earn their Alberta High School Diploma or Certificate. It is preferred that Grade 11 students take this course in their Grade 11 year as it is more meaningful to them as they look at transitioning from high school. The Career and Life Management course is organized to assist students acquire knowledge; develop skills/strategies to make informed decisions, and to act upon them.

The course is divided into these themes:
-Study Skills: These are outcomes from throughout the course presented at the beginning of the semester to help you become better students.

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

Students in CALM class have an opportunity to earn additional credits in the form of one credits modules that support off campus learning. HCS 3000 is a required course for students to be able to participate in work experience and AGR 3000 is required for the green certificate program. Some of the modules that students may take are:

HCS 3000 - Workplace Safety Systems
HCS 3010 - Workplace Safety Practices
AGR 3000 - Agriculture Safety
CTR 1010 - Job Preparation

## Elective Courses

As outlined on programs at a glance, a minimum of 56 credits is earned by the completion of the mandatory core classes. To achieve the 100 credits required for a high school diploma, elective courses need to be completed to make up the shortfall. On campus elective courses and off campus activities can be used to earn the necessary credits. As students have different focuses for after high school, each student's program is individualized to meet those goals. Choices should be made based on student interest and need to achieve their goals in transitioning from high school. Peace River High School endeavours to offer a wide variety of elective courses to allow students to explore many different opportunities.

## PLEASE NOTE: SOME COURSES IN THE COURSE GUIDE MAY NOT BE OFFERED DEPENDING UPON STAFF EXPERTISE OR LACK OF STUDENT INTEREST.

## Fine Arts

Art 10/20/30 (3 to 5 credits each): There is often a misconception that only those that are good at creating art should take it. Art is open to all students. In this course, students will learn the "tricks of the trade", and will learn by "doing". Good artists will improve their skills. Beginning artists will learn new skills.

The art program is primarily a studio-based program where art is created through a variety of media. Students will have the opportunity to explore visual expression and establish the groundwork for artistic skills. Students will learn how to critique and evaluate their work, and the work of past/present artists. Projects change due to the availability of supplies, time and class size constraints.

In class, students can expect to learn a variety of techniques related to the following:

- Learning about the elements and the principles of art and design
- Creating three-dimensional forms (clay, paper mache)
- Drawing: pencil, pencil crayon, ink, charcoal, oil and chalk pastels, crayons, etc.
- Painting: watercolor, acrylic, gouache, and oil
- Creating work for an Art Show and other community initiatives
- Printmaking (monotype, lino ...) and so MUCH more !!!!!!

Drama 10 ( 5 credits): This is an interactive class with a focus on improvisation and acting. Other focuses explored are: Theatre-Sports, Readers' Theatre, Movement, and Speech. This fun, but structured course, builds the basic skills of each of these disciplines.

Drama 20 ( 5 credits): Drama 20 incorporates all the skill areas of Drama 10 and moves into the art of playwriting, movement, speech, theatrical productions and technical theatre.

Drama 30 (5 credits): Students will master all aspects of improvisational theatre, have a sound technical background, and will be participating in productions. The directing aspect of theatre is a major focus at this level. Students will direct plays and perform it in front of an audience.

Personal Psychology 20 (3 credits): In this course, you will study various branches of psychology, personality development, and perception. You also learn about general psychology concepts, including personality, behaviour, and intelligence.

General Psychology 20 ( 3 credits): What a curious thing the human brain is. In this course, you'll get a general overview of psychology, including its history and the psychological principles of learning and thinking. You'll also learn about stress and aggression, the influence of small groups, and the status of roles while gaining insights into neurosis and psychosis.

Abnormal Psychology 30 (3 credits): Have you ever wondered about mental illnesses and how it affects those who suffer from it? In Psychology - Abnormal 35, you'll get an overview of abnormal behaviour and mental illnesses that affect individuals in Canadian society. Learn about views of abnormality, causal factors, and types of disorders, as well as assessment, prevention, and treatment. With successful completion, you'll gain a basic understanding of the major concepts in abnormal psychology and the complicated nature of psychological illness.

Experimental Psychology 30 (3 credits): Find out how scientific experimentation informs the understanding and practice of psychology. Explore the scientific method, data display and interpretation, research ethics, research methods, and how scientific experiments are designed and carried out in the field. You'll even have a chance to conduct a practice experiment.

General Sociology 20 (3 credits): Learn about the complicated nature of societies and the interactions within them. Explore issues like group behaviour and the meaning of cultural norms, as well as deviations from those norms. Study groups, such as families and social classes, and delve into social issues such as crime rates, slavery, and illegal drug use.

World Geography 30 (3 credits): In this course, you'll be introduced to the concepts of physical and cultural geography. Discover how physical processes, weather, climate, landforms, soils, and vegetation affect the earth and its inhabitants. You'll also learn how human activities, such as industry development, land use, settlement patterns, and resource exploitation impact the environment.

World Religion 30 ( 3 credits): This course explores religion as a separate discipline to "develop a philosophy based upon values conducive to ethical and moral behaviour and reflected in an understanding of human worth." Building upon the philosophical questions surrounding faith, reason, and belief, this course introduces the 5 major world religions (Christianity, Judaism, Islam, Hinduism, and Buddhism), and aims to provide students with an understanding of the tenets and practices that are core to many of the world's faith practices.

Anthropology 30 (3 credits): Anthropology 30 studies the way of life of human beings beginning with prehistoric times. This course will focus on the socio-cultural relations between civilizations throughout the world, tools and techniques used by archaeologists when uncovering and studying archaeological sites, as well as focus on some of the most powerful civilizations and empires that have existed over time, such as the Egyptians, Romans, and Aztec peoples, their history and cultures, as well as the causes of their collapse.

Forensics Science 25 ( 3 credits): CSI anyone? Discover how evidence from crime scenes is gathered and analyzed. Explore the principles behind fingerprinting, breathalyzers, polygraphs, and DNA analysis. Apply what you learn to the analysis of real-life crimes, including the Laci Peterson murder, the infamous John Dillinger case, the Zodiac killer case, the O.J. Simpson case, the Atlanta Child Murders, and the tragic death of Princess Diana.

Forensics Science 35 ( 3 credits): Take your knowledge of crime scene investigation further as you learn about forensic anthropology, entomology, and toxicology; ballistics; police protective equipment; police dogs; arson investigation; and criminal profiling. Analyze real-life crime cases, including the Romanov remains, the Washington sniper shootings, Clifford Olson, Ted Bundy, and Jeffrey Dahmer.

## Career \& Technology Studies (CTS)

Career and Technology Studies is a program developed by Alberta Learning encompassing Business Education, Home Economics, Industrial Arts, Practical Arts and Vocational courses. CTS is divided into clusters that contain courses. CTS is modular in nature and students who enroll in a CTS course are actually taking many courses rather than one lengthy course. One course successfully completed equals one credit. The passing mark is $50 \%$. During the course the students may complete 5 or more of these one credit courses (but not limited in number).

Courses are organized into three levels- introductory (1000's), intermediate (2000's) and advanced (3000's). Specific courses are prerequisites for other courses within and across the three levels.

## Construction Technology

Introductory Level: This class teaches the terminology, tools and processes common in building systems and manufacturing systems. The emphasis will be building construction with other courses involving individual woodworking projects. At least five credits will be completed in the course or more, such as:

```
CON 1010 Basic Tools and Materials
CON 1070 Building Construction
CON 1120 Project Management
CON 1130 Solid Stock Construction
CON 1140 Turning Operations
CON 1160 Manufactured Materials
CON 2130 Furniture Making I
CON 2200 Product Development
```

Intermediate Level: This class teaches the fundamentals of cabinetry, furniture making and carpentry. An extension of the basic courses, students will continue to develop safe practices and skills which are in high demand in the workplace. Students in consultation with the instructor will complete at least 5 of these courses:

CON 2040 Framing System I
CON 2050 Roof Structures I
CON 2060 Exterior Finishing
CON 2120 Multiple Materials
CON 2140 Furniture Making II
CON 2150 Finishing and Refinishing
CON 2160 Cabinet Making I
CON 2170 Cabinet Making II
Intermediate/Advanced: This is a project-based class for students who have completed Construction Technology 2. Students will be expected to complete a minimum of 5 courses at the intermediate and/or advanced level in Construction Technology. Students will have some choice in what area they want to specialize in.

## Fabrication (metals)

Fabrication is an introduction to metal forming, welding and machining processes. Cutting, filing, drilling and machining will be done using hand tools, lathes and milling machines. Welding is an introduction to multi-pass SMAW (stick) and GMAW (MIG) welding processes along with oxyfuel and plasma cutting. Students can expect to develop specific skills and complete projects.

Credits students can earn are:
FAB 1010 Fabrication, Tools and Materials
FAB 1048 Semi Automated Welding
FAB 1050 Basic Electric Welding
FAB 1100 Fabrication Principles
FAB 1110 Bar \& Tubular Fabrication
FAB 1130 Principles of Machining
FAB 2048 Flux Core Arc Welding 1
FAB 2050 Arc Welding 1

## Mechanics

Mechanics is an introduction to the mechanical workings of engines and vehicles. Students will learn about the maintenance and repair of the mechanical components and the repair of body panels and paint. Some of the modules to be completed are as follows.

MEC 1015: Mechanics Tools \& Materials
MEC 1020: Vehicle Service \& Care
MEC 1040: Engine Fundamentals
MEC 1130: Mechanical Systems
MEC 1150: Ride \& Control Systems
MEC 1170: Metal Forming \& Finishing
MEC 1190: Surface Preparation 1
MEC 2010: Vehicle Detailing
MEC 2020: Vehicle Maintenance
MEC 2190: Surface Preparation 2
MEC 2200: Refinishing 1
MEC 2210: Touch Up \& Finishing
MEC 3010: Buying \& Selling Vehicles

## Personal Fitness

Sports Performance: Students will apply basic training and movement principles to health-related and performance-related components of fitness training and will create fitness activities and develop a basic individual fitness plan to achieve goals. You will also discuss group fitness trends, participate in a variety of group fitness opportunities and apply training and movement principles to analyze these trends. Finally you will explain the role of food and hydration in helping individuals achieve optimal physical performance for recreational activities and sport, creating and of course eating, yummy nutritious snacks. Finally you will look at common sports injuries and how to treat them. Students will have a number of opportunities to attend group fitness classes such as but not limited to: yoga, Zumba, aqua-size, spin biking, and group fitness. This course will give you the tools to help your overall performance in school sports or other activities you do in the community.

At least five credits or more can be completed in this course, such as:
REC 1020 Sports Injuries
REC 1030 Practical Sports Injuries
REC 1040 Foundations for Training 1
REC 1045 Group Exercise Trends
REC 2010 Nutrition for Recreation Activities and Sport
REC 2040 Foundations for Training 2
HCS 1050 Anatomy
HSS Health and Foundation Services

## Physical Education 20/30:

Through activities in the school and community, students will explore what they are capable of and improve their physical abilities. They will enjoy better fitness and well-being and an improved body image. Communicating with others, they will develop a sense of fair play and exercise their leadership abilities. Your teen will understand the importance of safe, active living for life; and they'll set goals and challenge themselves as part of an active, healthy lifestyle.

## Outdoor Education:

This CTS course provides an introduction to wildlife and ecosystems. Students may study topics on local wildlife diversity, wilderness navigation, hunting and game management theory, angling and fishing management theory, outdoor cooking theory and outdoor survival skills. This course focuses on the efforts of the participants, and those who put in the effort will have the opportunity to participate in the outdoor activities.

Introductory Modules may include:
WLD 1010: Intro to Wildife
WLD 1060: Wilderness Navigation
WLD 1080: Angling and Fishing
Management Theory
Intermediate Modules may include:
WLD 2020: Diversity of Wildlife Values
WLD 2060: Wildlife and Society

WLD 2090: Issues in Wildlife
WLD 2130: Outdoor Excursion

WLD 1020: Wildlife Diversity<br>WLD 1070: Hunting and Game Management Theory<br>WLD 1100: Outdoor Cooking Theory<br>WLD 1130: Outdoor Survival Skills

WLD 2040: Wildlife Spaces and Species
WLD 2080: Angling and Fishing Management
Practice
WLD 2100: Outdoor Cooking Practice

## Foods Studies

Foods courses offer students the opportunity to develop daily life skills and career or temporary employability skills. Individual modules consist of both practical application and theoretical learning.

Introductory Level: Foods is a comprehensive and informative course that encourages the student to investigate various methods of food preparation and service. The course is teacher directed with a focus on nutrition, safety and sanitation, multicultural aspects of food. The principles of milk and egg cookery, and the development of wholesome dishes using convenience foods are also investigated through a variety of practical labs. Students will have the opportunity to earn at least five credits from modules such as:

FOD 1010 Food Basics<br>FOD 1020 Contemporary Baking<br>FOD 2060 Milk and Eggs<br>FOD 2170 International Cuisine<br>FOD 1050 Fast and Convenience Foods<br>FOD 1040 Meal Planning 1<br>FOD 1030 Snacks and Appetizers<br>FOD 1060 Heritage Foods

Intermediate Level: The next foods course is an intermediate food studies course designed to expand on the basics and help you gain confidence and experiment with new products, techniques, etc. This is a 5 credit course for one semester. Some potential modules students will learn are:

FOD 2120 Meal Planning 2
FOD 2040 Cake and Pastry
FOD 2070 Soups and Sauces
FOD 2090 Creative Cold Foods
FOD 2130 Vegetarian Cuisine
FOD 2180 Fruits and Vegetables

## Digital Design

This program introduces design elements and principles, media analysis, and the fundamentals of photography and digital image manipulation. All students will present selections of their own work by a variety of methods which will include:

- 2D photographs and compositions
- Oral and visual digitally created presentations

Introductory Level: Beginning students will complete five or more modules from the following list:

DES 1020 The Design Process
DES 1030 2-D Design 1
COM 1005 Visual Composition
COM 1015 Media
COM 1025 Typography
COM 1035 Graphics Tools (Photoshop and Illustrator)
COM 1055 Web Design 1
COM 1205 Photography Introduction
COM 1215 Photography Exposure
COM 1275 Photography - Digital Processing
Intermediate Level: Advanced students may build their program by completing additionally challenging modules and working more independently.

COM 1105/2105/2115/2125 Audio and Video (group project)
DES 2035 2-D Design 2
COM 2015 Media Impact
COM 2025 Electronic Layout and Publishing (Yearbook)
COM 2035 Raster Graphics 1 (Photoshop)
COM 2045 Vectors Graphics 1 (Illustrator)
COM 2155 Design - Brand Identity
COM 2205 Photography - Composition
COM 2215 Photography - Communication
COM 2235 Photography - Lenses

## Fashion Studies

Introductory Level: Students learn the basics of how to operate a sewing machine and sewing techniques. Through the completion of a project of making a blanket students gain experience in the textile arts such as quilting, crochet or knitting. Modules typically completed are:

FAS 1030 Sewing Fundamentals
FAS 1190 Textile Arts
FAS 1060 Creating Accessories 1
FAS 1050 Redesign, Recycle and Restore
FAS 1080 Knitwear
FAS 1130 Construction Fundamentals 1
Intermediate Level: Students advance their skills through completing projects in a variety of modules based on personal preference. Modules typically completed are:

FAS 2080 Activewear
FAS 2100 Sewing for Others
FAS2110 Creating Home Décor
FAS2130 Construction Fundamentals 2
FAS 2160 Creating Accessories 2
FAS 2180 Creative Costuming
FAS 2190 Textile Arts 2

There are a variety of advanced level modules that students can continue to take in a third year. There are opportunities to compete in a Regional skills competition in Fashion Technology every spring.

## Cosmetology

Introductory Level: Students learn the various skills involved in the cosmetology trade. Students will work on mannequins to create various types of long hair updos involving roping, knotting and braiding techniques. In addition students will perform basic manicures and learn different nail art techniques. Students have the opportunity to demonstrate their skills at the Skills Canada competition in April. Students will complete five to six modules at the introductory Level.

COS 1010 Personal and Professional Practices
COS 1020 Long Hair Design 1
COS 2010 Long Hair Design 2
EST 1070 Manicuring 1
EST 2090 Nail Art
EST 1920 EST Project A

Intermediate Level: Students will work to advance their skills learning in the introductory level by learning more advanced roping, knotting and braiding techniques for long hair along with using styling tools for hair design. Students will continue with French manicures and progress with nail art. Students have the opportunity to demonstrate their skills at the Skills Canada competition in April. Students will complete five to six modules at the intermediate level.

```
CON 3020 Long Hair Design 3
EST 2070 Manicuring 2
EST 3070 EST Project B
COS 2910 COS Project B
EST 3070 Manicuring 3-Client Services
EST }3075\mathrm{ Pedicuring
COS 3020 Manicuring and Pedicuring - Client Services
```


## Robotics

This is a beginning course in robotics. We will be utilizing VEX EDR Robotics Design System, EasyC software. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a VEX EDR robotics. Students will work hands-on in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be built and programmed to compete in various competitions; including challenges as developed for the VEX Robotics Competition.

This course involves the following CTS Modules:
CSE1110 Structured Programming 1
ELT1010 Electro Assembly 1
ELT1130 Robotics 1
ELT1140 Robotics Applications 1
CSE1240 Robotics Programming 1

## Computer Science

In Computer Science, students will be exploring hardware, software and processes. This includes an introduction to the algorithm as a problem-solving tool, to programming languages in general and to the role of programming as a tool for implementing algorithms. We will be learning the vocabulary of Computer Science because as a science it has terms and concepts that are unique.
Computer Science 10-30 are CTS credits but Computer Science 30 can be used for University Entrance as a second science (all 5 of the 30 -level credits must be completed).

Computer Science 10
CSE 1010: Computer Science 1
CSE 1110: Structured Programming 1
CES 1120: Structured Programming 2

Computer Science 20
CSE 2010: Computer Science 2
CSE 2110: Procedural Programming 1

Computer Science 30
CSE 3010: Computer Science 3
CSE 3020: Computer Science 4
CSE 3110: Iterative Algorithm I
CSE 3120: Object-Oriented Programming 1
CSE 3140: Second Language Programming 2

## Aboriginal Studies

Aboriginal Studies 10 - It includes the study of traditions and history of Aboriginal peoples in Canada, and particularly in Alberta. Student learning outcomes provide opportunities to examine such topics as governmental structures, literature, the arts and the sciences. The four themes in Aboriginal Studies 10 are:

- Origin and Settlement Patterns
- Aboriginal Worldviews
- Political and Economic Organization
- Aboriginal Symbolism and Expression.

Aboriginal Studies 20 - The course focuses on indigenous people from a Canadian and Alberta perspective. It includes the study of policies, legislation, conflict and cultural change. The four themes in Aboriginal Studies 20 are:

- The Métis: Conflict and Cultural Change
- Treaties and Cultural Change
- Legislation, Policies and Cultural Change
- Schooling and Cultural Change

Aboriginal Studies 30 - Students will gain a greater understanding of the current issues facing Aboriginal peoples worldwide. Aboriginal Studies 30 enables students to demonstrate an understanding of the issues of Aboriginal rights and self-government, Aboriginal land claims, Aboriginal peoples in Canadian society and Aboriginal world issues. The four themes in Aboriginal Studies 30 are:

- Aboriginal Rights and Self-government
- Aboriginal Land Claims
- Aboriginal Peoples in Canadian Society
- Aboriginal World Issues.

| 8:55-10:07 | Block A |  |  |
| :---: | :---: | :---: | :---: |
| 10:12-10:59 | Success Block |  |  |
| 11:04-12:16 | Block B |  |  |
| 12:16-12:56 | Lunch |  |  |
| 1:01-2:13 | Block C |  |  |
| 2:18-3:30 | Block D |  |  |

- Each student will need a minimum of 4 cores (English, Math, Social and Science) in grade 9 - 11 .
- Grade 9 and 10 's will need Physical Education as part of their schedule.
- Grade 11's will need CALM.
- Grade 12 's will need ELA 30 and SS 30 . Their timetable must include enough courses to meet the required 100 credits for graduation.
- The rest of the timetable may be filled with a combination of elective courses.
- Success block:
o Grade 9 will have three mandatory success classes each week. One for health, and one for each of their core classes of that semester. The other two success classes are for students to seek help for their classes from their teachers.
o Grades 10-11 will have mandatory success class for their 5 credit Learning Strategies. Other mandatory classes will occur as requested by their class teachers.
o Grade 12 will have a Mandatory success class. Other mandatory classes will occur during the week as requested by their class teachers.

