CENTENNIAL HIGH SCHOOL

REGISTRATION AND COURSE INFORMATION
2014 – 2015

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IMPORTANT DATES

March 14, 2014 Final Registration – Grade 9 students
March 14, 2014 Final Registration – Grade 10 students
March 14, 2014 Deadline for Transfer Requests
June 12, 2014 Final program adjustments
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Welcome to Centennial High School!

Centennial is an amazing high school – a wonderful place to work, to learn and to grow. We offer an array of courses in all areas of High School studies. The incredible variety of high quality, excellent and exciting programs are abundant. The complete listing would include over 125 course offerings. Our academic program is robust and challenging. We offer excellence in all levels of academic programs – from our Advanced Placement (AP) and regular programs through to our Knowledge and Employability (K&E), Paced Learning Program (PLP) and dozens of other wonderful (in classroom) courses. Our school program is rich and deep in the “out of the classroom” experiences and are among the best offered anywhere: inter-school athletics, Link Crew, Student Voice, Social Justice Club, Student Leadership, two drama productions each year, music productions, ensembles, and festivals beyond number. Again, the choice is abundant.

How do I know this to be true? Aside from the busyness of the school calendar, the media recognition of the high quality of the student performances, the city championships won, the accolades and awards for both students and staff are ongoing. Students at Centennial learn in many ways, within and beyond the classroom, the shop, the lab and the gymnasium. We value all types of learning, as excellence in all areas is equally difficult and challenging.

Most importantly, we at Centennial believe that people matter. This school is a size which enables us to provide the aforementioned choices yet more importantly we are a community where each person can be and is known, making a significant contribution to learning. Our staff know the students well – and vice versa. Students can and do make important, meaningful contributions to their own learning, their own lives and the lives of others. I know this to be true from what I see, hear and read from students, their parents, the community and the general public. Recognition of the excellence of staff and students comes in the form of awards and the high percentage of scholarship winners each year. The recognition also comes from the emails, telephone calls, and letters praising, thanking and commending staff and students, for the positive difference they have had in the learning and lives of others.

We want to connect with you, through people who care about you and support your learning. We want you to feel connected, to get involved in your learning and to be successful. We want, as a community and individuals, to fulfill our school motto, “Making the World a Better Place”. One of our means of doing so is through ‘YOTES Time, as described on page 7. At Centennial High School, you can and will be successful as a learner, as a citizen, and as a person.

Dr. Matt Christison
INTRODUCTION

WELCOME TO CENTENNIAL HIGH SCHOOL
HOME OF THE COYOTES

Our aim at Centennial High School is to help students become competent, caring, productive, academically responsible young adults living in our fast-paced, global society. The information in this guide will help students plan a high school program that makes goals attainable while taking into consideration individual interests, strengths, and future plans.

The Centennial High School program consists of four dimensions: Academic Preparation; Complementary Programs; Community Experiences; Career Development.

All of the learning activities in these dimensions are brought together in the completion of a challenging high school program. Through curricular, extra-curricular and ‘YOTES Time, we work to assist students in the creation of a transition plan to successfully and intentionally enter and engage in the world of work and/or post-secondary education. Centennial’s academic programs provide a wide range of challenging courses in Math, Science, English and Social Studies. Each subject area offers a variety of courses geared to meet differing student needs and abilities. Our programs are designed to encourage students to explore their unique interests and support their personal career goals.

OUR SCHOOL

Centennial High School has a population of approximately 1800 students and is staffed by over 90 teachers. The school year consists of two five-month semesters: Semester One runs from September through January and Semester Two runs from February through June. Centennial High School offers a rich curricular program. The variety of courses offers students an opportunity to pursue interests and prepare for post-secondary opportunities and the world of work. Students at Centennial High School are also encouraged to participate in their choice of activities from a broad selection of extra-curricular programs. It is our belief that programs both in and out of the classroom support a strong sense of community and increase the opportunities for students to find greater success.

All students are expected to have their identification cards on their persons at all times.

DESIGNATED COMMUNITIES

Centennial High School serves the following communities:

Bridlewood  Lake Chaparral  Midnapore
Millrise  Shawnee Slopes  Shawnessy
Somerset  Sundance

Our school population for the 2013 – 2014 school year was 1790 students in grades 10, 11 and 12.
‘YOTES TIME

We will be utilizing a format, focus and intent for building relationship with students through ‘YOTES Time. The acronym ‘YOTES - Your Opportunities To Enhance Success – is intended to expose students to the many opportunities for success in and out of school. All students will be provided with information, presentations, career fairs, activities, et cetera to maximize the possibilities for all students. This is the role of the school and the ‘YOTES teachers: to provide as many opportunities as possible for students within a school year for successes to occur, to be engaged and enthusiastic.

Moreover, the successes are in many forms – academic, athletic, personal, social, work related, community – and are of both a commonly and personally defined nature. Student involvement in the processes and activities are essential for the development of their understandings and successes. This is the role of students and their families: to become involved, to engage in the opportunities and to participate fully all year. This means attending, being involved and sharing in every ‘YOTES Time occurrence.

Key to the inclusion of topics is the nature of the students in a particular ‘YOTES time group and the emerging needs of students at a grade level. Working as grade level teachers with the assigned Assistant Principal, teachers move back and forth between building a relationship with students and exposing students to ideas, materials and information that are opportunities for learning, growth and success. There will be many ‘homeroom like’ activities and events associated with ‘YOTES Time as a means of increasing communication and student involvement in the opportunities at Centennial. In addition to materials and content already developed, created and included, there are both essential and potential materials which at this time include:

Grade X: Successful Transition to Life in High School
Topic: Transition from Junior /Middle School Student to Successful High School Student
Topic: Transition from Being In High School to Being Highly Involved Part I

Grade XI: Success in High School
Topic: Transition from High School Student to Highly Successful Student Part I
Topic: Transition from Being In High School to Being Highly Involved Part II

Grade XII: Successful Transition to the Worlds Beyond High School
Topic: Transition from High School Student to Highly Successful Student Part II
Topic: Transition past Centennial and into Adult Relationships

‘YOTES time will occur every Friday (with some exceptions) for all Centennial students and all teaching staff for 20 minutes between period 1 and 2 midmorning Fridays
STUDENT SERVICES
Guidance and Counselling

Students are alphabetically assigned by surname to a counsellor and appointments are booked through the secretary in the Student Services Offices in T-Wing or P-Wing. Students and/or parents are encouraged to consult with a counsellor on matters such as:

1. Educational Counselling
   - Assist in choosing courses and making educational plans.
   - Address concerns about academic achievement.
   - Adjust course selections or programs.
   - High school graduation requirements.

2. Short Term Social/Personal Counselling
   - Assist students who wish to discuss personal issues which may be interfering with their school, social and/or family life.
   - Provide referrals to outside agencies when needed.

3. Financial Resources
   - Provide information to students about scholarships, bursaries and student loans.

4. Entrance Requirements, Information & Applications for:
   - Post-secondary institutions.
   - Admission exams (PSAT/SAT/ACT).
   - Summer school, correspondence courses, online courses.

THE CAREER CENTRE

The key function of Centennial High School’s Career Centre is to provide career development and employment support to students. In fulfilling this role, the Centre also provides assistance and resources to parents and teachers. All are welcome to contact the Career Practitioner anytime between 8 am and 4 pm with inquiries. Appointments are recommended but not always required, and can be made by dropping in or calling 403-256-8140, Ext. 2302. The following services are available:

**Career Planning**
- Career Coaching
- Career Assessment
- Further Education Information
- Occupation Information
- Job Shadow Assistance
- Study or Work Abroad Programs

**Employment Support**
- Job Search
- Student Job Board
- Volunteer Opportunities
- Resumes
- Cover Letters
- Employment Legislation FAQ’s
COURSE REGISTRATION GUIDELINES

The expectation for students at Centennial is to complete high school within three years. While there are exceptions, students are to carry a challenging, robust course load. This means that during the regular school year, Grade 10 students must take eight courses, Grade 11 students will have 7 courses and Grade 12 students will carry seven courses. Once students select courses, they are expected to remain in and complete those courses. Changes to programs may occur if students have failed a prerequisite course, changed their career choice, or successfully completed a course in an alternate way (i.e. summer school). Please see your Guidance Counsellor if you wish to consider registration for a course above your grade level.

REPEATING, CHANGING OR DROPPING COURSES

REPEATING COURSES
It is an expectation at Centennial High School that if a student fails a particular course he/she will retake that course during the next school year, through summer school, correspondence, or online learning. Space permitting, students may only repeat a failed course once at Centennial High School. Grade 12 students may NOT take grade 10 courses.

CHANGING COURSES
A change may occur only if it is in the student’s best interest and if adequate consultation has occurred amongst the student, teacher, counsellor, parent and administrator. Priority will be given to students who require necessary academic course adjustment (i.e. Science 14 instead of Science 10). A student may request a change if:

1. Moving classes will not overload the size of the new class.
2. Moving classes will not adversely interfere with the rest of the student’s timetable.
3. The student maintains enough courses to be considered a full-time student.
4. Changing courses will not displace another student.

DROPPING COURSES
Course withdrawals can best be avoided through careful, intentional course selection with your Guidance Counsellor. Students should not assume that they can abandon or drop a course simply because “it isn’t what they thought it would be”. However, if a student must withdraw from a course, it is in their best interest to do so as soon as possible. Waiting too long may result in a failing grade in the course which may remain on the student’s official transcript and/or a situation where it is impossible to find another placement. Students who wish to drop a course in order to pursue it in an alternate way must still maintain a full program at Centennial High School.
GENERAL GUIDELINES TO COURSE SELECTION

The information in this guide is based on our current program and may change after the time of printing. Some changes in the actual programs available may occur as a result of student requests, staffing, facility availability or Alberta Education programming changes. Check our website at: http://schools.cbe.ab.ca/b870/ for up-to-date program information.

All students should become familiar with the requirements for obtaining a High School Diploma or Certificate of High School Achievement (see pages 18 and 19 of this guide). Grade 12 students should pay particular attention to this document and ensure all requirements for the Alberta High School Diploma or Certificate of High School Achievement will be met.

Program selection should be based on a student’s current achievement, capabilities, interests, goals, teacher recommendations, and student learner characteristics. As students progress through high school, goals may change. Flowcharts in this guide for English, Social Studies, Math, and Science set out pathways for changing program levels, provided minimum requirements are met.

Students are advised to select courses carefully as the school schedule is ultimately based on students’ initial registration requests. Once the Master Timetable is completed, change is difficult, if not impossible.

GRADE 10 STUDENTS

Compulsory Courses – Grade 10
Every grade 10 student must register for the following five courses: English, Mathematics, Physical Education, Science and Social Studies. In English, Mathematics, Social Studies and Science, there are up to three different levels of courses from which to choose. Teachers and counsellors will recommend the level in which students should register according to their ability and achievement in that subject area. Students are expected to register for the levels that have been recommended. The following chart is a guideline for selecting academic courses. High school credit for courses completed in junior high school must be compliant with Alberta Education expectations, and will be individually assessed.

Course level changes may be made by a Guidance Counsellor if your marks differ between the time of registration and school start-up in September.
# Academic Courses

## Connecting Learner Outcomes to High School Course Selection: Recommendations

The following is a guideline for use when selecting courses for ALL students entering high school, especially those whose grade 9 schools use Educational Learner Outcomes and/or descriptions rather than final marks (percentages). The recommendations are based upon supporting student success in courses and throughout high school. **Please complete the chart below for each academic subject, using present school comments and descriptions, and then refer to the Recommendations on the following page.**

<table>
<thead>
<tr>
<th>Learner Characteristic as demonstrated by this student in this subject area (English, Math, Science, Social)</th>
<th>Exceptional and/or Beyond All Expectations</th>
<th>Very Consistent and/or Meets All Expectations</th>
<th>Inconsistent and/or Meets Some Expectations</th>
<th>Not Yet Developed and/or Not Present</th>
</tr>
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<tbody>
<tr>
<td>Strong literacy skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Perseverance and willingness to actively engage in learning</td>
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<tr>
<td>Completion of assignments and course work</td>
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<tr>
<td>Strong work ethic</td>
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<tr>
<td>Takes creative risks</td>
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<tr>
<td>Personal maturity and responsibility</td>
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<tr>
<td>Passion for learning</td>
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<tr>
<td>Practices skills in and out of classtime</td>
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<td></td>
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<tr>
<td>Preparation for tests, quizzes and examinations</td>
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<td></td>
<td></td>
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<tr>
<td>Study habits and attendance</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Learns from failure</td>
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<td></td>
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<tr>
<td>Works well independently inside and outside of school</td>
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<tr>
<td>Time management skills</td>
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<tr>
<td>Seeks out additional help, support and resources for learning</td>
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<tr>
<td>Strong numeracy skills</td>
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</tbody>
</table>
### Academic Courses

**Recommendations for Course Selection:** please refer to the recommendations for each core academic area in the chart below. Percentages are presented in a chart at the bottom of the page.

<table>
<thead>
<tr>
<th>Learner Characteristics and Course Connections</th>
<th>All or almost all responses Exceptional</th>
<th>All or almost all responses Consistent</th>
<th>All or almost all responses Inconsistent</th>
<th>All or almost all responses Not Yet – Not Developed</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English 10-1AP or English 10 - 1</td>
<td>English 10 - 1</td>
<td>English 10 - 2</td>
<td>English 10 - 4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Math 10C AP or Math 10C</td>
<td>Math 10C</td>
<td>Math 10 - 3</td>
<td>Math 10 - 4</td>
</tr>
<tr>
<td>Science</td>
<td>Science 10AP or Science 10</td>
<td>Science 10</td>
<td>Science 14</td>
<td>Science 10 - 4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Social 10-1 AP or Social 10 - 1</td>
<td>Social 10 - 1</td>
<td>Social 10 – 2</td>
<td>Social 10 – 4</td>
</tr>
</tbody>
</table>

Parents and students with specific questions or for those whose responses range across the table should make an arrangement to speak with a Guidance Counsellor regarding those specific and individual learner questions, issues or inquiries.

*10-4 level Knowledge and Employability courses will be chosen in consultation with the student, Parent/Guardian, and Teacher*
Within the students’ program, blocks are available for complementary courses. In each of those blocks students may choose to do one complementary course. These courses should be chosen from the following list of five credit courses. Descriptions of all courses can be found in a later section of the guide. **ALL grade 10 students must register for three complementary courses and maintain a minimum of 40 credits at Centennial High School (i.e. they must be enrolled in 4 courses per semester)**

**Grade 10 Complementary Courses**

**Second Languages**
- 1093 French 10 (5 credits)
- 1345 Spanish 10 (5 credits)
- 2093 French 20 (5 credits)

**Physical Education**
- 1448 Sports Performance 10 (5 credits)
- 1813 Sports Medicine 10 (5 credits)
- 1126 Student Leadership 10 (5 credits)

**Humanities**
- 1269 Creative Writing 15 (5 credits)
- 1444 Film Studies 15 (5 credits)
- 1696 Journalism 15 (5 credits)
- 2167 Military History 15/25 (6 credits)
- 1222 Pre Engineering 15 (5 credits)

**Science**
- 1800 Outdoor Environmental Science 10 (12 credits)

**Fine Arts**
- 1059 Advanced Ceramics 15
- 1067 Advanced Sculpting 15
- 1402 Advanced Drawing 15 (5 credits)
- 1405 Advanced Painting 15 (5 credits)
- 1400 Art 10 (5 credits)
- 1414 Concert Choir 15 + 1420 Choral Music 10 (10 credits)*students must take both
- 1410 Drama 10 (5 credits)
- 1424 Music 10 Beginners (5 credits)
- 1425 Music 10 + 1439 Symphonic Band 15 (10 credits)*students must take both
- 1433 Vocal Jazz 15 (5 credits)
- 1431 Jazz Band 15 (5 credits)
- 1979 Musical Theatre 15 (5 credits)
- 1987 Technical Theatre 15 (5 credits)

**Career and Technology Studies (CTS)**
- 1090 Software Applications 10 (5 credits)
- 1080 Computer Science 10 (5 credits)
- 1110 Wood Technology 10 (5 credits)
- 1045 Fashion Studies 10 (5 credits)
- 1020 Cosmetology 10 (5 credits)
- 1030 Design Studies 10 (5 credits)
- 1000 Foods 10 (5 credits)
- 1070 Financial Management 10 (5 credits)
- 1060 Business 10 (Marketing) (5 credits)
- 1040 Multimedia 10 (5 credits)
- 1085 Introductory Robotics 10 (5 credits)

**GRADE 11 STUDENTS**

Two primary concerns should govern the selection of courses:

1. To ensure eligibility for a High School Diploma or Certificate of High School Achievement.
2. To meet entrance requirements for further study at post-secondary institutions.

Check the post-secondary requirements of the institutions that are being considered and remember to verify the High School Diploma or Certificate of High School Achievement requirements.

Students may select courses from grade 11 and, if space permits, courses from grade 10 offerings.

Students must be enrolled in 7 courses out of 8 over the course of the school year.

RAP students must be enrolled in a minimum of 1 course/semester in addition to RAP.

Work Experience students must be enrolled in 3 courses per semester + Work Experience.
GRADE 12 STUDENTS

Two primary concerns should govern the selection of courses:

1. To ensure eligibility for a High School Diploma or Certificate of High School Achievement.
2. To meet entrance requirements for further study at post-secondary institutions.

You must be registered for and participate in courses in 7 of the 8 course blocks.

In order for any grade 12 student to have a spare the student must have a minimum of 78 credits and be registered at Centennial in all courses needed to meet Alberta Education’s graduation requirements.

RAP students must be enrolled in a minimum of 1 course/semester in addition to RAP.

Work Experience students must be enrolled in 3 courses per semester + Work Experience.

Grade 12 students will not be permitted to take a grade 10 course.

GENERAL INFORMATION & RECOMMENDATIONS

1. Students should include a variety of exploratory complementary courses in their Program of Study for grades 10 through 12. Specialization is often better left to post-secondary study. NOTE: For some post-secondary entrance requirements, one or more complementary courses may be used.

2. Post-secondary entrance requirements should be considered beginning in grade 10. If an admission standing of 80% is required, students should strive for at least an 80% average in grade 10 and 11, not just in grade 12. Courses tend to become more difficult in senior grades.

3. In general, students requiring time beyond their grade 12 year to complete or upgrade diploma requirements will be directed to CBe-learn or Chinook Learning Services to continue their education.

4. Course withdrawals are discouraged, so students should plan their program carefully. Withdrawals from courses will be dealt with on an individual basis and may result in a failing grade. Students have 10 days at the beginning of school start-up in September and 5 days at the start of Semester 2 to make any necessary changes to their course load.

5. Repeating a course will not be allowed in the same school year. For this reason, it is important that students work hard at successfully completing their courses the first time. Students will not be allowed to repeat a failed course more than once, or to upgrade.

6. Students wishing to enroll in a course against a teacher’s recommendation must complete a
“Request to Enroll Against Teacher Recommendation” form. Forms must be initiated by the student and are available from the school website or Guidance Office.

7. In general, students will take courses at their grade level. Students may apply to take courses above their grade level providing they meet the following criteria:

   a. They have achieved a mark of 80% or above and have a teacher recommendation in the prerequisite course.
   b. There is space available in the course.
   c. The program or course desired supports the students’ learning goals and plans.

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**Course Offerings and Availability**

On occasion, the number of students selecting or being able to fit a particular course into their timetable is very limited (fifteen or fewer students). In such cases, we are unable to offer the course as a part of our regular timetable and adhere to the provincially mandated class size average for high schools. Wherever and whenever possible, we will direct students to take the desired course through Chinook Learning Services, CBe-learn or other course offerings. Further information about such courses and their availability can be obtained through Guidance or an Administrator.

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**PARENT/GUARDIAN NOTICE OF PROGRAM OF STUDY CONTENT**

Aboriginal Studies 10 (religion), Career and Life Management (CALM) (human sexuality) and CTS Human & Social Services (HSS1040) - Developing Maturity & Independence (human sexuality) contain units dealing with religion and human sexuality. In compliance with the Alberta Human Rights Act, parents will be provided with a notice of the specific course content (including instruction, instructional materials and exercises) and an exemption form for your consideration prior to the delivery of the instruction of these units.

As the overall subject matter of Religious Ethics 20, Religious Meanings 20 and World Religions 30 primarily and explicitly deals with religion and as the overall subject matter of CTS Health Care Services (HCS3050) – Reproduction & Readiness for Parenting primarily and explicitly deals with human sexuality, it is assumed that parents and independent students signing the registration form are permitted such instruction. Please be notified of the content of the instruction in these courses and that the Alberta Human Rights Act permits you as a parent/guardian to request in writing that your child be exempted from this instruction if you so elect. Making this request will require that your child withdraw from these courses entirely. He/she may elect to take other courses with no academic penalty.
Centennial High School policy regarding ANY Students REQUESTING a reduced course load

Clarification regarding students seeking a “spare”, “two spares” or more correctly, students seeking to be enrolled in fewer than eight (8) five credit courses for their grade XI and/or grade XII school year:

- This is a REQUEST only: students are ASKING if a “spare” is EDUCATIONALLY valid; students are NOT entitled to “spares”
- Our focus is on enrolling students in the appropriate number and level of courses such that each individual completes high school within six semesters, three school years
- This focus extends to provide the opportunities possible for students to earn 100 credits, in the required areas as set out by Alberta Education for high school graduation
- IF the above conditions CAN be met AND the student has a physical PLAN showing the course selections for grade XI AND grade XII, THEN a Guidance Counselor will assist the student in enrolling in seven (7) courses in grade XI and/or grade XII
- ALL students MUST include in their plan details of a safeguard, a backup plan SHOULD she/he fail a course, need to alter the plan or otherwise add courses to complete high school
- Students who wish to be enrolled in six (6) courses MUST write a letter to her/his Assistant Principal with details of the REQUEST for a reduced course load
- The REQUEST for a reduced course load is NOT linked to a location of a specific period or the timeslot of a SPARE
- The reasons and rationale for the reduction in course load, for students in grade XI and grade XII is NOT under scrutiny or judgment by Guidance Counsellors or Administration; rather, the EDUCATIONAL appropriateness of the REQUEST is our focus.

Matt Christison, EdD
Principal
GENERAL COURSE INFORMATION

What Are Credits?
1. Credits are received for successful completion of a course (minimum mark of 50%).

2. A course taken for a full semester earns 5 or 6 credits.

3. CTS classes are composed of a number of individual courses (usually 5 per class). Each course is equal to one credit. Many students are able to earn more than 5 credits if they work hard. Some students will earn only 1 or 2 credits if they choose not to work effectively in class.

4. Credits can be earned only once in any one course.

Course Numbers
- Grade 10 courses begin with the number 1 or Introductory i.e. 10, 14, 15, 15/25, etc.
- Grade 11 courses begin with the number 2 or Intermediate i.e. 20, 24, 15/25, 25/35, etc.
- Grade 12 courses begin with the number 3 or Advanced i.e. 30, 35, 25/35, etc.

What is a Prerequisite?
A prerequisite is a course that must successfully be completed before students can proceed to the next level. For example, students must pass English Language Arts 10-1 with a minimum mark of 50% before they can take English Language Arts 20-1.

What is a Recommendation?
It has been found that if a student does not have the minimum recommended mark the student will have difficulty successfully completing the objectives of the course. It may not be possible to switch to a lower level at a later date. The minimum recommended mark exists as a guide for students to select courses appropriately. Students are strongly encouraged to follow teacher recommendations to help ensure success in the subsequent course.

What are Course Sequences?
Courses numbered 10, 10-1, 20, 20-1, 30, 30-1 are academic courses leading to university entrance. Those numbered 10-2, 20-2, 30-2, or 14, 24 are less rigorous and lead to many college and technical programs. Both of the previous two sequences can lead to an Alberta High School Diploma. Courses numbered 10-4, 20-4 or 30-4 are Knowledge and Employability courses and lead to a Certificate of High School Achievement.

What is the difference between diploma exams and final exams?
Many courses have final examinations at the end of the course to evaluate how well the student is able to use all the information covered in the entire course. Final exams are created by the teachers in our school and are weighted into the student’s final course mark. Teachers must indicate the weighting of the final exam on their course outline at the beginning of the semester.

Diploma exams are created and marked by teachers under the direction of Alberta Education. Students will receive their final marks at their home address via Canada Post directly from Alberta Education 1 to 2 months after they write the diploma exam. Diploma exams are administered in the school on a set schedule under strict guidelines and are worth 50% of the total mark for the course.
### GRADUATION REQUIREMENTS

**ALBERTA HIGH SCHOOL DIPLOMA GRADUATION REQUIREMENTS (ENGLISH)**

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/or specialized programs may require additional and/or specific courses.

<table>
<thead>
<tr>
<th>100 CREDITS including the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGLISH LANGUAGE ARTS – 30 LEVEL</strong></td>
</tr>
<tr>
<td>(English Language Arts 30-1 or 30-2)</td>
</tr>
<tr>
<td><strong>SOCIAL STUDIES – 30 LEVEL</strong></td>
</tr>
<tr>
<td>(Social Studies 30-1 or 30-2)</td>
</tr>
<tr>
<td><strong>MATHEMATICS – 20 LEVEL</strong></td>
</tr>
<tr>
<td>(Mathematics 20-1, 20-2, or 20-3)</td>
</tr>
<tr>
<td><strong>SCIENCE – 20 LEVEL</strong></td>
</tr>
<tr>
<td>(Science 20, Science 24, Biology 20, Chemistry 20 or Physics 20)</td>
</tr>
</tbody>
</table>

**PHYSICAL EDUCATION 10 (3 CREDITS MINIMUM)**

**CAREER AND LIFE MANAGEMENT (3 CREDITS)**

<table>
<thead>
<tr>
<th>10 CREDITS IN ANY COMBINATION FROM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Career and Technology Studies (CTS)</td>
</tr>
<tr>
<td>• Fine Arts</td>
</tr>
<tr>
<td>• Second Languages</td>
</tr>
<tr>
<td>• Physical Education</td>
</tr>
<tr>
<td>• Approved Locally Developed/acquired and Locally Authorized Courses in CTS, Fine Arts, Second Languages, Knowledge and Employability or IOP occupational courses</td>
</tr>
<tr>
<td>• Knowledge and Employability or IOP occupational courses</td>
</tr>
<tr>
<td>• Registered Apprenticeship Program</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 CREDITS IN ANY 30-LEVEL COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(IN ADDITION TO A 30-LEVEL ENGLISH LANGUAGE ARTS AND A 30-LEVEL SOCIAL STUDIES COURSE AS SPECIFIED ABOVE)</td>
</tr>
</tbody>
</table>

These courses may include:

- 35-level Locally Developed/acquired and Locally Authorized Courses
- 3000 Series; Advanced Level in Career and Technology Studies Courses
- 35-level Work Experience
- 30-4 level Knowledge and Employability course or 36-level IOP course
- 35-level Registered Apprenticeship Program
- 30-level Green Certificate Specialization

**NOTE:** Locally Developed courses count towards your overall number of credits but may or may not be accepted towards the 10 credit Option Requirements from CTS, Fine Arts, Second Languages or PE 20/30. According to Alberta Education, Locally Developed courses do not fall within the specified categories and are not currently accepted towards the 10 credits required in CTS, Fine Arts, Second Languages or Physical Education:

- Creative Writing
- Film Studies
- Forensic Science
- Journalism
- Learning Strategies
- Military History
- Pre-Engineering
- Psychology
- Religious Studies
- Social Sciences
- World Religion
- Studies in Govt. & Politics
CERTIFICATE OF HIGH SCHOOL ACHIEVEMENT REQUIREMENTS (ENGLISH)

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.

<table>
<thead>
<tr>
<th>80 CREDITS</th>
<th>including the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH LANGUAGE ARTS 20-2 or 30-4</td>
<td></td>
</tr>
<tr>
<td>SOCIAL STUDIES 10-2 or 20-4</td>
<td></td>
</tr>
<tr>
<td>MATHEMATICS 10-3 or 20-4</td>
<td></td>
</tr>
<tr>
<td>SCIENCE 14 or 20-4</td>
<td></td>
</tr>
<tr>
<td>PHYSICAL EDUCATION 10 (3 CREDITS)</td>
<td></td>
</tr>
<tr>
<td>CAREER AND LIFE MANAGEMENT (3 CREDITS)</td>
<td></td>
</tr>
<tr>
<td>5 CREDITS IN</td>
<td></td>
</tr>
<tr>
<td>• 30-level Knowledge and Employability occupational course, or</td>
<td></td>
</tr>
<tr>
<td>• 30-level Career and Technology Studies (CTS), or</td>
<td></td>
</tr>
<tr>
<td>• 30-level Locally Developed Course with an occupational focus</td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>5 CREDITS IN</td>
<td></td>
</tr>
<tr>
<td>• 30-level Knowledge and Employability Workplace Practicum course, or</td>
<td></td>
</tr>
<tr>
<td>• 30-level Work Experience course, or</td>
<td></td>
</tr>
<tr>
<td>• 30-level Green Certificate course</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>5 CREDITS IN</td>
<td></td>
</tr>
<tr>
<td>• 35-level Registered Apprenticeship Program (RAP) course</td>
<td></td>
</tr>
</tbody>
</table>

GRADES, PROMOTIONS AND DIPLOMA EXAMS

Report cards with grades given in percentages are issued four times a year. Students and parents should contact teachers directly regarding marks and progress to date. The minimum mark for receiving credits is 50%. Students must receive 50% in order to take the next course in that subject sequence. Credits may be obtained for any course only once. Students who receive credits for a course and repeat the course elsewhere (i.e. summer school) in order to improve their grades do not receive credits a second time. Requests for transcripts (unofficial) should be made directly to Guidance. Official transcripts are available from Alberta Education.

Provincial diploma examinations have been developed for the following Grade 12 courses: English 30-1, English 30-2, Social Studies 30-1, Social Studies 30-2, Math 30-1, Math 30-2, Science 30, Biology 30, Chemistry 30, and Physics 30.
ACADEMICS
(Listed Alphabetically by Course/Program)

ADVANCED PLACEMENT PROGRAM

Advanced Placement (AP) courses allow students to earn credit or advanced standing at most of Canada’s colleges and universities (http://apcanada.collegeboard.org). This program provides students with opportunities to pursue university studies while still in a high school setting.

Some advantages of the AP program include:

- Improves writing skills and problem-solving techniques
- Provides head start on university-level work without the university fees
- Develops study habits needed for university
- Demonstrates readiness for university or college to admissions committees
- Shows initiative and commitment to academic excellence
- Explores the world from a variety of perspectives
- Explores subjects in greater depth and detail than that prescribed by the Alberta Program of Studies

The AP program is flexible. Students may take one or many different courses. There is no minimum number of courses required to participate in the program. Courses offered at Centennial High School will vary due to expressed student interest, staff and facility considerations. The school reserves the right to cancel a class based on low student requests. In addition, students may encounter conflicts with other course offerings if their program is highly specialized. Please speak directly to a Guidance Counsellor for assistance.

We currently offer AP courses in Physics, Chemistry, Biology, Science, Math, English Literature Composition and Social Studies. Please see individual courses in this document for more specifics regarding course content. All 30 level AP students are required to write the Alberta Education Diploma Exams. Each AP course meets and exceeds the Alberta Education course requirements as well as prepares and qualifies the student to successfully write the Advanced Placement 30 level exam in May. Students accepted into an AP course may have to purchase their own textbook (course dependent) and will have to pay approximately $100.00 per 30 level exam. Because these courses are optional, it is the responsibility of the participant to cover these costs.

**NOTE:** Alberta Education does not recognize AP courses on the official student transcript with a specific notation with the Alberta Education course – that is, Chemistry 30 AP appears as Chemistry 30 on a student’s transcript. Courses designated as AP (Advanced Placement) courses at Centennial High School have been identified as such since they prepare students to write the grade twelve Advanced Placement exams administered by the College Board (the International organization that oversees all Advanced Placement courses). This is the organization that provides students with official documentation for use with post-secondary institutions regarding credit for first year courses.

Students must apply for enrolment in AP courses and admission criteria varies by course. Students interested in AP courses who do not meet the criteria should book an appointment with a Guidance Counsellor. Please check with your Guidance Counsellor for information on specific courses. In order
to register for AP courses, students must meet the requirements found on the following pages and have a teacher recommendation.

**Advanced Placement Certificate from Centennial High School**

Upon completion of a minimum of 2 Advanced Placement exams by their Grade 12 year of studies, students will be eligible for the *Centennial Advanced Placement Certificate of Excellence.* Students must earn a minimum of 80% as their final teacher-awarded mark in the courses. Students will earn credits for the AP course only. The certificate is in recognition of the students’ dedication to scholarly excellence. Students will receive recognition for their Certificate of Excellence at the graduation ceremony as they cross the stage.

**1103 English 10 AP (5 credits)**

*Prerequisite: successful completion of Grade 9 ELA with a recommended minimum mark of 80% and teacher recommendation*

English 10 AP is designed for students who desire challenge and guidance as they engage in an enriched and rigorous approach to the study of literature. Students acquire the knowledge, concepts and skills required for a deeper understanding of the ways writers use language to provide enhanced, meaningful, and pleasurable experiences for their readers.

AP students investigate their reading, writing, speaking and listening skills through in-depth engagement with literature, while improving their understanding and use of established writing conventions (e.g. diction, syntax, and grammar). They learn to read with insight, write with control, listen judiciously, and speak with informed purpose. Students in this course should expect to engage in lengthy and complex reading, writing, speaking and listening tasks.

**2103 English 20 AP (5 credits)**

*Prerequisite: English 10 AP, or recommended minimum mark of 80% in English 10-1 and teacher recommendation*

This challenging course covers the English 20-1 Program of Studies, but in more depth and breadth. English 20 AP is designed to provide a stimulating challenge for academically oriented students who are passionate about the English Language Arts. Students in this course will experience advanced level text selection, assignments, and expectations.

**3103 and 3103A English 30/35 AP (8 credits)**

*Prerequisite: English 20 AP or with a recommended minimum mark of 80% in English 20-1 and teacher recommendation*

This challenging course covers the same Program of Studies as English 30-1, but does so in more depth and breadth. This is a course designed to provide challenges for academically oriented students who have a real passion about the English Language Arts. Students in this course expect and experience advanced level text selection, assignments, and expectations. Students will write their English 30-1 diploma exam in January.

English 35 AP prepares students for writing the English Advanced Placement exam in May. Students will have the opportunity to purchase or borrow the textbook for this course and pay an administration fee to write the exam.
1036 Math 10C AP (5 credits)
Prerequisite: successful completion of Grade 9 Math with a recommended minimum mark of 80% and teacher recommendation
Students should be highly motivated and welcome a challenge of pursuing mathematical concepts in greater depth and at a higher level of difficulty. This course includes the Math 10C program but takes a more rigorous approach to the content. Students should be willing to participate in math contests.

2036 Math 20-1 AP (5 credits)
Prerequisite: Math 10C or 10C AP recommended minimum mark of 80% and teacher recommendation
This course is designed for Math 10C AP students continuing in the Advanced Placement program and challenges strong Math 10C students. All students require recommendations from their Math 10 teacher. Students will cover the content of Math 20-1 at a more rigorous and theoretical level, as well as enriched topics. Students must demonstrate a strong mastery of math skills and a high level of motivation and responsibility. Students will participate in math contests.

3036 and 3036A Math 30/31 AP (10 credits)
Prerequisite: Math 20 AP or Math 20-1 with a recommended minimum mark of 80% and teacher recommendation
This course is designed for Math 20-1 AP students continuing into the AP program. All students require a recommendation from their mathematics 20 teacher. Students will cover the content of Math 30-1 at a more rigorous and theoretical level, as well as enriched topics. Students must demonstrate a strong mastery of math skills and a high level of motivation and responsibility. All students write a diploma exam worth 50% of their mark. Students will participate in math contests.

Advanced Placement Calculus develops the student’s understanding of the concepts of calculus and provides experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are also important. The course is intended to be challenging and demanding. Themes include derivatives, integrals, limits, approximation, and application and modeling. Students take this course once they have completed Math 30-1 AP. Students are expected to write the AP exam in May. Students will participate in math contests.

1271 Science 10 AP (5 credits)
Prerequisite: Grade 9 Science and Math with a recommended minimum mark of 80% and teacher recommendation
This course is designed to go beyond the regular Alberta Program of Studies for Science 10. Some topics covered in this class will delve into grade 11 material. There will be a more comprehensive and in depth laboratory experience along with greater latitude in classroom research and debate. This course will inform and prepare the grade 10 student to choose the correct Advanced Placement course(s) to register for in grades 11 and 12.

2793 Biology 20 AP (5 credits)
Prerequisite: recommended minimum mark of 80% in Science 10 AP (85% in Science 10) and Math 10C and teacher recommendation

3793 and 3793A Biology 30/35 AP (8 credits)
Prerequisite: recommended minimum mark of 75% in Biology 20AP and teacher recommendation
This course is divided so that the student would take Biology 20 AP in their grade 11 year and the 30/35 AP courses in their grade 12 year (2 semesters).
The aim of the Biology AP program is to offer more depth in the core units of study and includes expanded electives. The program covers the following topics: molecules and cells, heredity and evolution, and organisms and populations. Students are required to do lab work that supports the theoretical side of this course. This class is offered dependant on enrolment.

Students will be required to write two major assessments during the course of the 30/35 AP program. One will be the Biology Advanced Placement exam from the College Board and the second is the Alberta Education Biology 30 Diploma Exam. The diploma exam will make up 50% of the students’ grade for the Biology 30 component of the program. Upon successful completion of the program, students will be granted credits in Biology 20, Biology 30 and Biology 35 AP.

3795 and 3795A Chemistry 20/30 AP (10 credits)
Prerequisite: recommended minimum mark of 80% in Science 10 AP (85% in Science 10) and Math 10C and teacher recommendation

This is a full year course and students will be expected to remain in the course for the full year to get credit. Partial credit is not optional as the courses do not align. The aim of the Chemistry AP program is to offer more depth in the core units of study and includes expanded electives. The program covers the following topics: quantum mechanics, atomic structure and bonding, nuclear chemistry, solution chemistry, gas laws, stoichiometry, organic chemistry, thermochemistry, entropy, equilibrium, acids and bases, and electrochemistry. Students are required to do lab work that supports the theoretical side of this course. Students are also required to purchase the textbook that will accompany this course.

All students will be required to write 3 major assessments during the course of the year which include the Chemistry 20AP final exam in January (school based), the Chemistry AP exam in May (from the College Board), and the Chemistry 30 diploma exam in June (from Alberta Education). Upon successful completion of the program, students will be granted Alberta Education credits in Chemistry 20 and Chemistry 30.

3794 and 3794A Physics 20/30 AP (10 credits)
Prerequisite: recommended minimum mark of 80% in Science 10 AP (85% in Science 10) and Math 10C and teacher recommendation

Physics 20/30AP is a full year course. Partial credit is not optional as the courses do not align. The aim of the AP Physics program is to offer a detailed study of topics that would typically be found in an entry-level, algebra-based University physics course. Topics include Newtonian mechanics (including rotational dynamics and angular momentum), work, energy and Power, waves and sound, electric circuits, electromagnetism, optics, quantum physics, atomic and nuclear physics.

All students will be required to write 3 major assessments during the course of the year which include the Physics 20AP final exam in January (school based), the AP Physics 1 exam in May (from the College Board), and the Physics 30 diploma exam in June (from Alberta Education). Upon successful completion of the program, students will be granted Alberta Education credit in Physics 20 and Physics 30.
1773 Social Studies 10 AP (5 credits)
Prerequisite: successful completion of Grade 9 Social Studies with a recommended minimum mark of 80% and teacher recommendation.
This challenging course covers the same content as Social Studies 10-1, but does so in more depth and breadth. There is a significant focus on analysis, research, and managing information and ideas. This is a course designed to provide challenge for academically oriented students who have a passion for the subject.

2773 Social Studies 20 AP (5 credits)
Prerequisite: Social Studies 10 AP, or Social 10-1 with a recommended minimum mark of 80% and teacher recommendation.
This challenging course extends the Program of Studies of Social Studies 20-1. Students continue to develop specific skills and knowledge that draws on their passion for Social Studies and learning. This course will include a significant amount of AP content as well as the full Alberta Curriculum content.

3773 and 3773A Social Studies 30-1/35 AP (5 credits)
Prerequisite: Social Studies 20 AP, or Social 20-1 with a recommended minimum mark of 80 % and teacher recommendation.
“Perspectives on Ideology” explores the origins and complexities of ideologies and examine multiple perspectives regarding the principles of classical and modern liberalism. An analysis of various political and economic systems will allow students to assess the viability of the principles of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues. Students also prepare for the mandatory diploma exam to be written in January, worth 50% of their final mark.

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Students will be enrolled in the course for 3 terms to complete the Alberta, as well as the College Board, curriculum. Students will write the College Board exam for Social Studies 35 in May.
CAREER & LIFE MANAGEMENT (CALM)

2350 Career and Life Management (CALM) 20 (3 credits)
Prerequisite: Grade 11 student
The aim of the CALM course is to enable students to make well-informed, considered decisions and choices in all aspects of their lives. Students are encouraged to develop behaviours and attitudes that contribute to the well-being and respect of self and others, now and in the future. This course is a requirement for a High School Diploma and Certificate of High School Achievement.

2375 Career and Life Management (CALM) 20 ONLINE (4 credits)
Prerequisite: Grade 11 student
This independent option works well for students with a full class schedule, students who have course scheduling challenges due to special programs, students with heavy extra curricular commitments, or students who wish a technology-based alternative.

What do online students experience?
- Each student will attend an online learning orientation session to get started.
- Students complete a prerequisite 1-credit course called Workstation Technology & Operations.

In online courses:
- Students work online at home, at school and anywhere they can access the internet.
- Unit deadlines are set, but students have freedom to work online when they want. Using unit deadlines as a guide, students create a work plan for each unit.
- Online students have flexibility to work at their own pace - they can finish early, or flex their learning time around other commitments. Online learning requires about as much time as learning in a classroom course.
- Help can be accessed through a start-up orientation session, online communication tools (email and pager), and through the teacher’s posted office hours.
- Interaction with other students is encouraged through online discussions.

Who should apply for CALM Online?
To be an independent online learner, students need to be:
- Good at prioritizing tasks and getting things done without a teacher reminder.
- Able to plan blocks of time to devote to online learning.
- Comfortable asking questions and asking for help.
- Interested in learning new skills and mastering new technologies including email, web browsers, and attachments.

What are the results of online learning?
- Building “online life skills”, becoming techno-savvy, and preparing for post-secondary courses which are online.
- Becoming more autonomous learners—self-motivation, initiative, ability to plan and manage time to achieve personal goals, organization, self-advocacy.
- Becoming a more flexible, independent learner—adaptable to a new learning environment, able to cope with uncertainty, open and able to respond to change constructively.
**ENGLISH LANGUAGE ARTS (ELA)**

The ELA program is very student-centered and is focused on choice, encouraging all students to use their natural talents to help them find success with the texts they work with, the assignments and projects they do, and how they are assessed.

<table>
<thead>
<tr>
<th>ELA 10-1</th>
<th>ELA 20-1</th>
<th>ELA 30-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>65%+</td>
<td>75%+</td>
<td>75%+</td>
</tr>
<tr>
<td>ELA 10-2</td>
<td>ELA 20-2</td>
<td>ELA 30-2</td>
</tr>
<tr>
<td>50%+</td>
<td>50%+</td>
<td>50%+</td>
</tr>
<tr>
<td>ELA 10-4</td>
<td>ELA 20-4</td>
<td>ELA 30-4</td>
</tr>
<tr>
<td>50%+</td>
<td>50%+</td>
<td>75%+</td>
</tr>
</tbody>
</table>

Arrows indicate recommended transfer routes. See Guidance Counsellor to define transfer.

**1105, 2105, 3105 English 10-1, English 20-1, English 30-1** (5 credits each)
*Prerequisite: successful completion of ELA9 with a recommended minimum mark of 65%.*
The ELA 10-1, 20-1, 30-1 sequence is intended for students who have demonstrated academic strength in the junior high school environment and who plan to enroll in a degree program at a post-secondary institution following high school graduation. These courses are designed to develop the student’s academic command of listening, speaking, reading, writing, viewing and representing. Students are expected to think in creative, complex and abstract ways to demonstrate learning. For English 30-1, students will write the diploma exam worth 50% of their final mark.

**1104, 2104, 3104 English 10-2, English 20-2, English 30-2** (5 credits each)
*Prerequisite: successful completion of ELA9 with a recommended minimum mark of 40%.*
The ELA 10-2, 20-2, and 30-2 sequence is designed to assist students and strengthen skills using listening, speaking, reading, writing, viewing, and representing. Students are expected to write in personal, concrete styles to communicate learned objectives. This sequence is intended for students who plan to enter diploma program at a post secondary college or technical institution or enter the work force directly after high school graduation. For English 30-2, students will write the diploma exam worth 50% of their final mark.

**2425A English 20 for Band 20 Students** (10 credits)
*Prerequisite: successful completion of English 10-1, 10-2 and Band 10.*
This course pairing is open to students who wish to pursue concurrent, full-year registration in English 20 and Band 20. The curriculum for both English 20 and Band 20 will follow the descriptions provided in the registration booklet; the English 20 component of the pairing will provide blended instruction, and therefore students in Band in either stream of English (-1/-2) are invited to register.
3425A English 30 for Band 30 Students (10 credits)

Prerequisite: successful completion of English 20-1, 20-2 and Band 20

This course pairing is open to students who wish to pursue concurrent, full-year registration in English 30 and Band 30. The curriculum for both English 30 and Band 30 will follow the descriptions provided in the registration booklet; the English 30 component of the pairing will provide blended instruction, and therefore students in Band in either stream of English (-1/-2) are invited to register. Students will write the 30-1 or the 30-2 Diploma Exam in June.
ENGLISH LANGUAGE LEARNING (ELL)

Centennial offers a full range of ELL courses, for students who do not speak English as a first language. Level placement is based on language assessment and teacher recommendation.

Depending on their level, students will be placed in one or more ELL courses to help them:
- acquire the linguistic skills needed for academic success in high school courses.
- integrate successfully into appropriate courses required for the completion of a High School Diploma.

ELL Course Sequences

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3A</th>
<th>Level 4A</th>
<th>Level 3B</th>
<th>Level 4B-Transitions</th>
<th>English 10-1 or -2</th>
</tr>
</thead>
</table>

1120 ELL Level 1 - Beginners
Level 1 is a beginner class for students with little or no experience in English. The class will help students develop basic communication skills in reading, writing, listening and speaking.

1121 ELL Level 2 – High Beginners (5 credits)
Level 2 courses are for students with some experience in English. The course is designed to help students develop basic communication skills, acquire cultural competence, and become familiar with academic requirements in high school.

1148 ELL Level 3A - Intermediate Expository English 15 (5 credits)
This course focuses on developing the language skills needed for academic English.

1122 ELL Level 3B - High Intermediate (5 credits)
This course focuses on developing academic language and reading skills with an emphasis on building three paragraph essays.

3513 ELL Level 4A -High Intermediate/Advanced –Expository English 25 (5 credits)
This course focuses on developing academic language skills with emphasis on research, reading and essay writing.

1123 ELL Level 4B -Advanced – Transitions (5 credits)
This Level 4 course is for advanced level students. The course will focus on strengthening skills in interpreting literature using the strands mandated by the Alberta Curriculum for Language Arts with an emphasis on expanding essay writing skills.
1212 ELL Social Studies 15 (5 credits)
2212 ELL Social Studies 25 (5 credits)
Level 1, 2 and 3 students will be enrolled in ESL Intro to Canadian Studies 15 or 25. They will be introduced to the language of Social Studies. Topics include Canadian history, geography, government and identity.

1214 ELL Social Studies 10-2 (5 credits)
This course covers the Social Studies 10-2 curriculum but provides extra reading and writing support.

1289 ELL Science 14 (5 credits)
Levels 1, 2 and 3 students will be enrolled in a Science 14 class to build their Science vocabulary and provide extra reading and writing support.
KNOWLEDGE AND EMPLOYABILITY (KAE)

Knowledge and Employability courses are designed for students who meet the criteria and learn best through hands-on experiential activities. The focus of these courses is to provide a successful transition into employment and/or further training opportunities. Students may qualify for a Certificate of High School Achievement or may continue their studies in order to qualify for an Alberta High School Diploma. Informed annual written consent of parents/guardians is required for students under 16 years of age to participate in this program.

KAE Course offerings at Centennial High School include:

ACADEMICS

1780, 2780, 3780 KAE English 10-4, English 20-4, English 30-4 (5 credits each)
Students will learn to communicate effectively at school, at home and in the workplace and community. There will be an opportunity to develop writing, reading, viewing, listening, and speaking skills through literature, print and electronic media. They will learn to communicate with confidence and develop critical and creative thinking skills, as well as problem solving strategies and decision-making plans to enhance communication.

1781, 2781 KAE Social Studies 10-4, Social Studies 20-4 (5 credits each)
As responsible citizens, students will develop the knowledge, skills and attitudes required to make decisions for themselves, as well as gaining knowledge of Canadian society and an awareness of their position as a citizen of the world. Course content will include history, economics, current events and the social sciences. Many opportunities to participate in the democratic process, apply critical/creative thinking skills and inquiry strategies to a variety of situations will be provided.

1782, 2782 KAE Math 10-4, Math 20-4 (5 credits each)
Students will develop the essential concepts, skills and attitudes of mathematics that are required for responsible participation in the home, the school, the community and the workplace. They will learn to apply mathematical concepts and skills to daily life and occupational situations as well as have the opportunity to use technology to solve mathematic problems.

1783, 2783 KAE Science 10-4, Science 20-4 (5 credits each)
These courses are designed to stimulate and challenge students in applying essential science skills, knowledge and attitudes needed for everyday living at home, in the workplace and in the community of the world of work. With a strong focus on developing citizenship, work ethic, and an appreciation for science, a wide variety of instructional media is used, and where possible, students learn through the use of experiments, projects, and activities.

CAREER TECHNOLOGY STUDIES

1570, 2570, 3570 KAE Art/Design 10-4, 20-4, 30-4 (5 credits each)
Art/Design 10-4 provides an understanding of, and an opportunity for, students to practice techniques and the effective use of media and equipment. These skills will enable students to illustrate visual solutions to situations they encounter in any career field. Art/Design 10-4 provides a basis for, and an introduction to, Art/Design 20-4 and 30-4.
1571, 2571, 3571 KAE Art/Media Communication 10-4, 20-4, 30-4 (5 credits each)
Art/Media Communications 10-4 provides a basis for, and an introduction to, Art/Media Communications 20-4 and 30-4. Art/Media Communications 20-4 and 30-4 focus on computer-related design projects and animation.

Students interested in art, design and media communications should be encouraged to take both courses at the 10, 20 and 30 levels

1574, 2574, 3574 KAE Business 10-4, 20-4, 30-4 (5 credits each)
This is a five credit course that is designed to introduce students to the occupational knowledge and skills required for entry-level positions in office services, sales and service and logistics. Students will develop their employability competencies that relate to all career opportunities.

1577, 2577, 3577 KAE Construction 10-4, 20-4, 30-4 (5 credits each)
In our Knowledge and Employability Construction class, students develop basic competencies in Construction Technology, and are able to demonstrate them in daily life and the workplace. Students will gain exposure to various occupational strands in the Construction industry and develop skills and habits to support them in their chosen strand. Students will work towards developing positive and safe behaviour in the shop and mastery of skills.

1581, 2581, 3581 KAE Cosmetology 10-4, 20-4, 30-4 (5 credits each)
Cost: $30.00 for Cosmetology 10-4
These 5 credit courses are designed to focus on the basic competencies in the Cosmetology industry. Students will focus on basic hairdressing and manicuring skills. Students will work in the lab to develop their employability skills for entry level positions at salons and spas. This is not an Apprenticeship based program, but students can also choose to explore the business of salons and work to receive credits in K&E business services, sales and services, as well as logistics.

1583, 2583, 3583 KAE Fabrics 10-4, 20-4, 30-4 (5 credits each)
Fabrics courses are designed to teach occupational knowledge and skills for entry-level positions in fashion and industrial textiles by developing employability competencies that relate to all career choices. All courses focus on developing career awareness, safety standards and knowledge of tools, equipment and materials related to the industry.

1585 KAE Foods 10 (5 credits)
Prerequisite: None
Cost: $30.00
This entry level course in commercial food preparation will formally acquaint students with the techniques, skills, and general surroundings typically encountered in most hotel and restaurant settings. They will spend the majority of their time involved with practical work experiences designed to promote the understandings needed for the safe and productive use of modern commercial kitchen tools and equipment. There will be some theory designed to complement and support their practical learning experiences. The courses covered in this class include Food Basics, Baking Basics, Meal Planning, Snack and Appetizers, Fast and Convenience Foods and Canadian Foods.
**2585 KAE Foods 20 (5 credits)**  
*Prerequisite: Foods 10 (including Food Basics 1010)*  
*Cost: $30.00*  
This intermediate level course places a pronounced emphasis on ventures into large-scale commercial cooking operations. The students will gain practical cooking experience on a daily basis through rotations in entrée, salad, sandwich, baking and dessert sections of an industrial kitchen designed to effectively maintain kitchen cleanliness, food safety and hygiene practices to serve both the student and staff cafeteria. Additional time will be required during the lunch break to serve staff and students. Opportunities also exist for students to participate in food preparation and catering events at the school.

**3585 KAE Foods 30 (5 credits)**  
*Prerequisite: Foods 20*  
*Cost: $30.00*  
The advanced level class continues to build on skills that have been learned in grade 10 and 11 KAE Foods courses. Students continue to rotate in the entrée, salad, sandwich, baking and dessert sections as well as doing individual courses in a variety of culinary fields. Additional time will be required during the lunch break to serve both staff and students. Opportunities also exist for students to participate in food preparation and catering events at the school.

**COMPLEMENTARY COURSES**

**Please refer to pages 42 - 70 for the selection of available Complementary Courses.**
MATHEMATICS

A student may continue at the same level if he/she gets a final mark of 50% or higher; however, historically students who have followed teacher recommendations, as outlined in the graphic below, have had significantly higher success rates than those who do not follow their teacher’s recommendation. **Note:** As mandated by Alberta Education, a graphing calculator is required for Math 30-1 and 30-2.

![Graph showing transfer routes]

Arrows indicate recommended transfer routes. See Guidance Counsellor to define transfer.

**1037 Math 10C (5 credits)**

*Prerequisite: completion of grade 9 Math with a recommended minimum mark of 60%*

The starting point for the Math 20-1 and Math 20-2 course sequences. Each topic area requires students to develop a conceptual knowledge base and skill set that will be useful to whatever course sequence they have chosen. The topics covered within a course sequence are meant to build upon previous knowledge and to progress from simple to more complex conceptual understandings.

**1038 Math 10-3 (5 credits)**

*Prerequisite: completion of grade 9 Math with a minimum mark of 40%*

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

**2037 Math 20-1 (5 credits)**

*Prerequisite: recommended minimum mark of 70% in Math 10C*

This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into post-secondary programs that require the study of calculus. Topics include algebra and number, measurement, relations and functions, trigonometry and permutations, combinations and binomial theorem.
**2038 Math 20-2** (5 credits)  
*Prerequisite: recommended minimum mark of 55% in Math 10C*  
This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for post-secondary studies in programs that do not require the study of calculus. Topics include geometry, measurement number and logic, logical reasoning, relations and functions, statistics, and probability.

**2225 Math 20-3** (5 credits)  
*Prerequisite: recommended minimum mark of 50% in Math 10-3 or 40% in Math 10C*  
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 work force. Topics include algebra, geometry, measurement, number, statistics and probability.

**3037 Math 30-1** (5 credits)  
*Prerequisite: recommended minimum mark of 70% in Math 20-1*  
This course sequence is designed to provide students with the mathematical understanding and critical thinking skills for post-secondary studies that require the study of calculus. Topics include transformations, trigonometry, logarithms, permutations and combinations. All students write a diploma exam worth 50% of their mark.

**3038 Math 30-2** (5 credits)  
*Prerequisite: successful completion of Math 20-2 with a recommended minimum mark of 70%*  
This course sequence is designed to provide students with the mathematical understanding and critical thinking skills for post-secondary studies that do not require the study of calculus. Topics include logical reasoning, probability, relations and functions. All students write a diploma exam worth 50% of their mark.

**3039 Math 30-3** (5 credits)  
*Prerequisite: recommended minimum mark of 70% in Math 20-3 or 40% in Math 20-2*  
This course sequence is designed to provide students with the mathematical understandings and critical thinking skills identified for entry into the majority of the trades and for direct entry into the workforce. Topics include measurement, geometry, algebra, number skills, statistics and probability.

**3211 Math 31** (5 credits)  
*Prerequisite: recommended minimum mark of 80% in Math 30-1*  
Math 31 is a course designed to introduce students to the mathematical methods of **Calculus**. This course will provide a student entry into first-year post-secondary programs in mathematics, science, engineering and business. Math 31 is generally taken after Math 30-1; however, the courses may be taken concurrently by very strong, motivated students. Topics studied include the algebra of functions, trigonometry, differential calculus and integral calculus. Students are required to have strong algebra skills.
PACED LEARNING PROGRAM (PLP)

The Paced Learning Program (PLP) is a Special Education class for students who have been identified with a mild or moderate cognitive disability. The goal of the Paced Learning Program is to provide instruction and learning opportunities appropriate to each student’s abilities and needs. Emphasis is placed on developing literacy, numeracy, communication, life and work skills.

Students who successfully complete the PLP program will receive a PLP Certificate of Completion. Classes are chosen in consultation with administration and PLP teachers. Placement into the program is through Area Office at 403-777-8780.
SCIENCE

**Arrows indicate recommended transfer routes. See Guidance Counsellor to define transfer.**

**Any grade 11 student wishing to be registered in a 30 level science diploma course will need a minimum of 80% in the respective 20 level course and a teacher recommendation.**

1270 Science 10 (5 credits)
*Prerequisite: successful completion of grade 9 Science and Math with recommended minimum mark of 60%, or 80% in Science 24*

This course is a prerequisite for all senior high science courses. It is designed for academic students to explore Chemistry, Physics, Biology and Global Energy systems. This course will give students a better idea of the high school science courses they wish to pursue in their grade 11 and 12 year. The focus is to build a high school work ethic and develop science skills in the context of the 3 disciplines.

1288 Science 14 (5 credits)
*Prerequisites: successful completion of grade 9 Science with a recommended minimum mark of 40%*

This course is designed for the student who has experienced difficulties in grade 9 Science and Math. Emphasis is placed on activities and process skills that are more practical in nature. Topics covered include the properties of matter, energy transfer technologies, human physiology, body systems, and environmental studies. A mark of 80% in Science 14 and 50% in Math 10C with a written teacher recommendation will allow entrance into Science 10.

2270 Science 20 (5 credits)
*Prerequisites: recommended minimum mark of 50% in Science 10 and Math 10C*

Science 20 is an academic science course designed for students planning to take Science 30. Completion of Science 30 will enable students to attend Post Secondary institutions leading to a non-science career. The topics to be covered include geology, chemistry, living systems and motion.
2288 Science 24 (5 credits)
Prerequisites: recommended minimum mark of 50% in Science 14
This course is a continuation of the progress made in Science 14. Topics of investigation include: properties of matter and chemical change, disease and human health, motion, change, and transportation safety. This course is intended to allow a student to complete the science credit requirements for a high school diploma. Students achieving 80%+ have the choice to enrol in Science 10.

2231 Biology 20 (5 credits)
Prerequisites: recommended minimum mark of 60% in Science 10
This course focuses on the study of matter and energy in the biosphere, photosynthesis, cellular respiration and human physiological processes (nutrition, digestion, circulation, respiration and excretion). Students with a strong biology interest, and health sciences career focus, would be encouraged to take Chemistry 20 concurrently to build an academic foundation of general concepts to enable understanding of the biochemical processes that occur in living organisms. The next course in this sequence is Biology 30.

2796 Chemistry 20 (5 credits)
Prerequisites: recommended minimum mark of 60% in Science 10 and 60% in Math 10C
Chemistry 20 is an in-depth science course designed for academic students who intend to pursue biology, chemistry or physics related post-secondary education. The course covers such topics as atomic models, bonding, solutions, acid-base chemistry, gas laws, and stoichiometry. The next course in this sequence is Chemistry 30.

2797 Physics 20 (5 credits)
Prerequisites: recommended minimum mark of 65% in Science 10 and Math 10C
The theme of “interactions of matter and energy” is covered through topics such as kinematics, forces and vectors, circular motion, gravitation, and waves. The course concludes with a study of transmission of energy. The next course in this sequence is Physics 30.

3270 Science 30 (5 credits)
Prerequisites: recommended minimum mark of 60% in Science 20
Science 30 is an integrated science course designed for students who want to be scientifically literate but do not intend to pursue science-related post-secondary education. The common theme of “environment” is explored in units dealing with topics such as human systems, acid-base chemistry, organic chemistry, electromagnetic radiation and energy resources. The emphasis of this course is on “breadth rather than depth” as topics covered have less detail than in the individual sciences of biology, chemistry and physics. A diploma exam worth 50% of the final mark will be written.

3230 Biology 30 (5 credits)
Prerequisite: recommended minimum mark of 60% in Biology 20
Biology 30 is an in-depth science course designed for academic students who intend to pursue biology related post-secondary education. Students should seriously consider taking chemistry courses in addition to Biology 30 to round out their science portfolio. The theme of “equilibrium” is covered through topics such as genetics, human systems (nervous, endocrine, reproductive) and population dynamics. A diploma exam worth 50% of the final mark will be written.
**3796 Chemistry 30 (5 credits)**
*Prerequisite: recommended minimum mark of 60% in Chemistry 20*

Chemistry 30 is an in-depth science course designed for academic students who intend to pursue a biology, chemistry or physics post-secondary related education. The theme of “matter, energy change and chemical change” is covered through such topics as organic chemistry, thermochemistry, electrochemistry, equilibrium, and acid-base chemistry. A diploma exam worth 50% of the final mark will be written.

**3797 Physics 30 (5 credits)**
*Prerequisite: recommended minimum mark of 60% in Physics 20*

Physics 30 is an in-depth science course designed for academic students who intend to pursue physics or chemistry related post-secondary education. The theme of “change and diversity in matter and energy systems” is covered through topics such as momentum, impulse, forces, fields, electromagnetic radiation and atomic physics. A diploma exam worth 50% of the final mark will be written.
SOCIAl STUDIES

Arrows indicate recommended transfer routes. See Guidance Counsellor to define transfer.

1771 Social Studies 10-1 (5 credits)
Prerequisite: successful completion of grade 9 Social Studies with a recommended minimum mark of 65%
“Perspectives on Globalization” explores multiple perspectives on the origins of globalization and the impact of globalization on identity, lands, cultures, economies, human rights, and quality of life. Students also examine the relationships among globalization, citizenship, and identity to enhance skills for citizenship in a world in which all people are increasingly interconnected and interdependent.

1772 Social Studies 10-2 (5 credits)
Prerequisite: successful completion of grade 9 Social Studies with a recommended minimum mark of 40%
“Living in a Globalizing World” examines opportunities and challenges associated with globalization, the process by which the world is becoming increasingly connected and interdependent, students will develop awareness of the impacts of globalization. Recognizing and appreciating the influence of globalization will lead students to examine their roles as responsible and active citizens in a globalizing world.

2771 Social Studies 20-1 (5 credits)
Prerequisite: completion of Social Studies 10-1 with a recommended minimum mark of 65%
“Exploring Nationalism” explores the complexities of nationalism in Canadian and international contexts. Students will study the origins and varied understandings of nationalism including the idea that individual, collective, national and state perspectives are continually evolving. Students will explore the interrelationships among nation, nationalism, internationalism, globalization, and citizenship and identity as well as nationalism’s influence on global and regional relations. Students will not only develop an appreciation for the perspectives of others but also personal and civic responses to issues related to nationalism.

2772 Social Studies 20-2 (5 credits)
Prerequisite: successful completion of Social 10-1 or 10-2
“Understanding Nationalism” explores historical and contemporary understandings of nationalism in Canada and the world. Students will study the origins and impacts of nationalism on individuals and communities as well as nationalism’s influence on state and regional relations. Students will examine
the interrelationships among nation, nationalism, ultra nationalism, supranationalism, internationalism, citizenship and identity from a variety of perspectives and appreciate the understandings of nationalism continue to evolve.

3771 Social Studies 30-1 (5 credits)
*Prerequisite: successful completion of Social Studies 20-1 with a recommended minimum mark of 65%*

“Perspectives on Ideology” explores the origins and complexities of ideologies and examine multiple perspectives regarding the principles of classical and modern liberalism. An analysis of various political and economic systems will allow students to assess the viability of the principles of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues. Students also prepare for the mandatory diploma exam worth 50% of their final mark.

3772 Social Studies 30-2 (5 credits)
*Prerequisite: successful completion of Social Studies 20-1 or 20-2*

“Understandings of Ideologies” examines the origins, values and components of competing ideologies. They will explore multiple perspectives regarding relationships among individualism, liberalism, common good and collectivism. An examination of various political and economic systems will allow students to determine the viability of the values of liberalism. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues. Students also prepare for the mandatory diploma exam worth 50% of their final mark.
STUDENT RESOURCE

LEARNING STRATEGIES

The Learning Strategies Provincially created Program of Study has been designed to assist high school students in developing a personal, in depth, understanding of strategies they can use to be successful learners. Through explicit instruction, guided practice, and ongoing feedback, students will have opportunities to apply a broad scope of strategies in order to maximize their learning and achievement.

1146 Learning Strategies 15 (3-5 credits)
Prerequisite: Grade 10 students with an identified learning disability
Learning Strategies 15 is an introductory course where students recognize that there are a variety of learning styles and learning preferences. They will investigate and identify their own learning strategies, challenges, aptitudes, interests and affinities. This personal connection to learning will maximize their learning potential and increase academic success.

2146 Learning Strategies 25 (3-5 credits)
Prerequisite: Identified learning disability
Students in Learning Strategies 25 will identify specific qualities of their personal learning styles and preferences, while demonstrating knowledge of personal learning. As students work towards achieving independence as learners, they will refine their repertoire of accommodations and strategies. This will maximize their learning potential as they reassess their strengths and limitations as learners. This cycle of awareness, responsibility, accountability and reflection will be instrumental for students at this level to find success as independent learners who are able to self-advocate.

3146 Learning Strategies 35 (3-5 credits)
Prerequisite: Identified learning disability
At the 35 level, students are expected to apply knowledge of, and communicate clearly about, their personal learning styles and preferences in a variety of contexts. As a result, they will demonstrate their awareness of how these styles and preferences impact their personal learning. They will be able to independently apply, modify and reflect upon the effectiveness of organizational and management strategies in various settings. Senior students will independently self-advocate so that they are able to manage their own learning as they leave high school and become life-long learners.
### Career and Technology Studies Offerings at Centennial
**Courses in BOLD are offered in 2014 - 2015**

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<tr>
<th>CTS Clusters</th>
<th>Business Administration, Finance and Information Technology</th>
<th>Health, Recreation &amp; Human Services</th>
<th>Media, Design &amp; Communication Arts</th>
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| K&E (Knowledge & Employability) | • Computing Science  
• Enterprise & Innovation  
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• Networking  
• Robotics  
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K&E (Knowledge & Employability) | • Community Care Services  
• Cosmetology  
• Cosmetology & Hairstylist Trade  
• Cosmetology & Esthetics  
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• Foods & Cook Trade  
• Health Care Services  
• Human & Social Services  
• Legal Studies  
• Recreation Leadership  
• Tourism  
K&E (Knowledge & Employability) | • Communication Technology  
• Design Studies  
• Fashion Studies  
K&E (Knowledge & Employability) | • Art, Design and Communication  
• Fabrics  
K&E (Knowledge & Employability) | • Agriculture  
• Environmental Stewardship  
• Forestry  
• Primary Resources  
• Wildlife  
K&E (Knowledge & Employability) | • Horticulture  
• Natural Resources  
K&E (Knowledge & Employability) | • Construction  
• Construction & Carpenter Trade  
• Electro-Technologies  
• Electro-Technologies Trade  
• Fabrication  
• Fabrication & Welder Trade  
• Logistics  
• Mechanics  
• Mechanics & Autobody Trade  
• Auto Service Technician Trade  
K&E (Knowledge & Employability) | • Auto Mechanics  
• Construction Building  
• Construction Metal Fabrication  |

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**Did you know that you have access to courses outside of Centennial High School?**

**Be a student of Centennial High School and also take a course at the CT Centre. Opportunities are waiting for you!**

**Career & Technology Centre:** Students, you are invited to consider the unique hands-on opportunities available at the CT Centre. The CT Center is located at the Lord Shaughnessy Campus, 2336 – 53 Avenue SW (403-777-7971).

For additional opportunities to personalize your educational experience, please refer to the course offerings outlined in the Career & Technology Centre Course Guide on the insert to this Registration Guide and check out the CT Centre website: [http://www.ct-centre.ca/](http://www.ct-centre.ca/). Please note: transportation to and from the CT Centre is the responsibility of students and parents.
CAREER & TECHNOLOGY STUDIES (CTS)

Career and Technology Studies (CTS) is a program designed to enable secondary students to explore and develop skills that can be applied in their daily lives, and prepare them for post-secondary learning. CTS courses allow students to focus their learning in specialized areas of interest which are relevant to them.

A cluster is a grouping of courses in CTS that represent occupations and broad industry commonalities. Clusters in CTS are aligned with the National Occupational Classification (NOC) and function as organizing tools for the CTS program and assist students in connecting programs with career and educational opportunities.

**Cluster: BUSINESS, ADMINISTRATION, FINANCE AND INFORMATION TECH. (BIT)**
This cluster is designed to increase students’ abilities to apply effective and efficient systems and strategies of management and marketing, use electronic technologies to access, use and manipulate information within personal, family, workplace, community and global contexts. It challenges students to expand their confidence, experience and skills as innovators and leaders, encouraging them to recognize how these competencies can help them to succeed in any career.

**1060 Business 10 (Marketing)** (five 1 credit courses)
Prerequisite: None
Business 10 offers students a foundation for exploring careers in the world of business. At this level, the focus is on retail marketing. Students learn about marketing research basics, customer service, advertising and the psychology behind it, and retail management. The Den, Centennial’s school student managed and operated store, gives students real-life experience and an opportunity to test their marketing skills. Students apply the techniques of visual merchandising, customer service, and develop advertising campaigns as they learn to operate a business. The students also operate the *Crusin’ Cafe* in conjunction with the cafeteria.

**2060 Business 20 (Entrepreneurship)** (five 1 credit courses)
Prerequisite: Business 10 (Limited spaces available for students without Business 10)
In Business 20, students become entrepreneurs by learning how to create and operate their own businesses. Students will also create a full business plan and analysis. The theory behind business innovation, planning, financing, and marketing is made real by analyzing real-world business, then using the knowledge to develop and implement a school-based business.

**3060 Business 30 (Management)** (five 1 credit courses)
Prerequisite: Business 20 (Limited spaces available for students without Business 20)
Business 30 introduces students to the strategic management of national and international corporations. Students learn about the structure of the Canadian economy, business cycles, globalization and international trade. Within this context, the course also covers the organization of businesses and various management theories of why businesses succeed or fail. As in all Centennial business courses, Business 30 emphasizes case studies in which students analyze the management strategies of local, national and international companies.

**1080 Computer Science 10** (five 1 credit courses)
Prerequisite: successful completion of grade 9 Mathematics and/or English
Students are introduced to the approaches and areas of interest in Computer Science. They explore
high level programming languages such as Alice and C/C++, and learn about basic data types and programming control structures. Students are also introduced to robotics and robotic programming, and develop a personal project assignment that integrates the concepts learned in the preceding modules. Students should note that successful completion of Computer Science 30 can be used for university admission requirements.

2080 Computer Science 20 (five or six 1 credit courses)
Prerequisite: Computer Science 10
Students build on the programming knowledge and skills begun in Computer Science 10. They learn about procedural programming techniques, extended data types, and file creation and processing. As with Computer Science 10, there is also a course on robotics that extends the skills previously learned to a new platform, and another project course.

3080 Computer Science 30 (five 1 credit courses)
Prerequisite: Computer Science 20
Students build on the programming knowledge and skills begun in Computer Science 10 and 20. Programming skills will be extended to include iterative and recursive algorithms, and an introduction to object-oriented techniques. As with Computer Science 10 and 20, there is also a further course on robotics and a final project course. Successful completion of Computer Science 30 will enable students to use it as another science for entry into most university undergraduate programs in Alberta.

1070 Financial Management 10 (five 1 credit courses)
Prerequisite: None
This course is available to students in Grade 10, 11 or 12. Initially students learn the fundamentals of double-entry bookkeeping before progressing to complete the accounting cycle for a Service Business. Students will also have an opportunity to use accounting software during the course. Successful completion of the course in Grade 10 will enable students to study Financial Management 20 in grade 11. This course will be invaluable to those students who wish to pursue a career in commerce.

2070 Financial Management 20 (five 1 credit courses)
Prerequisite: Financial Management 10
Students will continue to analyze business transactions for a Retailing Business, adding PST, GST and Bank Credit cards. Various subsidiary journals will be introduced and a complete cycle of a retailing business will be performed. There will be continued use of the financial software Simply Accounting for these exercises. A course for Personal Investment Planning covering stocks, bonds, etc. with a mock portfolio will be introduced. Financial Management 20 will conclude with a course on Personal Taxation which examines the Canadian Income Tax system through the preparation of a variety of personal income tax returns.

3070 Financial Management 30 (five 1 credit courses)
Prerequisite: Financial Management 20
Advanced analysis of financial data including payroll will be introduced. Simply Accounting will be used extensively for Business simulations to prepare financial statements. Accounting procedures related to the organization of proprietorships, partnerships, and corporations will be included. Students will continue to explore the world of personal financial planning, including an RRSP portfolio.
1085 Introductory Robotics 10 (five 1 credit courses)
Prerequisite: successful completion of grade 9 Math
Fee: $50.00
Introductory Robotics is a CTS course intended for students with a strong background in mathematics and science who are interested in the study of robotics. Included in this are courses on basic electronics assembly techniques, robotics applications and power systems, the design, construction and programming of robots, and an introduction to the use of a variety of sensors to control autonomous robots. The course fee will provide each student with a programmable micro-controller to assemble for use with their assignments. The micro-controller is theirs to keep at the end of the course.

1090 Software Applications 10 (five 1 credit courses)
Prerequisite: None
Students learn new software skills that will increase their understanding of Microsoft Office 2010 Word, Excel, PowerPoint and Access. There is a final project course that integrates the separate applications to create a solution for a real world scenario. Students should be aware that successful completion of Software Applications will prepare them to seek Microsoft certifications for each of the applications in the Office Suite.

2090 Software Applications 20 (five 1 credit courses)
Prerequisite: Software Applications 10
Students build keyboarding skills to improve speed and accuracy, and extend the basic productivity skills learned in Software Applications 10 to produce advanced output using Word, Excel, and Access. There is a final project course that gives them the opportunity to define an assignment that will enable them to integrate their skills with the separate applications to create a solution for a problem of their own choosing.

3090 Software Applications 30 (five 1 credit courses)
Prerequisite: Software Applications 20
Students produce responses to a variety of assignments designed to enhance their mastery of productivity applications. Courses covered include advance word processing skills, project management, software integration, and analysis of hardware and software systems. The final project course gives them an opportunity to demonstrate their skills in managing a complex problem which they choose. Upon successful completion of Software Applications 30, students should be prepared to write exams from Microsoft that can earn them certifications for their knowledge of the MS Office Suite.

**Cluster: HEALTH, RECREATION & HUMAN SERVICES (HRH)**
This cluster is designed to develop knowledge, abilities, confidence and flexibility in students as they become aware of and prepare for the challenging and rewarding array of career choices in the service industries of health care, cosmetology, food industry and the legal system. This cluster includes courses concerned with providing health care services directly to patients and occupations that provide support to professional and technical health care staff. It also contains courses that relate to law, teaching, counselling, conducting social science research, developing government policy, and administering government and other programs.

1020 Cosmetology 10 (five 1 credit courses)
Prerequisite: None
Materials Cost: $30.00
This course offers introductory and exploratory exposure to the Cosmetology industry. The course
will introduce students to basic hair, skin, and nail care services. Students will complete a variety of theory projects as well as practical work on mannequins and classmates.

2010 Cosmetology 20 (five 1 credit courses)
Prerequisite: Cosmetology 10
Materials Cost: $30.00
This course is designed for students who are interested in Cosmetology, but are not seeking credentials. Students in this program will build on the skills they learned in grade 10 and develop more advanced hairstyling techniques, as well as manicuring, pedicuring, skin care, and some make up and Spa awareness. Students must have successfully completed the grade 10 Cosmetology program. This course will fill one period during one semester. Students will be expected to do practical work on each other and some clients.

2020 Cosmetology 20 Apprenticeship Pathway (twenty 1 credit courses) counts as 4 classes
Prerequisite: Cosmetology 10 and teacher recommendation
Materials Cost: $350.00 for the Cosmetology Kit and $60.00 Product fee ($30.00 per semester)
This course is designed for students who have a passion for Cosmetology and wish to pursue it as a career. Students in this course must complete 50 modules during 1400 hours of classroom instruction. These students must be highly committed and professional. Students will build on the skills they learned in grade 10 and begin to develop new, professional skills in the areas of hairstyling, haircutting, coloring, perming, as well as salon business. This course fills 2 blocks of the timetable for both semesters and requires a high level of commitment. Student’s attendance is tracked and any hours that are missed must be made up. They will be required to participate in a ‘client night’ that will occur outside of the regular timetable. Students in this class will be expected to do practical work on clients and to demonstrate professional salon behaviour. Students wishing to take this course must have successfully completed Cosmetology 10 and they must have a teacher recommendation from their grade 10 Cosmetology teacher.

3025 Cosmetology 30 (five 1 credit courses)
Prerequisite: 5 credits in Cosmetology 20
Materials Cost: $30.00
This course is designed for students who are interested in Cosmetology, but are not seeking credentials. Students in this program will build on skills they learned in the 20 level program and develop more advanced skills in hairstyling, braiding, manicuring, pedicuring, skin care, and make up, as well as Spa awareness. This course will fill one period during one semester. Students will be expected to practical work on each other and some clients.

3020 Cosmetology 30 Apprenticeship Pathway (twenty 1 credit courses) counts as 4 classes
Prerequisite: Cosmetology 20 (must successfully complete ALL 20 modules in Cosmetology 20 Apprenticeship Pathway)
Materials Cost: $60.00
Cosmetology 30 is a client service based program designed to prepare the students for employment in the Cosmetology industry. Self-confidence, speed, accuracy, customer service and work ethic are emphasized. Students will build on the practical skills in the areas of highlighting, colour removal, advanced cutting and professional practices. Students will be expected to develop independent work habits and to work on customers regularly.
1000 Commercial Foods 10 (five 1 credit courses) 1585 KAE Commercial Foods 10, 1007 PLP Commercial Foods 10

Prerequisite: None
Fee: $50.00

This entry-level course in commercial food preparation will formally acquaint students with the techniques, skills, and general surroundings typically encountered in most hotel and restaurant settings. They will spend the majority of their time involved with practical work experiences designed to promote the understandings needed for the safe and productive use of modern commercial kitchen tools and equipment. There will also be a significant theoretical component designed to complement and support their practical learning experiences. The courses covered in this class include Food Basics, Baking Basics, Meal Planning, Snack and Appetizers, Fast and Convenience Foods and Canadian Foods. Formal Certification for Alberta Food Handlers will be included in the course.

2015 Domestic Food Studies 20 (five 1 credit courses)

Prerequisite: FOD 1010 and teacher recommendation
Fee: $30.00

One of the most important life skills a student can learn is how to cook and eat well. In Domestic Foods, students will gain knowledge and experience in all aspects of food and its’ relationship to health, values and lifestyle. Students will have the opportunity to cook and eat the food that they prepare.

Students take the skills learned in Introductory Commercial Foods to the next level. The focus is on the skills required in food selection, preparation and the presentation of your food creations. They are involved in more advanced cooking techniques with a more in-depth focus on nutrition. A greater degree of learning and cooking is done on an individual basis.

3018 Domestic Food Studies 30 (five 1 credit courses)

Prerequisite: FOD 1010, teacher recommendation, and minimum 3 credits earned in Domestic Foods 20
Fee: $30.00

This course covers more advanced cooking techniques and food knowledge, with an emphasis on presentation. Students will have the opportunity to cook and eat the food they prepare. They will learn about foods from a variety of cultures, preparing various part of the meal, from appetizers to main courses to desserts. The students will learn how food is preserved and try some of these techniques in the classroom. They will also learn about food presentation techniques in all parts of the meal, including garnishing. There will continue to be an emphasis on nutrition and healthy eating in the 30 level course.

2000 Commercial Foods 20 (five 1 credit courses), 2585 KAE Foods 20, 2017 PLP Foods 20

Prerequisite: minimum three credits earned in Foods 10.
Fee: $30.00

This intermediate level course places a pronounced emphasis on ventures into large-scale commercial cooking operations. The students will gain practical cooking experience on a daily basis through rotations in entrée, salad, sandwich, baking and dessert sections of an industrial kitchen to effectively maintain kitchen cleanliness, food safety and hygiene practices. Additional time will be required during the lunch break to serve both staff and students. Opportunities also exist for students to participate in food preparation and catering events at the school.
3000 Commercial Foods 30 (five 1 credit courses), 3585 KAE Foods 30, 3007 PLP Commercial Foods 30
Prerequisite: minimum four credits earned in Commercial Foods 20
Fee: $30.00
The advanced level class continues to build on skills that have been learned in the 1000 and 2000 level courses. Students continue to rotate in the entrée, salad, sandwich, baking and dessert sections as well as doing individual courses in a variety of culinary fields. Additional time will be required during the lunch break to serve both staff and students. Opportunities also exist for students to participate in food preparation and catering events at the school.

3015 Commercial Foods Apprenticeship Pathway
Prerequisite: Teacher Recommendation Only
Fees: Course $30.00 and Optional Uniform $50.00
This course is offered to exceptional students after their Grade 10 year. It gives them the opportunity to complete their first year apprenticeship hours en route to their Journeyman’s Certificate. This specialty program was designed as a partnership between Alberta Education and the Alberta Apprenticeship Board in September 2010 to help promote the cooking industry to talented and dedicated youth who may otherwise be overlooked in the entry-level high school cooking programs. After this course is completed, students will be encouraged to forego most, if not all, of their first year apprenticeship in the cooking industry. Therefore, they will begin their apprenticeship under an accredited Chef under the title of a First Period Apprentice with Advanced Standing, allowing them to complete their first year examination. Students taking this class will be looked upon as leaders, a trait always valued in the restaurant industry.

2100 Legal Studies 20 (five 1 credit courses)
Prerequisite: Grade 11 student
This grade 11 course is designed to enable students to gain a better understanding of the Canadian legal system. An emphasis is placed on aspects of law that have a particular relevance to the young citizen. Topics investigated include private law, public law, family law, and employment law. Every effort will be made to incorporate case analysis, current events, film clips, guest speakers, and peer presentations into the learning experience. To be successful in this course, students must have a sound command of the English language, enjoy reading and writing, and be prepared to participate in lively discussions and question periods.

3100 Legal Studies 30 (five 1 credit courses)
Prerequisite: Legal Studies 20
Law is a critical element of our culture. The purpose of this course is to provide students with an opportunity to investigate a wide range of legal issues that impact their daily lives. Topics investigated include property law, negligence, criminal law, dispute resolutions, and landmark decisions along with course projects. Every effort will be made to incorporate case analysis, current events, film clips, guest speakers, and peer presentations into the learning experience. To be successful in this course, students must have a sound command of the English language, enjoy reading and writing, and be prepared to participate in lively discussions and question periods.

Cluster: MEDIA, DESIGN & COMMUNICATION ARTS (MDC)
This cluster is designed to encourage students to solve problems, make decisions and develop flexibility needed to adapt to various situations relating to design, communication and aesthetics. This cluster includes courses concerned with the professional and technical occupations related to art and
culture, including the performing arts, film and video, broadcasting, journalism, writing, creative
design, libraries and museums.

Industry standard software and hardware is used in all course work. Software includes the Adobe
Master Suite, Autodesk Design Suite and a full range of support software. Hardware includes Canon
EOS cameras, a sixteen channel digital recording studio, a podcasting studio and a variety of video
cameras, tripods and microphones.

1030 Design Studies 10 (six 1 credit courses)
Prerequisite: None
Cost: $20 deposit for the use of a Centennial drafting kit or $40 for the purchase of a student-owned drafting kit
Students will engage in creative processes as they investigate design in a variety of areas such as
architecture, industrial, product, interior and landscape design. They will learn the design process as
they explore design problems, brainstorm creative ideas and implement solutions using various
presentation methods for their project work. Students will develop sketching, drawing and modeling
skills and apply them to 2D and 3D design projects. Students will be introduced to both manual
drafting techniques and computer aided design.

2030 Design Studies 20 (five 1 credit courses)
Prerequisite: Design Studies 10
Students will build on their knowledge and skills obtained in Design Studies 10 to solve more complex
problems. Students will be encouraged to pursue their own interests in selecting their project work.
They will continue to develop their CAD (computer aided design) skills as they become proficient in a
variety of Autodesk software applications.

3030 Design Studies 30 (five 1 credit courses)
Prerequisite: Design Studies 20
Through continued study of design theory, students will solve advanced problems by implementing
purposeful and effective design. Students will be presented with numerous choices of topics of study
and will be encouraged to pursue their own interests in selecting their project work. Students will also
continue to develop skills and knowledge which will assist them in pursuing post-secondary education
in areas such as drafting, architecture, and product design. Students will be encouraged to produce
portfolios that will showcase their design work and promote their acceptance into post-secondary
study.

1045 Fashion Studies 10 (five 1 credit courses)
Prerequisite: None
Cost: $20.00
This course covers basic sewing techniques, both hand sewing and using the sewing machine and
sergers. Students will make items such as simple clothing and accessories as well as learn repair
techniques and how to recycle clothing. This course should give the student a good foundation for
more advanced techniques and using specialty fabric which is dealt within Fashion Studies 20 and 30.

2045 Fashion Studies 20 (five 1 credit courses)
Prerequisite: Fashion Studies 10
Cost: $20.00
This course covers intermediate sewing techniques, both hand sewing and using the sewing machine
and sergers. It will introduce the student to specialty fabrics as well as creating home décor items and
advanced accessories. It also looks at the wider world of fashion, both historic and current.
3045 Fashion Studies 30 (five 1 credit courses)  
*Prerequisite: Fashion Studies 20*  
*Cost: $20.00*

This course covers advanced sewing techniques and goes deeper into the use of specialty fabrics. It also looks at the fashion industry, outdoor clothing and deals with creating fabric.

1040 Multimedia 10 (five to six 1 credit courses)  
*Prerequisite: None*  

This course will introduce students to the 3P model of media production: pre-production, production and post-production. Students will think about, design, build and evaluate a variety of media. Through an exploration of audio, video, photography, animation, web design and media analysis students will practice and enhance basic skill in media production that will be beneficial in all course work. In this course students will use Creative Suite 6 by Adobe.

2040 Multimedia 20 (five to six 1 credit courses)  
*Prerequisite: Multimedia 10*  

As an extension of Multimedia 10, students in Multimedia 20 will refine and expand their knowledge, understanding and practice of media production. At this level students will make use of DSLR cameras, 3D Studio Max, advanced techniques in Adobe Premiere, introductory Adobe After Effects and Digital Audio Recording using Adobe Audition. This course will prepare students for advanced media studies.

3040 Multimedia 30 (five to six 1 credit courses)  
*Prerequisite: Multimedia 20*  

At our most advanced level of study students focus their learning through the design and selection of specific courses, unique to individual needs. Some areas of focus can be: Film Production, Audio Production, Web Design or Photography and Printing. Students are encouraged to combine courses into larger design units in order to produce portfolios that will promote their acceptance into post-secondary study. Students will use Adobe Creative Suite 6, Autodesk Programs and professional quality audio and video equipment.

**Cluster: TRADES, MANUFACTURING & TRANSPORTATION (TMT)**

The focus of this cluster is to investigate and develop important knowledge, skills and attitudes relative to the design, construction, fabrication and maintenance of a product. Students in these courses are encouraged to solve problems, make decisions and develop the abilities and flexibility to adapt quickly to new situations. This cluster includes courses that relate to manufacturing, processing, utilities, construction, mechanical, and transportation trades.

3115 Construction Project Management 20/30 (ten 1 credit courses)  
*Prerequisite: Wood Technology 10 and teacher recommendation. Students can enrol in this course as well as Const. 20 and 30*  

This 10 credit Construction course will be offered all year long and is geared towards students who enjoy project based learning. Students will have the opportunity to develop their construction skills by completing various custom projects around the school. This course offers students a chance to gain project management experience and to engage with various clients. Students will be exposed to several aspects of the Construction Industry, while gaining valuable job related experience. Construction Project Management is open to students who have completed Construction 10, are self-
directed learners, and have a teacher recommendation. Components of this course may be offered outside of the regular timetable.

**1110 Construction Wood Technology 10** (five 1 credit courses)  
**1577 KAE Construction 10** (5 credits), **1117 PLP Wood Technology 10**  
Prerequisite: None  
Materials Cost: $85.00

Wood Technology 10 is suited to students wishing to gain experience with basic construction techniques. The course focuses on developing and drawing accurate plans, solving construction related problems and developing safe and efficient work habits in a construction environment. The students will be expected to pay for the cost of the larger power tool projects. The course is best suited for students with strong independent work habits.

**2110 Construction Cabinet Making 20** (five 1 credit courses)  
**2577 KAE Construction 20** (5 credits), **2117 PLP Cabinet Making Technology 20**  
Prerequisite: Wood Technology 10  
Materials Cost: $100.00

Cabinet Making 20 is designed to be a hands-on course for students who enjoyed and excelled in Wood Technology 10. Students develop complex and multi-faceted plans for small and large cabinets. Students use a variety of construction techniques developed for solid wood and manufactured material construction. Students will build several large projects and will be responsible for the cost of their materials. This is a fast paced and highly demanding course. Students will need a high level of maturity, motivation as well as strong independent working skills.

**3110 Advanced Construction Technology 30** (five 1 credit courses)  
**3577 KAE Construction 30** (5 credits)  
Prerequisite: Const. Cabinet Making 20, 2117 PLP Cabinet Making Technology 20  
Materials Cost: $125.00

Advanced Construction 30 is designed for students who enjoyed and excelled in the 20 level course. They will continue to expand their knowledge in cabinet making as well as develop competencies in the area of machine maintenance and tool design. Students must be independent workers, responsible and show strong leadership qualities.

**Cluster: NATURAL RESOURCES (NAT)**

At Centennial these courses are linked to Outdoor and Environmental Sciences. The focus of this cluster is to investigate, understand deeply and personally, connections to the natural world. Students will investigate topics in environmental stewardship, natural resources and resource management through experimental, project based learning. Please see page 66.
COMPLEMENTARY COURSES
(not all complementary courses are offered at all levels)

ARTS, CHOIR, DRAMA & MUSIC

Arts and Languages provide numerous opportunities for students to expand and develop their individual talents in the Fine and Performing Arts and Modern Languages. Career development is explored through connections with post-secondary institutions, galleries, visiting artists, clinicians, theatre groups, architects, draftspersons, graphic artists, speakers and musicians.

Programs of Study offered within this area include:
Art
Choral Music
Drama
Instrumental Music
Musical Theatre
Technical Theatre

The Fine and Performing Arts Certificate will also be available to students seeking increased involvement. To be granted this certificate, students will need to earn a minimum of 35 credits in one or more areas in Fine and Performing Arts and related courses and take Professional Development in the Arts 35, for a total of 40 credits (see program outline listed with the Fine and Performing Arts courses).

3348 Professional Development in the Arts 35 (5 credits)
Prerequisite: 35 credits in Fine and Performing Arts and related courses, by the end of grade 12 Self-directed study course (outside of the timetable)
This is a required course for any student who wishes to earn the Fine and Performing Arts Certificate. Upon completion of this course, the student will have earned a minimum of 40 credits in this area, and will be eligible for this provincial designation on his/her high school diploma.

Professional Development in the Arts 35 will help students realistically balance their personal interests and abilities in looking at what it means to work as a professional artist through research, mentoring/job shadowing and preparation for various post-secondary experiences and art activities beyond high school. This will include written and oral personal reflection, resume building, auditions and gallery showing. Most of the course is spent on developing a portfolio of work in a chosen discipline, which demonstrates a personal, artistic style. Students will also purposely reflect upon learning experiences in the Fine Arts disciplines as a cross-disciplinary group.

ART

1400 Art 10 (5 credits)
Prerequisite: None
This course is designed for beginning art students, as well as those with previous experience. Students will develop their technical skills through drawing in various media, water colour painting, sculpture, pottery, design and mixed media. The emphasis is on basic 2- and 3-dimensional art skills and the
development of craftsmanship, but there is ample room for experimentation as well. Ancient cultures, Gothic architecture and modern art movements form the basis of several assignments.

1402 Advanced Drawing 15 (5 credits)
Prerequisite/Corequisite: Art 10
In this course, students will further their practice and investigation of drawing media, styles and composition. Exploration of traditional and modern art concepts will enhance students’ self-confidence in creative thinking, realism and symbolic representation.

1405 Advanced Painting 15 (5 credits)
Prerequisite/Corequisite: Art 10
Students will further their practice and investigation of painting media, while continuing to develop their technique and skills in both traditional and non-traditional painting. Various painting styles and artists will be looked at as motivation for the student’s own work. Students will create and express visual ideas unique to their personal experiences and explore cultural context that includes social and pop culture.

1059 Advanced Ceramics 15 (5 credits)
Prerequisite/Corequisite: Art 10
In this course students will have the opportunity to do in-depth, quality work using clay as their medium. Advanced Ceramics will help you learn the skills, knowledge and patience needed to produce quality hand-made clay objects. This is a hands-on course for students who are self-motivated, focused and have enthusiasm and the persistence needed to work with clay on a daily basis.

We will work on the pottery wheels and we will use hand building techniques. Students in this class will make clay sculpture and also complete small scale production work (cups, mugs, bowls, etc.). Proper use of glazes and learning kiln stacking and firing are also important elements of this course.

1067 Advanced Sculpture 15 (5 credits)
Prerequisite/Corequisite: Art 10
In the Advanced Sculpture course, students get to work on wood carving, stone carving, found objects and work of their own design.

Advanced Sculpture is an Art class for students who are self-motivated, inquisitive and persistent. We will fulfill curriculum requirements by making our own traditional style carving tools and use them for our projects. If made properly, these tools should last a lifetime.

Projects include: Traditional Haida carving with a visiting artist, stone carving, re-purposing existing items into something beautiful and thought provoking. Concepts covered include: traditional carving techniques, patience, planning, sketching, assemblage, utilizing kinetic energy, springs, motion, gravity or other natural forces.

Although this class can include some clay work, students wishing to work exclusively in clay should also consider enrolling in the Advanced Ceramics courses.
2400 Art 20 (5 credits)
Prerequisite: Art 10
This course continues creative exploration, expanding upon the knowledge and skills gained in Art 10. In addition to painting, drawing and sculpture, printmaking and stone carving are introduced. Students will also have opportunities to work with guest artists who will discuss their motivation in their art work, as well as their training, experiences and careers as artists. Art related careers and post-secondary options will also be explored.

2402 Advanced Drawing 25 (5 credits)
Prerequisite/Corequisite: Art 20 and Advanced Drawing 15 with a recommended minimum mark of 80% and teacher recommendation
Students will create compositions through direct observation of architectural and human forms, still life and artistic points of view. Various types of perspective will be incorporated into landscape work. Students will use taste, smell and sound as sources for drawing. Art history and cultural reference will be incorporated into drawings.

2405 Advanced Painting 25 (5 credits)
Prerequisite/Corequisite: Art 20 and Advanced Painting 15 with a recommended minimum mark of 80% and teacher recommendation
Students will investigate complex colour relationships, examine how subject and content can communicate meaning in painting and extend their knowledge of painting through experimentation with various techniques and materials.

2059 Advanced Ceramics 25 (5 credits)
Prerequisite or Corequisite: Art 20 and Advanced Ceramics 15 with a mark of 80% or above & teacher recommendation
Advanced Ceramics 25 is a continuation of the Advanced Ceramics 15 course/program.

2067 Advanced Sculpture 25 (5 credits)
Prerequisite/Corequisite: Sculpture 15 with a recommended minimum mark of 80% and teacher recommendation.
Advanced Sculpture 25 is a continuation of the Advanced Sculpture 15 course/program. Wood & Stone carving, tool making, kinetic forces & recycling/repurposing existing items, free project and working alongside visiting artists are all part of the course.

Although this class can include some clay work, students wishing to work exclusively in clay should also consider enrolling in the Advanced Ceramics courses.

3400 Art 30 (5 credits)
Prerequisite: Art 20
Students will start to recognize and develop elements that make up their own art style and create a portfolio of work. Studio work expands on drawing and painting techniques, and includes collagraph printmaking, stone carving, landscape transformations, metal work and mixed media sculpture. An understanding of visual literacy will add further meaning to student’s work. Career Development and post-secondary admission requirements will be explored through field trips, guest speakers and research projects.

3402 Advanced Drawing 35 (5 credits)
Prerequisite/Corequisite: Art 30 and Advanced Drawing 25 with a recommended minimum mark of 80%
Students will manipulate traditional sources, art history and cultural references to solve student generated challenges or objectives, in their drawings. The human figure will be the motivation or image source for much of the work. Non-traditional formats, media and composition will be explored.
3405 Advanced Painting 35 (5 credits)
Prerequisite/Corequisite: Art 30 and Advanced Painting 25 with a recommended minimum mark of 80%
Students will develop and use personal subject matter and content in their painting and explore unusual combinations of forms, techniques and media. The use of colour and space will be used to further develop meaning in their work. Formal critique, written reflection and informal group discussion will help students integrate the vocabulary of painting when analyzing artwork.

3059 Advanced Ceramics 35 (5 credits)
Prerequisite or Corequisite: Art 30 and Advanced Ceramics 25 with a mark of 80% or above
Advanced Ceramics 35 is a continuation of the student work done in Advanced Ceramics 25 course/program.

3067 Advanced Sculpture 35 (5 credits)
Prerequisite/Corequisite: Art 30 and Advanced Sculpture 25 with a recommended minimum mark of 80%
Advanced Sculpture is an art class for students who are self-motivated, inquisitive and persistent. We will fulfill curriculum requirements by making some of our own tools and use them for working alongside visiting artists. If made properly, these tools should last a lifetime. We will continue with wood and stone carving projects, have a recycling/repurposing project, and make a project involving kinetic energy. Advanced Sculpture 35 will build upon the student’s work done in the Advanced Sculpture 25 course/program.

Although this class can include some clay work, students wishing to work exclusively in clay should also consider enrolling in the Advanced Ceramics courses.

CHORAL MUSIC

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<tr>
<th>Required Courses</th>
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<th>Optional Courses</th>
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<tr>
<td>Concert Choir 15</td>
<td>+ Choral Music 10</td>
<td>Vocal Jazz 15</td>
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<td>Concert Choir 25</td>
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<tr>
<td>Concert Choir 35</td>
<td>+ Choral Music 30</td>
<td>Vocal Jazz 35</td>
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1420 Choral Music 10 (5 credits) (full year course in the timetable)
Prerequisite: None/Corequisite: Concert Choir 15
This course focuses on the development of vocal skills with an emphasis on learning how to properly use the voice in singing. All students entering the choral program for the first time must register in this course. The curriculum includes a study of basic music skills, the physiology of vocal production, part52 singing and harmonization, the ensemble skills of blend and balance for performance, and the preparation of vocal repertoire for public performance. There is a resource fee of $100 that is collected through the Centennial High Association of Music Parents (CHAMP) to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals, and workshops. This course is full year and extra-curricular involvement will be required.

2420/3420 Choral Music 20/30 (5 credits each) (full year course in the timetable)
Prerequisite: Choral Music 10; Choral Music 20/Corequisite: Concert Choir 25/35
This course continues to add to the skills learned in Choral Music 10 and/or 20. There is a resource fee
of $100 that is collected through the CHAMP to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals, and workshops. This course is full year and extra-curricular involvement will be required.

1414 Concert Choir 15 (5 credits each) (full year course outside the timetable)
Corequisite: Choral Music 10
This is a locally developed performance class for vocalists registered in the music program. Students will enjoy the opportunity to sing choral repertoire with mixed voices. Three/four-part harmony will be used in public performances with an emphasis on developing a standard of excellence in choral music. The ensemble skills of blend and balance will complement the individual vocal skills being developed in the Choral Music 10/20 class. Festival competitions and group travel/touring are made available through fundraising initiatives. There is a resource fee of $100 that is collected through the CHAMP to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals, and workshops. This course is full year and extra-curricular involvement will be required.

2414/3414 Concert Choir 25/35 (5 credits each) (full year course in the timetable)
Prerequisite: Concert Choir 15/Corequisite: One of the following: Choral Music 20/30, Vocal Jazz 15/25/35, Chamber Choir 15/25/35
This is a locally developed performance class for vocalists registered in the music program. Students will enjoy the opportunity to sing choral repertoire with mixed voices. Three/four-part harmony will be used in public performances with an emphasis on developing a standard of excellence in choral music. The ensemble skills of blend and balance will complement the individual vocal skills being developed in the Choral Music 10/20 class. Festival competitions and group travel/touring are made available through fundraising initiatives. There is a resource fee of $100 that is collected through the CHAMP to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals, and workshops. This course is full year and extra-curricular involvement will be required.

1417/2417/3417 Chamber Choir 15/25/35 (5 credits each) (second semester only)
Prerequisite: Chamber Choir 15/25/Corequisite: Concert Choir 15 and Choral Music 10 or Concert Choir 25/35
This is a locally developed performance class for vocalists registered in the music program. Students will enjoy the opportunity to sing choral repertoire with mixed voices at an increased rate and difficulty. Three/four-part harmony will be used in public performances with an emphasis on developing a standard of excellence in choral music. Festival competitions and group travel/touring are made available through fundraising initiatives. There is a resource fee of $100 that is collected through the CHAMP to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals, and workshops. This course is offered in the second semester only and extra-curricular involvement will be required.

1433/2433/3433 Vocal Jazz 15/25/35 (5 credits each) (full year course in the timetable)
Corequisite: Concert Choir 15/25/35
This course is designed to expose the students to all facets of performing in a vocal jazz ensemble. Students will learn proper microphone technique and how to work audio equipment in addition to various vocal techniques. Entrance to this course is by permission of the instructor only based on an audition. There is a resource fee of $100 that is collected through the CHAMP to offset enrichment activities that include the costs for an accompanist, vocal coaching, clinics, festivals and workshops. This course is full year and extra-curricular involvement will be required. All students entering this program must register for this course in conjunction with Concert Choir 15/25/35.

**The resource fee of $100 is applied to all music students regardless of their level of involvement in**
the music department. Students in 4 music classes pay $100, the same as students in 1 class.

**DRAMA**

**1410 Drama 10** (5 credits)
*Prerequisite: None*
*Cost: $40.00 for High School Drama Festival Fees*

Drama 10 is an introduction to drama. Students will develop fundamental performance and theatre skills by studying a variety of theatre disciplines. These disciplines include movement, speech, improvisation, script work, acting, technical theatre and theatre history. The nature of this course is interactive and students will be expected to participate and to demonstrate their learning daily. Through this course, students will explore theatre as a creative expression of the human condition.

**2410 Drama 20** (5 credits)
*Prerequisite: Drama 10*
*Cost: $40.00 for High School Drama Festival Fees*

Drama 20 is a performance based course which places greater emphasis on the individual as a creator, performer, historian, critic, and patron thereby developing an appreciation for theatre as a traditional art form. They will be responsible to perform in solo and ensemble presentations for the class and an audience. The theatre disciplines covered in this course will be acting, speech, movement, improvisation, playwriting, design, and technical theatre.

**3410 Drama 30** (5 credits)
*Prerequisite: Drama 20*
*Cost: $40.00 for High School Drama Festival Fees*

Drama 30 is focused on acting and directing. Students will continue to enhance their performance skills as an actor as they work collaboratively with others to study scene structure and theatre literature. The theatre disciplines covered in this course will be acting, speech, improvisation, directing, design, and technical theatre.

**1979 Musical Theatre 15** (5 credits)
*Pre/Corequisite: Drama 10, Music 10 and/or teacher approval*

This course allows students to share their particular strengths in music, dance and/or drama, while developing new skills in each. Students learn the history of musical theatre through practical application and performance.

**2979 Musical Theatre 25** (5 credits)
*Prerequisite: Musical Theatre 15*

This course is more student-initiated and concentrates on small group activities. The focus for students at this level is on piecing together musical numbers to create an original and unique performance.

**3979 Musical Theatre 35** (5 credits)
*Prerequisite: Musical Theatre 25*

In this course, students use the skills developed in Musical Theatre 15 and 25 to direct a variety of musical numbers. Students will coach their peers and demonstrate proficiency in all aspects of musical theatre.

**1987 Technical Theatre 15** (5 credits)
*Prerequisite: Drama 10 or teacher approval*

This course is a practical application of such disciplines as costume, make-up, lighting, business
management, house management, stage management, properties, set, and sound. While any one component may be a focus, students in Technical Theatre 15 are expected to have a good general working knowledge of all the components. Students are encouraged to be involved in the school productions to further apply their knowledge and enhance their understanding.

**2987 Technical Theatre 25 (5 credits)**

*Prerequisite: Technical Theatre 15*

This course allows the student to focus on one component from Technical Theatre 15 and take on increased responsibilities for the chosen component through the production year. Technical Theatre 25 students may also be required to assist in peer coaching of the Technical Theatre 15 students. Students are encouraged to be involved in the school productions to further apply their knowledge and enhance their understanding.

**3987 Technical Theatre 35 (5 credits)**

*Prerequisite: Technical Theatre 25*

At this level students will be expected to take on a leadership role as technical director for a given production within the school year. Students are encouraged to be involved in the school productions to further apply their knowledge and enhance their understanding.

**1975, 2975, 3975 Acting Touring 15/25/35 (5 credits each level)**

*Prerequisite: Drama 10 or teacher recommendation. Fall and Spring Production classes will be audition based and outside the timetable.*

*Cost: $40.00 for High School Drama Festival Fees*

Acting Touring is a specific discipline worth of study and is an integral part of the Fine Arts program which is process driven, ending with a public theatrical performance. This course provides an opportunity for students to synthesize their learning from Drama 10/20/30, within a performance experience that will encourage young students to develop their creative and critical thinking through the study of and reaction to theatre. This practical experience is necessary for students to deepen their understanding of theatre, and transfer this knowledge into future endeavours.

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**INSTRUMENTAL MUSIC**

The music program at Centennial High School provides students with the opportunity to develop their personal and musical skills and expand their experiences in a blended program that makes meaningful connections to future goals and post-secondary study. Students participating in the instrumental music program must be enrolled in a technique/skill building class (Instrumental Music – Band 10/20/30) as well as performance/rehearsal class (Instrumental Music 15/25/35). Special exceptions to this may be made with teacher approval that is based on student musical ability and understanding. Students with Royal Conservatory of Music Certification, may be eligible to receive advance credits for Music 10/20/30. Please contact the music department/guidance department for more information.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<td>Music 30</td>
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1424 **Music 10 Beginning Band** (5 credits) First semester only, in the regular timetable.  
*Prerequisite: No previous music experience required*

This course is designed for students with no previous junior high school band experience that wish to learn how to read music notation along with basic skills on a traditional band instrument. Instrument rentals are available through the school for a cost of $100 and may include flute, clarinet, trumpet, trombone, euphonium, tuba or percussion. Students wishing to study saxophone may do so but must rent an instrument. While this course will provide basic instruction in instrument skills, musical literacy and music listening, it will not include enrichment activities provided in the regular band program including clinicians, camps, trips, festivals, recitals, etc. Students will participate in one evening demonstration concert at the end of the semester. Upon completion of this course, students may audition for the regular, enriched band program.

**Students that have band experience should enrol in Instrumental Music 10/20/30 and the Corequisite Symphonic Band 15/25/35.**

1425 **Music 10** (5 credits) (full year course in the timetable backed with P.E. 10)  
*Prerequisite: Previous music instruction or department approval  
Corequisite: Band 15 Symphonic*

This course is a sequential extension from Junior High Band classes. There is a continued study of tone and technique, articulations, rhythms, theory and transposition, as well as the mastery of instrumental technique required for solo and ensemble performance. Instruments may be rented from the CBE for a cost of $100 and there is an additional resource fee of $100 that is collected through the Centennial High Association of Music Parents (CHAMP) to offset the cost of various enrichment activities.

1439 **Band 15 Symphonic** (5 credits) (full year course outside the timetable, two early morning rehearsals 7:15 – 8:30 am days TBA)  
*Prerequisite: Previous music instruction or teacher approval  
Corequisite: Music 10*

This course is a locally developed performance class for instrumentalists registered concurrently in the grade 10 instrumental music program. Students enjoy opportunities to test their instrumental skills in a large group performance setting. Emphasis is placed on ensemble skills such as blend, balance, tuning and the aesthetics of good performance. Students also learn to work together for shared performance goals. Festival competitions and group travel/touring are made available through fundraising initiatives.

1431 **Jazz Band 15** (5 credits) (full year course outside the timetable, two after school rehearsals 3:45 – 5:00 pm days TBA)  
*Corequisite: Music 10 and Band 15*

This is a locally developed performance class for instrumentalists registered concurrently in the grade 10 instrumental music program. Students enjoy opportunities to explore the skills required to play a jazz repertoire. An overview of jazz history supports the exploration of big band and combo work with an emphasis on the development of listening skills and improvisation.

2425 **Music 20** (5 credits) (full year course in the regular timetable backed with English 20 coursework)  
*Prerequisite: Music 10 & Band 15 or teacher approval  
Corequisite: Band 25 Symphonic*

This course is a sequential extension of Music 10 with an emphasis on the development of more advanced instrumental skills. Instruments may be rented from the CBE at a cost of $100 and there is an
additional resource fee of $100 that is collected through the CHAMP to offset the cost of various enrichment activities.

**2439 Band 25 Symphonic** (5 credits) (full year course outside the regular timetable, two early morning rehearsals, 7:15 – 8:30 am days TBA)
Prerequisite: Music 10 and Band 15 or teacher approval
Corequisite: Music 20
This is a locally developed performance class to instrumentalists registered in the Music 20 program. Students enjoy opportunities to explore advanced repertoire for wind band. Emphasis will be placed on establishing an outstanding ensemble, recognized by its attention to tone, technique and artistry in performance. Festival competitions and group travel/touring are available through fundraising initiatives.

**2431 Jazz Band 25** (5 credits) (full year course outside the regular timetable, two after school rehearsals, 3:45 – 5:00 pm days TBA)
Prerequisite: Jazz Band 15/Corequisite: Music 20 and Band 25 Symphonic
This course will be a continuation of the jazz skills developed in grade 10 with added challenge in the area of improvisation, solo/combo work and advanced jazz charts. Festival competitions and group travel/touring are available through fundraising.

**3425 Music 30** (5 credits) (full year course in the timetable backed with English 30 course work)
Prerequisite: Music 20 & Band 25 or teacher approval
Corequisite: Music 35
This course is a sequential extension of Music 20 with an emphasis on the development of more advanced instrumental skills. Instruments may be rented from the CBE and there is an additional resource fee of $100 that is collected through the CHAMP to offset the cost of various enrichment activities.

**3439 Band 35 Symphonic** (5 credits) (full year course outside the regular timetable, two early morning rehearsals, 7:15 – 8:30 am days TBA)
Prerequisite: Music 20 and Band 25 or teacher approval
Corequisite: Music 30
This is a locally developed performance class to instrumentalists registered in the Music 30 program. Students enjoy opportunities to explore advanced repertoire for wind band. Emphasis will be placed on establishing an outstanding ensemble, recognized by its attention to tone, technique and artistry in performance. Festival competitions and group travel/touring are available through fundraising initiatives.

**3431 Jazz Band 35** (5 credits) (full year course outside the regular timetable, two after school rehearsals, 3:45 – 5:00 pm days TBA)
Prerequisite: Jazz Band 25
Corequisite: Music 30 and Band 35
This course will be a continuation of the jazz skills developed in grade 11 with added challenge in the area of improvisation, solo/combo work and advanced jazz charts. Festival competitions and group travel/touring are available through fundraising.

**The resource fee of $100 is applied to all music students regardless of their level of involvement in the music department. Students in 4 music classes pay $100, the same as students in 1 class.**
SECOND LANGUAGES

Note: University entrance into General Studies and some other faculties, a mark in French 30 or Spanish 30 may be used to replace Math 30-1. Please see your Guidance Counsellor for further information and other opportunities.

FRENCH LANGUAGE AND CULTURE

1093 French Language and Culture 10 (5 credits)
Prerequisite: None
French 10 is recommended as a course for beginners as well as for those who do not have a solid foundation in French. This course is theme-related and aimed at developing the ability to communicate. Class participation, listening, written exercises, tests and dialogues measure the progress of each student. A significant portion of the coursework will be done in a course workbook which can be purchased from the school.

2093 French Language and Culture 20 (5 credits)
Prerequisite: recommended minimum mark of 65% in French. Students who have received less than 65%, or who have taken French in Junior High or in another school may enrol in French 20 if they possess a strong knowledge of conjugating verbs in the present tense, including the verbs être, avoir, faire and aller; and of interrogative sentences (question words).
The French 20 course will continue to meet all the requirements involving the theme-based curriculum as set out by Alberta Education. The emphasis continues to be on both oral and written production. Class participation, listening, written exercises, tests and dialogues measure the progress of each student. Themes will include friends, fashion, leisure activities and shopping. A significant portion of the coursework will be done in a course workbook that can be purchased from the school.

3093 French Language and Culture 30 (5 credits)
Prerequisite: recommended minimum mark of 65% in French 20. Students who have received less than 65%, or who have taken French Immersion or studied French in another school may enrol in French 30 if they possess a strong knowledge of the present tense, past tense, imperfect and future tense of verbs, the use of the pronouns y and en and the use direct and indirect object pronouns.
This course continues to develop communicative skills along with the required thematic concepts. Themes include travel, media and the world of work. Both oral and written productions are emphasized. Class participation, listening, written exercises, tests and dialogues measure the progress of each student. A significant portion of the coursework will be done in a course workbook that can be purchased from the school.

SPANISH LANGUAGE AND CULTURE

1345 Spanish Language and Culture 10 (5 credits)
Prerequisite: none
Spanish 10 is a beginner-level course for those students who have little or no knowledge of Spanish and who would like to acquire a basic knowledge of the Spanish language. This course is designed to develop the six basic communicative skills: reading, writing, listening, speaking, viewing and representing. The geography of Spanish-speaking countries and their contemporary life is integrated into the lessons which will include increasing the learner’s cultural understanding and appreciation for other cultures. A significant portion of the coursework will be done in a course workbook which can be purchased from the school and used for the Spanish 20 course as well.
2345 Spanish Language and Culture 20 (5 credits)
Prerequisite: recommended minimum mark of 65% in Spanish 10. Students who have received less than 65%, or who have taken Spanish in Junior High or in another school may enrol in Spanish 20
Spanish 20 further develops skills learned in Spanish 10 and focuses on new vocabulary, grammar structure and the use of past tense to explore a variety of themes including food, shopping, sports and health, home and daily routine. Students may use their Avancemos workbooks from Spanish 10 for the Spanish 20 course. A significant portion of the coursework will be done in the workbook. If a student does not have a workbook from Spanish 10, they may purchase one from the school.

3345 Spanish Language and Culture 30 (5 credits)
Prerequisite: recommended minimum mark of 65% in Spanish 20. Students who have received less than 65%, or who have taken Spanish in Junior High or in another school may enrol in Spanish
Some of the themes highlighted in the Spanish 30 course are relationships, the arts, activities and hobbies, the environment and the world of work. Skills learned in Spanish 20 will be further developed and new forms of past tense, future tense, conditional and subjunctive tenses will be learned.
HUMANITIES

3154 Aboriginal Studies 30 (5 credits)
Prerequisite: Social Studies 10-1 or 10-2 and an interest in learning about Aboriginal cultures
Aboriginal Studies offers students an opportunity to explore Aboriginal cultures in Canada and around the world. Students will examine a range of art forms, films, oral histories, literature, tribal customs, government laws and policies, and Aboriginal responses to better understand Aboriginal people today. The challenges faced by key historical figures, such as Big Bear, Poundmaker, Crowfoot and Small Boy, will shine light on the current challenges facing Aboriginal communities. Field trips will be an integral part of the course, and may include Blackfoot Crossing, Head-Smashed-In Buffalo Jump and the Glenbow Museum Blackfoot Confederacy Collection.

1269/2269/3269 Creative Writing and Publishing 15/25/35 (5 credits each)
Prerequisite: Strong interest in creative writing and the writing process. Must be taken in sequence
This series of courses provides students the opportunity to develop their writing interests and passions with practice in a variety of genres. They are encouraged to experiment with new ideas and concepts as they learn to manage and market their writing portfolios.

1444 Film Studies 15: History of Film (5 credits)
Prerequisite: Strong interest in Film
This course is designed to introduce students to the development of film as a distinct form of art, technology and communication. Film Studies 15 students will focus on the development and history of the film industry and the various theories and technological advancements that have transformed it into the powerful social force that it is today.

2444 Film Studies 25: Canadian and International Film (5 credits)
This course is designed to increase students’ awareness of film as a distinct form of art, technology and communication. Film Studies 25 will focus on an exploration of the film industry in Canada and the world, with emphasis on the history of the Canadian film industry and specific international movements such as Italian Neorealism and French New Wave. Learner outcomes in Film Studies 25 rely on the foundation of knowledge built into the Film Studies 15 course. While there is no pre-requisite for this course, students without Film Studies 15 may find the outcomes more challenging to meet.

3444 Film Studies 35: Theory of Film (5 credits)
This course is designed to be a comprehensive overview of film and how this text explores the relationship between form and content. Film Studies 35 students will view a broad range of films paying specific attention to how what is filmed is influenced by how it is filmed and vice versa. Learner outcomes in Film Studies 35 rely on the foundation of knowledge built into the Film Studies 25 course. While there is no pre-requisite for this course, students without Film Studies 25 may find the outcomes more challenging to meet.

1696/2696/3696 Journalism 15/25/35 (5 credits each)
Prerequisite: Strong interest in Journalism; Must be taken in sequence
This sequence of courses takes an in-depth look into the fast-paced world of media communications. Students learn techniques to help them improve their writing and develop their research skills. The curriculum includes the creation of written pieces, applied photography, and the creation of video broadcasts. These courses provide students with the opportunity to explore various media, while
learning about the influence and the ethics of the journalism industry.

**1167 Military Studies 15 (5 credit course)**

*Cohort Prerequisites: Social Studies 10-1 or 10-2*

Military Studies is offered at Centennial High School in tow 5 credit courses. This is an option for Grade 10, 11, and 12. There are many different aspects to Military History on a tactical, political, and philosophical front. Students take a trip through the History of the world, beginning with the first battles of Kadesh to current day military ventures. Canada’s military heritage is fundamental to Military History. Although a young country, Canada has always “battled above its’ weight” in any major conflict. Students of Military History will gain an appreciation of Canada’s contribution to War and how it has helped shape us as a nation. Key areas include, Alexander the Great, War of 1812, World War II, and the Vietnam War.

**2167 Military Studies 25 (5 credit course)**

*Prerequisites: Military Studies 15*

Military Studies 25 is the second class of the program at Centennial High School. Military Studies 25 develops more in-depth aspects of how Military History works in conjunction with political and social realities. Military Studies 25 will continue to develop key areas of tactics, legacies, causes, and purposes of military ventures of nations. Key areas of Military Studies 25 are The Vikings, World War I, Napoleonic Wars, and the Balkan Wars.

**2172 Psychology 20 (two 3 credit courses bundled for 6 credits)**

*Prerequisite: Social Studies 10-1 or 10-2 and an interest in human behaviour*

General Psychology 20 and Personal Psychology 20 examine the nature of the discipline and its history, as well as careers in the field. Topics of study include: the nature of learning and the application of psychology to learning; emotions, conflict, and behaviour disorders; personality; individual behaviour; intelligence; and how biology, heredity and environment influence psychology.

**3172 Social Sciences 30 (two 3 credit courses bundled for 6 credits)**

*Prerequisites: Social Studies 20-1/20-2*

This senior level option includes Experimental Psychology 30 and Applied Sociology 30. Students examine the nature of the disciplines. The psychology course introduces the theory and practice of experimental psychology. Students will be expected to do a field research project of their own. The sociology course demonstrates how research can be applied to give insight into issues like crime and youth rebellion as well as providing an expanded understanding of relationships and social change.

**2715 Studies in Government and Politics 20/30 (two 3 credit courses bundled for 6 credits)**

*Prerequisite for Comparative Government 20: Social 10-1 or 10-2 and teacher recommendation.
Prerequisite for International Government 30: successful completion of Comparative Government or teacher recommendation.*

**Comparative Government 20:** The objective of Comparative Government 20 is to compare and contrast the Canadian political process to the system(s) adopted in the United Kingdom, the United States of America and the Union of Soviet Socialist Republics. Central to the study of Comparative Government will be an examination of the differences between dictatorships and democracies as well as the ideological differences that exist between nation-states.

**International Politics 30:** The objective of International Politics 30 is to give the student an understanding of the development and importance of international relations. This understanding is brought about by examining such concepts as balance of power, territorial rivalry, ideological rivalry, international peace forums and international economic relations. Included in this study of International
Politics will be examining the nature and evolution of power in international relations, with a focus on the twentieth century, and specifically on events from the cold war era to present day. Students will examine the costs and benefits to various foreign policies.

**2700 Studies in Religions 20/30** (two 3 credit courses bundled for 6 credits)

*Prerequisite: Social Studies 10-1 or 10-2 and teacher recommendation*

**Religious Meanings 20** will explore ways that humankind searches for religious meanings through text, practice, experience and ritual. Students will be able to identify the tenets of the major current world religions and how adherents make meaning of their religious faith. Included will be consideration of social, political and cultural issues associated with religious faith. The continued use of inquiry and research skills will be an essential element of the course.

**World Religions 30** introduces students to an exploration of major current world religions: Buddhism, Christianity, Hinduism, Islam, Judaism and Sikhism. This course will provide students with an awareness of the nature, place and function of religions. Using inquiry and research skills, students will explore the history and contemporary manifestations of religion.
2754 Forensic Science 25/35 (6 credits)
Prerequisite: recommended minimum mark of 60% in Science 10
Introductory and Advanced Forensic Science are each worth three credits and are taken consecutively in the same semester.
Forensic Science is the study of scientific concepts and technologies related to solving crime. Through the study of forensic science techniques, students are given the opportunity to explore and further understand how basic scientific concepts apply specifically to this unique field of study. Topics covered include: crime scene investigation, hair, fiber and fingerprint analysis, body fluids, DNA analysis, document analysis, polygraph testing, alcohol and drugs, Forensic Anthropology, Forensic Entomology, Toxicology, and Ballistics, Police Protective Equipment, Criminal Profiling, Arson and Police Services Canines.

1800 Outdoor and Environmental Science 10 (OES 10) (Phys. Ed 10 and Science 10 with two 1 credit CTS courses) (Full year, one period each semester)
Prerequisite: Science 9 and Math 9 with recommended minimum mark of 60%
Cost: $150.00. All trips are elective and costs are supplementary based on participation.
Outdoor and Environmental Sciences 10 is a dynamic and exciting course at Centennial High School. Combining elements of Physical Education, Science, and Outdoor Education students will conduct environmental exploration and investigate fun and adventurous components (hiking, camping, navigation, mountain biking, cycling, etc.). The course will include classroom sessions, field sessions, day trips and overnight trips.

2800 Outdoor and Environmental Science 20 (OES 20) (Biology 20, CALM and four 1 credit CTS courses) (Two periods)
Prerequisite: Science 10 with a recommended minimum mark of 50% in Science 10
Course Cost: $200.00
Trip Cost: All trips are elective and costs are supplementary based on participation.
OES 20 combines Biology 20 with CALM and CTS Outdoor Education modules to encompass an afternoon. Students will have the opportunity to explore human anatomy by becoming certified in wilderness first aid, conduct ecological field studies in Fish Creek Park, and participate in a backpacking trip in Kananaskis. Additionally, students will complete the academic components of Biology and CALM. Potential outdoor activities include; geocaching, kayaking, hiking, cross country skiing, and snowshoeing.

3800 Outdoor and Environmental Science 30 (OES 30) (ten CTS courses) (Two periods)
Prerequisite: Biology 20 and OES 20 CTS courses
Course Cost: $200.00
Trip Cost: All trips are elective and costs are supplementary based on participation.
The grade 12 program will focus on the student developed research projects that connect the previous two years of knowledge and experience into outcomes that will improve the sustainability of their community. The grade 12 students will continue all of the previous developed skills but now will act as leaders in the community. Each student’s project will be showcased in a public video presentation in Fish Creek Park.

**The CTS courses for OES10, OES 20, and OES 30 will be drawn from the Natural Resources (NAT) Cluster as described on page 51. The specific courses will be linked to the hands on experience of students, which vary each semester.**
PRE-ENGINEERING

1222 Pre-Engineering 15 (5 credits)
Prerequisite: recommended minimum mark of 70% in grade 9 Math & Science
This program is unique to Centennial High School and is in fact the first of its kind in Western Canada. Pre-Engineering students are engaged in a very independent and diverse learning environment and therefore need to be strong independent learners. In addition to classroom studies, students work in a technical lab where multimedia curriculum is combined with hands-on application of theory. Students move through a variety of different modules including Fluids, Electrical Systems, Computer Aided Design, and Robotics to name a few. The knowledge gained from these modules and classroom activities will be used to complete a master project for the semester.

2222 Pre-Engineering 25 (5 credits)
Prerequisite: Pre-Engineering 15
At the intermediate level, students continue to build upon the knowledge gained in the grade 10 course. Students will further explore the various challenges faced by engineers. The lab remains the focus as students move forward to solve the challenging problems related to Fluids, Electrical Systems, Computer Aided Design, Robotics as well as additional modules. A strong independent work ethic remains paramount for success.

3222 Pre-Engineering 35 (5 credits)
Prerequisite: Pre-Engineering 25
This advanced level of the Pre-Engineering program provides students the opportunity to advance their learning in areas studied in the pre-requisite Pre-Engineering 15 and 25 courses. In addition to the broad-based learning, all students will develop an area of expertise through a more focused approach on a module of their choosing. Students in Pre-Engineering 35 will also be exposed to several new modules including Materials Analysis, Structural Systems, Pump Systems, and Mechanical Drives. These modules require a more advanced understanding of math and physics principles than earlier studies. All curricula involve higher levels of learning and problem-solving, while maintaining the learning strategy of linking theoretical knowledge with hands-on application. Learning will continue to be very independent, with the teacher providing direction and facilitation as required by the students.
PHYSICAL EDUCATION

Physical Education offers courses that encourage active lifestyles. Students will enhance their social, physical and creative qualities and will promote leadership development and body awareness through a variety of life skill activities. The main focus of our program is to help students achieve overall health and wellness. *PLEASE NOTE THAT THE COSTS ASSIGNED ARE ESTIMATES*

1445 (Boys) or 1446 (Girls) Physical Education 10 (5 credits) **These classes will be co-ed**
1447 Physical Education 10 for Band Students (5 credits)
This entry level course focuses on developing a student's participation in a healthy, energetic lifestyle. Taught as a modular program, students will design individual schedules of studies based on their interests and goals. Aspects of this exciting program (which are mandatory) include weight room orientation, general fitness and nutrition knowledge, and social dance. Self-selected aspects of the program include team games such as soccer, basketball, and individual sports such as badminton and bowling.

2445 Physical Education 20 (5 credits)
Prerequisite: Physical Education 10
Cost: $190.00
This intermediate course focuses on active living through experiences in a wide variety of lifestyle sports and activities. Golf, tennis, hiking, wall climbing, snowshoeing, curling, racquetball, squash, and billiards are a sample of what will be offered in this exciting and energetic course. Students will be expected to build on skills, knowledge, and attitudes gained in PE 10 and should be prepared to be active each day. Much of the course is off-site so students must be prepared to take on the responsibilities of travel and representing our school in the community. Students are required to do 5 service hours within the school.

3445 Physical Education 30 (5 credits)
Prerequisite: Physical Education 20
Cost: $200.00
This senior course builds on the knowledge and experience gained in PE 20. Students will be challenged to perform at higher individual levels in various on and off campus activities. Leadership, peer teaching, and self-evaluation are important aspects of this program. All the lifestyle activities will be offered at a more advanced level than in PE 10. A 2-day camping adventure is part of the program of studies and the students are expected to be full participants in this major trip. Students are required to do 10 volunteer hours within the community.

This course is for students who have had success in previous levels, who are very interested in sports and healthy lifestyles and who may be considering post secondary or employment opportunities in related fields.

1813 Sports Medicine 10 (five 1 credit courses)
Prerequisite: none required
Cost: $110.00
This is a grade 10 course providing basic information on anatomy, injury recognition assessment, and certification in CPR and First Aid. Students will have many opportunities for hands-on activities in a variety of labs, including athletic taping. Students must be prepared to volunteer as a sports trainer with sports team(s) for practicum hours (20 hours). Evaluation is based on theory and practical skills.
2813 Sports Medicine 20 (five 1 credit courses)
Prerequisite: HSS1010 Health Services Foundations, REC1020 Injury Management 1, HCS1050 Musculoskeletal System, REC1030 Technical Foundations
Cost: $110.00
This course is a continuation of Sports Medicine 10. Students will expand both their theoretical and practical knowledge. Work will also be done on athletic injury rehabilitation. Students must be prepared for volunteer hours as an athletic trainer with a sports team (40 hours). Evaluation is based on theory and practical skills.

3813 Sports Medicine 30 (five 1 credit courses)
Prerequisite: HSS1010 Health Services Foundations, REC1020 Injury Management 1, HCS1050 Musculoskeletal System, REC1030 Technical Foundations, REC2020 Injury Management 2
Cost: $110.00
This course is a continuation of Sports Medicine 10 and 20. Students will be expected to take a leadership role in the operation of the Sports Medicine room, and be the head trainer for a sports team at Centennial High School. Work will also be done on athletic injury rehabilitation. This will require a large time commitment, but many of these Sports Medicine 30 students will be looking at a career in the biomedical field. A minimum of 50 practicum hours outside of class time will be required to complete the course. Evaluation is based on both theory and practical skills.

1448 Sports Performance 10 (five 1 credit courses)
Prerequisite: none required
Cost: $50.00
This is a demanding high-level course to provide active individuals with the knowledge, skills and attitudes to understand the variety of factors related to sports performance. Students will gain an understanding of current training principles, performance enhancement, and performance. Students wanting to take this course should be focused on training for athletics not recreation.

2448 Sports Performance 20 (five 1 credit courses)
Prerequisite: minimum three credits in Sports Performance 10
Cost: $50.00
Students in this course will have the opportunity to investigate, develop and implement a fitness program specifically for their high level sport. Students should be athletes at a competitive level. Strength, speed, agility, power, flexibility, endurance and core stability will all be implemented.

3448 Sports Performance 30 (five 1 credit courses)
Prerequisite: minimum three credits in Sports Performance 20
Cost: $50.00
Students in this course will have the opportunity to investigate, develop and implement a fitness program specifically for their high level sport. Students should be athletes at a competitive level. Strength, speed, agility, power, flexibility, endurance and core stability will all be implemented.

1126/2126/3126 Student Leadership 10/20/30 (five 1 credit courses)
Prerequisite: Interest in making a difference at Centennial High School. Students wanting to enrol in the 20 or 30 level must have a teacher recommendation.
This course is designed to teach leadership skills. Basic leadership skills will be taught in the classroom and then put into practical use through activities offered at the school. In the class, students can expect to be involved in some traditional desk work as well as high energy, interactive activities that teach leadership skills. The class will be involved in putting on many of the key activities in the school. These include: lunchtime activities, pep rallies, staff and student recognition, service projects
and other student-driven initiatives. This class also provides students with the opportunity to attend provincial and national student leadership conferences.
OFF CAMPUS

For enrolment in these programs students are required to see the Work Experience/RAP teacher in the Library.

Work Experience 15/25/35 (3 to 30 credits/up to 15 credits toward Grade 12 Diploma)
Prerequisite: Workplace Safety Systems (HCS3000)
These courses focus on development and application of employability skills at a paid job or volunteer placement. Students are supervised in partnership between employers and an off-campus teacher coordinator from the school. Twenty-five hours of work is required to earn 1 credit, however a minimum of 75 hours (3 credits) must be completed in order to earn credits. For more information, visit the Off-Campus Office/Career Centre, or Guidance Office.

Registered Apprenticeship Program (RAP) (5 to 40 credits toward Grade 12 Diploma)
Prerequisite: Workplace Safety Systems (HCS3000)
Work on your Alberta Journeyman Certification and High School Diploma at the same time! This program permits students to enrol concurrently in a high school program while working as a registered apprentice in a designated trade. There are 50 designated trade occupations in Alberta to choose from. Students are able to complete their compulsory high school subjects while earning credits, experience, and wages on the job. Students may choose to complete their apprenticeship hours during summer months, evenings, half-days, or one-semester per year depending on individual circumstances. Entry to this program is competitive and involves an application and interview process.

Volunteer Work (In some cases Work Experience 15/25/35 credits may be granted.)
Prerequisite: Workplace Safety Systems (HCS3000) if seeking credits
Volunteering gives you a chance to explore various occupations and fields of work through first-hand experience. It means sharing your skills and time without being paid. The benefits include an opportunity to develop skills, gain experience, and meet people that may help guide you in your career pathway. Many volunteer experiences can lead to meaningful paid work opportunities that may not otherwise be easily attainable and satisfy the requirements for post secondary programs.

Summer Work Experience & Internships
Prerequisite: Workplace Safety Systems (HCS3000) (3 to 30 credits/up to 15 credits toward Grade 12 Diploma)
The summer internship program offers an opportunity for students to earn credits, valuable experience, and most often wages in occupational areas of interest. These internships usually take place for six to eight weeks in the summer months. Students are granted Career Internship 10 or Work Experience credits for completing an internship.

Green Certificate: Agricultural Training
Students enter agriculture-related, structured learning pathways, as part of their senior high program, that support practical training for careers in agriculture and related industries. Up to 16 high school credits can be achieved and students can earn an industry recognized technician-level Green Certificate Credential. The Green Certificate is under the administration of the Department of Alberta Agriculture and Rural Development.

Students learn by actively performing agricultural skills through apprentice-style training sessions delivered off campus. Students are responsible for independently accessing a farm or agricultural placement, during after school hours or as part of their personal learning plan. Learning takes place
under the direction of experienced farm personnel, under the supervision of a CBE supervising teacher and administration of Alberta Agriculture and Rural Development. Students are assessed at the conclusion of the courses by booking practical in-person exams at Olds College with exam marks contributing to the final mark in Alberta Education course listings. Students can select a specialization based on their interest and chosen farm site. These specializations include: Equine, Cow-Calf, Dairy, Feedlot, Swine, Sheep, Beekeeping, Field Crop or Irrigated Crop. More information is available at the Green Certificate website: http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/grc6643
EXTRA-CURRICULAR ACTIVITIES

Please don’t sit on the sidelines of life and watch it pass you by! Take that risk and get involved. You will improve yourself and the school as we strive to be the best we can be!

Extra-curricular activities help students: Get to know their school! Make new friends! Get involved!

Athletics

- Jr. & Sr. Football teams
- Jr. & Sr. Volleyball teams
- Jr. & Sr. Basketball teams
- Girls & Boys Soccer teams
- Cross Country Running
- Wrestling
- Track & Field
- Badminton
- Swimming
- Jr. & Sr. Girls Field Hockey
- Girls Rugby
- Boys Rugby

Clubs

At Centennial High School we have a wide variety of clubs and organized groups to join. Here is a list of some of the planned clubs for the 2014-2015 school year:

- Art Club
- Athletic Leadership
- Chess Club
- Community Connections
- Coyote Press Club
- Drama/Theatre
- French & Spanish Club
- Gay/Straight Alliance
- Guitar Club
- HITT Program
- HYRS/WISEST
- International Certificate
- Leadership
- Math Competitions
- New Media
- Robotics
- Rock/Wall Climbing
- Science Competition
- Science Olympics
- Skills Canada
- Social Justice Club
- Student Voice
- Yearbook
- Yoga
- Young Blood for Life

Intramural Activities and Leadership Events: (which may include)

- Floor Hockey (CHL)
- Basketball (3 on 3)
- Arena Football
- Charity Fundraisers
- Link Crew
- Talent Shows
- Volleyball
- Dodgeball
- Other fun activities
## Centennial High School Program Planner

### Course Mark Cr.

<table>
<thead>
<tr>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Mark</strong></td>
<td><strong>Cr.</strong></td>
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<tr>
<td>English</td>
<td>English</td>
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<tr>
<td>Social Studies</td>
<td>Social Studies</td>
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<tr>
<td>Math</td>
<td>Math</td>
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<tr>
<td>Science</td>
<td>Science</td>
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<tr>
<td>Phys Ed 10</td>
<td>CALM</td>
<td></td>
</tr>
</tbody>
</table>

### Grade 10 credits

- To Date

### Grade 11 credits

- To Date

### Grade 12 credits

- To Date

### High School Diploma Requirements

- English 30-1 or 30-2
- Social Studies 30-1 or 30-2
- Math – any grade 11 Math
- Science - any grade 11 Science
- 10 credits in CTS, Second Languages, Fine Arts, or PE 20 & 30
- 10 credits in 30 level courses in addition to English & Social Studies

### KAE Certificate of Achievement Requirements

- English 20-2 or 30-4
- Social Studies 10-2 or 20-4
- Math 10-3 or 20-4
- Science 14 or 20-4
- 5 credits in RAP 30 OR
- 5 credits in each of Work Experience 30 AND a 30 Level CTS course

### Transition Plans

- English
- Social Studies
- CALM