

CENTENNIAL SCHOOL

Course Planner

for Students & Parents



2018-2019 SCHOOL YEAR

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Start-Up

The Course Planner book is designed for new and returning students to Centennial. If you are currently a Grade 8 student, you don't need the printed version of this book. A much shorter handout has all the information you will need, and if you want to do advance planning for your future years, you can always consult the online PDF version.

Instructions

1. Obtain the **COURSE REQUEST WORKSHEET** corresponding to your grade level. With it, you can start to create your list of requested courses. You can find the worksheet on our school website under Publications if you did not get a paper copy at school.
2. Look at your **RESULTS** from the current year. How did you do? You will need to consider those results as you choose new courses.
3. Think carefully about what your interests are. We offer many types of courses that you can choose for your **ELECTIVES**.
4. **SUPPORTS**: Know that there are many people to help you with the process of requesting courses: your parents/guardians, teachers, counsellors, administrators, and even your fellow students.
5. Make sure you know the due dates for the **COURSE REQUEST WORKSHEET**
6. Begin by reading through the sections on how to choose **MATH, ENGLISH**, and other courses.

Supports For Students

LEARNING CENTRE (LC)

The Learning Centre provides support to any student who is experiencing difficulties in any subject area. Specialized topics such as study skills, test taking and test preparation strategies, as well as note taking hints are provided. Computer tutorials in English grammar and mechanics supported by a language lab are available on request. Individualized assistance is offered in paragraph and essay development. Support teachers are available for students who need extra help in math, science, English and/or social studies. Subject teachers and/or counsellors can assist students in accessing the LC.

ACADEMIC ASSISTANCE

Students may need additional assistance at different times during the school year to meet the learning outcomes of the courses they are taking. Students requiring support should begin by meeting with their teacher during class time, or at a time agreed upon by the teacher. If a student is not meeting the outcomes of the course with this level of support, external tutoring or extra resource time may be required.

Some students may be offered the assistance of Peer Tutors, who are strong students able to assist other students with organisation and understanding of assignments. Peer Tutors will not do the work for the students who are struggling, but will help them successfully complete their own work. Some students may be assigned to the LEC for additional support with a learning support teacher.

LIBRARY

Instruction is provided to all students on a class or an individual basis (please come in and ask a librarian for an orientation). The student GO-CARD serves as ID and a library card.

As well as the continually updated and vast collection of fiction and non-fiction titles, the library also offers:

- Twenty Laptops that can be signed out by individual students.
- Special collections including reference, EAL, young adult fiction and current magazine titles
- Online resource access 24 hours through the school's website: www.sd43.bc.ca/secondary/centennial
- A coin operated photocopier

Individualized Learning Assistance

LEARNING CENTRE

Individual instruction and assistance and standardized educational testing are available to all students in the Learning Centre (LC). Learning assistance teachers monitor the progress of all students with identified learning needs. They meet with teachers, parents, and students to develop individual education plans (IEP's) which facilitate the full inclusion of students into regular classrooms. In some cases, students are assigned to the LC for a scheduled block of assistance; attendance is then compulsory.

SKILL DEVELOPMENT

The Skill Development Centre encourages and supports academic, social, and physical independence for students with special needs. Instruction is based on individual education plans (IEP's), which focus on each student's unique strengths and needs. Students work in the Skill Development classroom and in integrated classes with support from education assistants, peer tutors, and special needs teachers. Work experience and some community training are also a part of the Skill Development Program.

Counselling

<http://www.sd43.bc.ca/school/centennial/ProgramsServices/Counselling/Pages/default.aspx>

Counselling help is provided in the following areas:

- program and course selection, academic counselling & problem-solving, tutorials, study skills
- orientation to the school
- scholarships, post-secondary, vocational and career planning
- personal counselling and decision-making
- support in crises; referrals to community agencies

COUNSELLOR ASSIGNMENTS

All students are assigned to a counsellor who is responsible for both male and female students. However, students may go to any counsellor to discuss personal concerns. Students wishing to see a counsellor may go directly to the counsellor's office.

The Counselling Department offers many additional services to Centennial students:

- Help with program and course selection.
- Help solving academic difficulties and problems and, when necessary, arranging for tutorial assistance.
- Information and help with career and post-secondary planning (universities, regional colleges, vocational schools, apprenticeship programs) and registration.
- Discussion of personal problems and help in making personal decisions.
- Support in crisis situations and contact with community referral agencies (mental health, family planning, public health, social services).
- Information on other educational programs (summer school, on-line, distance education, continuing education, alternate programs).

A NOTE TO PARENTS FROM THE COUNSELLING DEPARTMENT

Although we make every effort to keep parents informed and will call when situations arise which require attention, we also encourage parents to contact counsellors whenever they have concerns about a student's progress. Please feel free to visit the school or telephone us at 604 936-7205. If you prefer to communicate via e-mail, please see the website or call the school to obtain a specific counsellor's e-mail

Youth Worker

Our Youth Worker is Liana Honeysett. Her office is located on Level 1, near the music rooms. The youth worker's role includes providing support to students who need to talk about emerging issues, along with many other roles.

Career Resource Centre

The Career Resource Centre, located adjacent to the counselling office, is our library of post-secondary educational information. We have current calendars for all B.C. post-secondary institutions and for most colleges and universities in the rest of Canada and the western U.S.

All students are encouraged to explore the wide variety of career exploration and job search materials which the Counselling Department maintains in the Career Resource Centre (Room 121).

The Career Resource Centre maintains a "Job Board" of available part-time employment and volunteer opportunities. Potential employers interested in hiring students should contact the Career Resource Facilitator in the Counselling Department by calling 604-936-7205.

- Current calendars
- Information about trades, technologies and apprenticeships
- PASBC - online application service to all universities in B.C. and many trade/technology and colleges as well
- Internet access to most universities/colleges, trade/technology and private training schools
- Career Employment
- Scholarship Opportunities
- Casual job referral service
- Resume writing and cover letters
- Career Cruising - Computer based career exploration
- Internet access to HRDC pages and links

Post-Secondary Preparation

SAT/PSAT INFORMATION

Students interested in attending college or university in the USA will need to write the Scholastic Aptitude Test (SAT I) and may also need the subject-based (SAT II) test. Registration information is available online.

Normally, students planning to write SAT tests also register to write the practice SAT (PSAT) in grade 11. The counselling department holds a sitting of the PSAT each October.

SCHOLARSHIPS & FINANCIAL AID

Information on scholarships, awards, and bursaries is available to all students through the Counselling Department and on Centennial 'Counselling' webpage. See the Scholarships and Financial Aid link under "Important Links" at the right side of the webpage as well as under "Information" located at the bottom of the webpage. Scholarship and Financial Aid Information sessions will be held in October and in the Spring. Students should check the daily bulletin and website for dates of these scholarship and financial aid sessions.

POST-SECONDARY INFORMATION

The Counselling Department sponsors a Post-Secondary Day in the fall. On this day, representatives from BC post-secondary institutes will be at Centennial School to provide information to grade 12 students and their parents. Representatives from Eastern Universities also make visits to Centennial throughout the month of November.

Counsellors will hold application workshops for colleges, BCIT and newer universities in October, and similar workshops for BC universities in November. Students should check the daily bulletin and website for dates and locations of these post-secondary sessions.

Current labour market information indicates that most jobs of the future will require education and training beyond grade 12. High school graduation from Centennial Secondary does not automatically guarantee entrance to a post secondary institution.

Students are responsible for determining the exact entrance requirements of the institution and program they wish to attend. Because these requirements change frequently, on-line calendars and institution web sites are the most up to date references available. Counsellors and the Career Resource Centre also have information and advice available, as do advisors in the institution(s) to which you are applying.

OPTIONS:

In British Columbia, students graduating from high school have a wide range of choices for post secondary training. These include:

- Technology and Trade Schools and Apprenticeship programs.
- Community Colleges
- Universities
- Specialized Universities/Institutes (e.g.: Emily Carr University and the Justice Institute of BC)
- Private Institutions

COLLEGES

Colleges offer **certificate programs** (1 year) and **diploma programs** (2 years). These programs are not usually transferable to a university but do often provide students with excellent job market skills. Some colleges have a few specialized **degree programs**. Most also offer **university transfer programs**.

Students pursuing a university degree may choose to enter university directly or they may take their first and/or second year of a university program at a college. If they obtain the required GPA and complete the appropriate, transferable courses, they may then transfer to second or third year university. There are both advantages and disadvantages to completing the first year or two at a local college.

Trades, technology, and vocational training in our area are concentrated at the British Columbia Institute of Technology (BCIT) and at Vancouver Community College (VCC). BCIT is now also degree granting in several programs.

Douglas College is the closest regional college. General admission to Douglas College requires high school graduation only, although some programs at Douglas do have specific course prerequisites or specify course and grade recommendations for priority registration or have limited, competitive entry. Some programs fill before the application deadlines, so apply early when possible.

UNIVERSITIES

There are various degree granting universities in BC. Among them are the traditional universities, such as:

Simon Fraser University - Burnaby, Surrey, and Downtown campuses

University of British Columbia (UBC) - *Vancouver & Okanagan campuses*

University of Victoria

University of Northern B.C.

There are also universities that offer a combination of career, trades, and technology programs as well as degree programs. These include:

Capilano University

Kwantlen Polytechnic University

Thompson Rivers University

University of the Fraser Valley

Vancouver Island University

Emily Carr University of Art & Design (ECUAD) specializes in undergraduate education in Art, Design, and Media.

UNIVERSITIES & COLLEGES IN OTHER PROVINCES & THE UNITED STATES

Students should consult specific post-secondary websites for admission details. American universities and colleges usually require a **SCHOLASTIC APTITUDE TEST (S.A.T.)** score. Students in grade 11 can arrange to write the practice S.A.T. (P.S.A.T.) at Centennial in October. Grade 12 students interested in attending a U.S. university visit the College Board website for more S.A.T. information. Online registration is the simplest and quickest way to register for the S.A.T. Go to <http://sat.collegeboard.org/home>. Country Code: 651
High school code: 821065.

EAL STUDENTS

Many institutions require EAL (ESL) students to take a TOEFL/IELTS or other such test prior to admission. Some institutions might alternately require a minimum number of years of education in Canada. Check to see what applies to your situation.

PERSONAL PROFILES AND EXTRA-CURRICULAR DEVELOPMENT

Some programs (such as Business), some universities (such as UBC), and most scholarships require a personal profile or essay. Writing these requires time, contemplation, and editing. Start composing them early, save working drafts, and return to improve them several times before completion.

Increasingly, schools and employers are looking for more than just grade averages to assess student ability. They are looking for other indicators of your broader capacity to use information, analyze and solve problems, draw conclusions, work well in a group, participate in discussion, lead activities, motivate yourself, and think creatively. Ideally, your preparation for this started much earlier – even as early as grade 9 or 10, when you began to explore areas of interest, develop your talents, and serve your community. Volunteer work, team sports, art classes, workshops, contests, certificates, festivals, exhibits, employment, refereeing, tutoring, clubs, performance, public speaking, and personal projects will all help you find your passions, improve your skills, broaden your horizons, and increase your odds when you fill out those applications. These activities will also enlarge your network and may lead to other opportunities or provide you with further support.

Get a box and continually add awards, particularly good projects and essays, art, or other evidence of your achievements. Keep a current list with all the dates and details of your activities. Add new ones as they occur. This will serve as a reference and memory aid when you must fill in applications.

HOW TO SELECT A POST SECONDARY INSTITUTION

Many sources exist to help you choose your next school. Consult with your counsellor, check out web sites (see the attached list to get started), refer to the calendars, viewbooks, and brochures in the Career Resource Centre and talk to the Career Resource Facilitator. Come to information sessions at Centennial and other high schools, attend information and ‘tryout’ days offered by local institutions, and find books in the library on university selection. MacLean’s magazine and the Globe and Mail newspaper both put out different annual rankings and comparisons of Canadian universities.

Remember that the academic program a school offers is only one part of the experience you will have. Where you live, where the school is located, the kind of student life the school offers, the class sizes, and the sports and clubs available will all contribute to what you learn and how much you take from the experience. Even good schools have some stronger and some weaker departments. Sometimes a school with a smaller overall reputation has certain particularly outstanding programs.

CO-OPERATIVE EDUCATION

Co-op programs allow students to alternate study semesters with semesters spent working in their field of concentration. Participating in a co-op program provides a combination of academic preparation along with paid work experience in a business, industry, or branch of government. Co-op degree holders have a higher success rate of finding employment upon graduation and it helps pay for your studies. For detailed information, contact the co-op coordinator at the institution of your choice during your first year of university or college. Checking to see if your program of choice offers a co-op option may also be part of your selection criteria as you decide where to apply to study.

INTERNATIONAL EXCHANGES

Most universities offer international educational exchange programs and/or international field studies. In many cases you pay local tuition fees while attending a school in another country. Contact the exchange office at the university or college of your choice.

HOW DO I APPLY?

Most institutions now require that you apply on-line. Some colleges still accept paper applications. Applications for Post Secondary institutions may begin as early as October or November of the year prior to your entry into a post-secondary institution. Check application deadlines carefully, as all schools are different. Appropriate application fees must accompany all applications. A Post Secondary Institutions (PSI) Selections Form must be completed on-line no later than April 30. It is prudent, however, to get it done earlier. Some institutions may request a student to self-report grades or may request an official paper transcript in addition. See your counsellor for an interim transcript.

POST-SECONDARY INSTITUTION INFORMATION

If you are proceeding to further education after graduation, you will need to check institution publications and calendars carefully. Admission requirements for institutions and programs are subject to constant revisions. More information is available through your counsellor, Career Resource Centre, the internet and the Registrars' offices at the institution of your choice. The following World Wide Web addresses have been provided to help you begin your research.

LINKS TO BC INSTITUTIONS

(This is a sample of some of the institutions and their websites within B.C.)

- Aboriginal Post Secondary at Nicola Valley www.nvit.ca
- British Columbia Institute of Technology www.bcit.ca
- Capilano University www.capilanou.ca
- Douglas College www.douglas.bc.ca
- Emily Carr University of Art and Design www.ecuad.ca
- Justice Institute of British Columbia www.jibc.ca
- Kwantlen University College www.kpu.ca
- Langara College www.langara.bc.ca
- Royal Roads University www.royalroads.ca
- Simon Fraser University www.sfu.ca
- Thompson Rivers University www.tru.ca
- Trinity Western University www.twu.ca
- University of the Fraser Valley www.ufv.ca
- University of British Columbia www.ubc.ca
- University of Northern British Columbia www.unbc.ca
- University of Victoria www.uvic.ca
- Vancouver Community College www.vcc.bc.ca
- Vancouver Island University www.viu.ca

OTHER USEFUL LINKS

- Aboriginal Youth and Training (Select English, then Education) www.aboriginalcanada.gc.ca
- Alberta Post Secondary Application www.applyalberta.ca
- Apprenticeship Information www.itabc.ca
- Association of Universities and Colleges of Canada www.aucc.ca
- B.C. Ministry of Education provincial exams information www.bced.gov.bc.ca/exams/
- B.C. Post Secondary Application System www.applyBC.ca
- B.C. Post Secondary Information www.educationplanner.ca
- B.C. Transfer Guide for Post Secondary Courses www.bctransferguide.ca
- Canadian Post Secondary Institutions, List & Information www.schoolfinder.com

- Career and Labour Market Information www.careerpathsonline.net
- Career and Occupation Exploration in B.C. www.workfutures.bc.ca
- Coquitlam On-line Course Information www.sd43.bc.ca/col
- Ontario University Application Site www.ouac.on.ca
- SAT Exam Information www.collegeboard.org/
- U.S. Colleges and Universities, List & Links www.utexas.edu/world/univ
- U.S. Colleges and Universities, Virtual Tours & Information www.campustours.com

Course Request Timeline

Current Grade 8's

Don't worry! This **Student Guide** probably seems long and complicated, but our job is to make choosing your Grade 9 program smooth and easy. We will come to your school, and guide you through the process. After Christmas break we will be visiting your school for some informative talks. You will meet our counselling team during these visits and they are the ones who take your course forms and enter them in, ensuring everything is as it should be.

For the rest of Grade 8, make sure you are showing excellent work habits all the way to the end of June. It's impossible to magically change into a great student in one summer. Start now. Work hard and don't (I repeat... DO NOT) engage in behaviours that cause drama. In Grade 9, the secret to success is a network of friends and family that help support your success in classes, a good attitude, and a focus on the goal, which is to keep as many doors open as possible to post-secondary (after high school) options.

A printout of your chosen courses will be handed to you in June, and/or emailed to your home email address.

Current Centennial Students

Course request forms will come out in February, and you have until the deadlines to hand it in. Once we receive the forms, we begin calling students into individual appointments with their counsellors to review their choices. That takes place throughout late March and April.

In early May, we will adjust our course offerings, by increasing or decreasing the number of sections of each class. Occasionally, your choice is not available, and we select from your list of alternates.

In June, you will be informed which courses you have on your timetable for each semester of the next grade. If you see problems with your timetable, you will have a chance to request a course change, but only during the very limited course change window.

Course Change Reasons

Students currently in Grade 9, 10, or 11... entering Grades 10, 11, or 12.... can change courses only if there is a compelling issue from the following list:

- Needed for a post-secondary program (please bring a printout from that program's site)
- Sudden change in plans for summer school or summer online learning.

Course Change Line-Up Times

A schedule for course changes will be communicated to all students. There will be an opportunity to change courses during the 3rd or 4th week of June, after school over two days. Grade 11's going into grade 12 have top priority to change courses.

Course Selection Process

How to choose

When choosing courses for **Grade 9**, there is a combination of 5 required courses and 3 electives. All of these courses are prerequisites for more advanced courses in the same subject areas in the later grades. We also have introductory courses in various electives at the Grade 10 and 11 level.

In **Grade 10, 11 and 12**, students select courses needed for graduation and post-secondary plans. From these requests, the school develops a master timetable and assigns students to their classes. We make every attempt to keep classes at a reasonable size and balanced throughout the school day.

Priorities

1. Courses required to graduate
2. Prerequisites for post-secondary institutions student is applying to
3. Student preference of subject area



Course Request Forms

Students are given a form to fill out as their way of indicating which courses they would like to take in the following year. The forms are delivered to Middle Schools for Grade 8's to use, and are handed out at school for our current students. This form is a very important document, and must be signed by a parent or guardian and returned by the deadline. Students in Grade 9-11 will meet with a counsellor to finalize their selections and discuss any complexities. You will be picking required courses, electives, and alternates (alternate electives).

Some Advice

Math Class: Refer to our Math Pathways page to make good decisions about which math class to take. Make informed choices, so you don't find yourself over your head when it might not even be required for graduation or future plans. If you struggled to pass a math class, there might be a less-intense pathway to graduation for you!

Alternates: Make sure that you choose alternates that you are genuinely willing to keep!

Day Length: Be careful when choosing more than 8 courses for Grade 10, 11 or 12. If you are adding an early-morning, late afternoon, or lunchtime class, the workload can increase. Consult with a counsellor to make sure it's a sustainable decision.

Online Courses: Online courses do not qualify as replacements for the 8 courses students take in our building. Students are welcome to take online courses, but we do not offer direct supervision of students for their assignments, work time, or test taking.

Number of Courses Needed (& Exceptions)

MINIMUM NUMBER OF CLASSES – GRADE 9

Grade 9's take 8 courses.

Band, Jazz Band, Choir, Journalism, Strength Training are all considered extra courses over the 8.

MINIMUM NUMBER OF CLASSES – GRADE 10-11-12

The policy is changing for the 2017/2018 school year. Students will take a minimum of 8 classes during the year. This year, more courses will count as part of at 8 than ever before. Basically, all but a few of our course offerings can count towards the 8 classes. The ones that don't count towards your 8 (and are called "9th" courses) are:

Course	Does it count towards your minimum 8?
Graduation Transitions	No
Leadership 11/12	
PE Leadership 12	
Musical Theatre	Count as 1 course, even if you take all of them.
Theatre Tech (various versions)	
Grade 10 Concert or Jazz Band	Yes
Choir/Vocal Jazz	Yes
Strength and Conditioning 10 (for Gr 10-12)	Yes
Journalism 11	Yes

Exception: Part-Time Students in the E.P.I.C. Program

An exception to the "full time only" rule at Centennial involves students who are accepted into the EPIC program, which is a way for student who receive the highest level of coaching in a particular sports or artistic discipline. For example, we have an athlete with 3 courses per semester at Centennial and the rest of day learning and training for their spot on the national Olympic team.

- *Elite Performers are students who receive 20+ hours of top-level coaching or training. The program is designed for athletes who compete at the national or provincial level in club sports.*
- *EPIC students may qualify to have a part-time schedule at Centennial, along with COL courses.*
- *Apply through the office by May 1, 2017, if you wish to have or renew EPIC status.*

Exception: Cross-Enrolled Students

Students who are enrolled full-time at another SD43 school can apply to come to Centennial for 1 or more blocks in one of our specialty programs such as Ace-It. Also, full-time Encompass students are not required to follow our rule of Minimum 8 Classes.

Awards

Students who are not enrolled full-time as described above are ineligible for school awards



Requirements

GRADE 9 COURSE REQUIREMENTS

Students in grade 9 will complete at least eight (8) courses. Courses will include:

- English or Humanities or ELL (English-Language-Learner)
- Social Studies or ELL
- Math or Numeracy
- Science
- Physical Education
- Elective Choices: 3 choices. If you intend to apply to universities after Grade 12, consider taking a language elective (French, Spanish, or Japanese).

GRADE 10-11-12 COURSE REQUIREMENTS

Once students enter Grade 10, they are officially under the “Grad Program”. The province is in the process of changing the grad program, and actually delayed it by one more year. Below are the basic requirements, and on the next page you can see the details depending on your grade level.

Grad requirements are clearly defined on the Ministry of Education website:

<http://www2.gov.bc.ca/gov/content/education-training/k-12/support/graduation>

In order to graduate with a Dogwood, every student on the Graduation Program is required to pass certain basic courses. The list below is an overview of what is required for graduation under the old program, which will still apply to students graduating in June 2017 and June 2018.

REQUIRED COURSES

- a Language Arts 10 (4 credits)
- a Language Arts 11 (4 credits)
- a Language Arts 12 (4 credits)
- a Mathematics 10 (4 credits)
- a Mathematics 11 (4 credits)
- Fine Art &/or Applied Skill 10, 11 or 12 (4 credits)
- Social Studies 10 (4 credits)
- a Social Studies 11 or 12 (4 credits)
- Science 10 (4 credits)
- a Science 11 or 12 (4 credits)
- Physical Education 10 (4 credits)
- Electives (28 credits minimum)
- Career Life 10 (4 credits) & Grad Transitions (4 credits) (to be replaced by Career Planning A/B & Capstone)

***Of the 80 credits for graduation, at least 16 must be at the grade 12 level, including a grade 12 language arts course. Others may be required or elective courses.**

Updates For 2018/2019

In 2018/2019 there will be changes to exams to align with the redesigned Kindergarten to Grade 12 curriculum, and in preparation for the new graduation requirements starting in 2017/2018.

This is what it means for students entering Grades 10-12 in the 2016/2017 school year:

Grade 10 students in 2018-2019 will:

- Take a Math 10, a Language Arts 10 and Science 10, with classroom assessments
- Take the Numeracy Assessment

Grade 11 students in 2018-2019 will:

- Have completed a Math 10, a Language Arts 10 and Science 10 or equivalent.
- Have taken the Numeracy Assessment back in Grade 10
- Meet Social Studies graduation requirements (any Socials 11 or 12 course)
- Write a provincial literacy assessment before graduation (likely in Grade 12)

Grade 12 students in 2018-2019 will:

- Finish all the current Graduation Program requirements
- Have completed a Math 10, a Language Arts 10, Science 10 and Social Studies 11 (or equivalent) and have written provincial exams. If you did not take the Grade 10 courses until the 2016-2017 year, you have no exams in those courses.
- Take Language Arts 12 (or equivalent) and write the associated **provincial exam**
- Written the new provincial numeracy exam but not the provincial literacy exam

SUMMARY:

Entering...	Last year 2017/2018	Upcoming Year 2018/2019	2019/2020	2020/2021
Grade 9 In 2018/2019	• Grade 8 year	• Grade 9 year	• Grade 10 year • Numeracy Assessment	• Grade 11 year
Grade 10 In 2018/2019	• Grade 9 year	• Grade 10 year • Numeracy Assessment	• Grade 11 year	• Grade 12 year • Literacy Assessment
Grade 11 In 2018/2019	• Grade 10 year • Numeracy Assessment	• Grade 11 year	• Grade 12 year • Literacy Assessment	• GRADUATED
Grade 12 In 2018/2019	• Grade 11 year • Numeracy Assessment	• Grade 12 year • English 12 or Communications 12 Provincial Exam	• GRADUATED	• GRADUATED

Advanced Placement (AP)

In Grade 11 or 12, you can take AP courses. We offer a number of these courses, as authorized by the College Board in the U.S. You can choose to take those courses if you meet the prerequisites, but some students apply to do accelerated math and sciences in Grade 9 as a way to prepare for the AP courses in grade 11 and 12.

Grade 9 Acceleration

GRADE 9 PRE - A.P.

Incoming grade 9 students interested in acceleration should consider the pre-AP program (see Science 9 Pre-AP in the course descriptions section of this calendar) or the accelerated math program (see Math 9/10 Accelerated in the course descriptions). Other students who wish to accelerate their program by taking courses in the second semester at the next grade level will need to obtain a written recommendation from the first semester teacher in the appropriate subject area, and then meet with a counsellor in late January. Acceleration requests will be granted only if there is room in classes after all students at the next grade level have been successfully programmed.

SCIENCE: This program allows academically strong grade 9 students to accelerate, thereby providing some additional preparation time for the Advanced Placement Science courses in grades 11 and 12. Grade 9 students in the pre-AP program work with a science teacher on Science 9 in semester one and Science 10 Honours in semester two. In grade 10, students will take one or more grade 11 level science courses followed by grade 12 level courses in grade 11. In their grade 12 year, students are eligible to choose from a variety of AP Seminar science courses (see AP courses below).

MATH: This program allows mathematically strong grade 9 students to participate in an accelerated program of study in mathematics. Qualifying applicants will be enrolled in Math 10 Foundations & Pre-Calculus (Honours) upon the successful completion and outcome on a challenge exam. These students will then be eligible to complete:

- Math 11 (Pre-Calculus OR Foundations) in grade 10
- Math 12 (Pre-Calculus OR Foundations) in grade 11
- Calculus 12 in semester one of grade 12, and the opportunity to write the Calculus AP exam in May/June
OR enroll in selected concurrent studies math courses through SFU or Douglas College during semester two. Please review course descriptions for more information.

Grade 11 or 12

In grade 12, students may be eligible to take courses such as Biology 12 AP, Chemistry 12 AP, Physics AP, Calculus 12 AP and Psychology 12 AP. AP courses can be used as part of the admission requirements to many post-secondary institutes – please check post-secondary calendars and websites for information and limitations. Successful completion of AP courses can lead to advanced credit or standing in first year university courses at selected post-secondary institutes. Students may also choose to participate in guided independent study, to prepare for AP exams in the subjects of their choice. Registration, information, and preview exam packages are available from the AP coordinator.

Leadership Class

Leadership 11/12

GRADE 11/12 ONLY

Leadership 11/12 is by application only. Students are not automatically admitted to the class without first qualifying and second completing the application process successfully. This class can be used as one of your 8 classes for Grade 11, but cannot be taken in the same year as a study block in Grade 12.

HOW TO QUALIFY

- Grade 11 or 12 student
- Be in good standing (no behaviour record, excellent attendance record)
- Be outgoing
- Be chosen by the selection committee

WHEN TO APPLY

Applications will be made available at the same time as the Course Request forms. Complete the application by the deadline on the form, and then you will be able to select it on your Course Request form as one of your courses.

Peer Tutoring Class

Peer Tutoring 11/12

Peer Tutoring 11/12 is by application or invitation only. Students are not automatically admitted to the class without first qualifying, and second completing the application process successfully. This class can be used as one of your regular classes.

WHAT IS INVOLVED

Read the Peer Tutoring course description for full details, but the fundamentals are that you will learn some basic tutoring (teaching) skills, record-keeping, and presentation skills. Also, you will directly assist students in their work, either in a classroom, in the LC, or in another location.

Students need to be open to the possibility that their first choice of teacher sponsor might not be the one they are paired with. Also, students may be assigned to the Learning Center (LC) when and if needed by the LC staff.

Students will be required to complete weekly assignments or journals, as part of their requirements for Peer Tutoring.

HOW TO QUALIFY

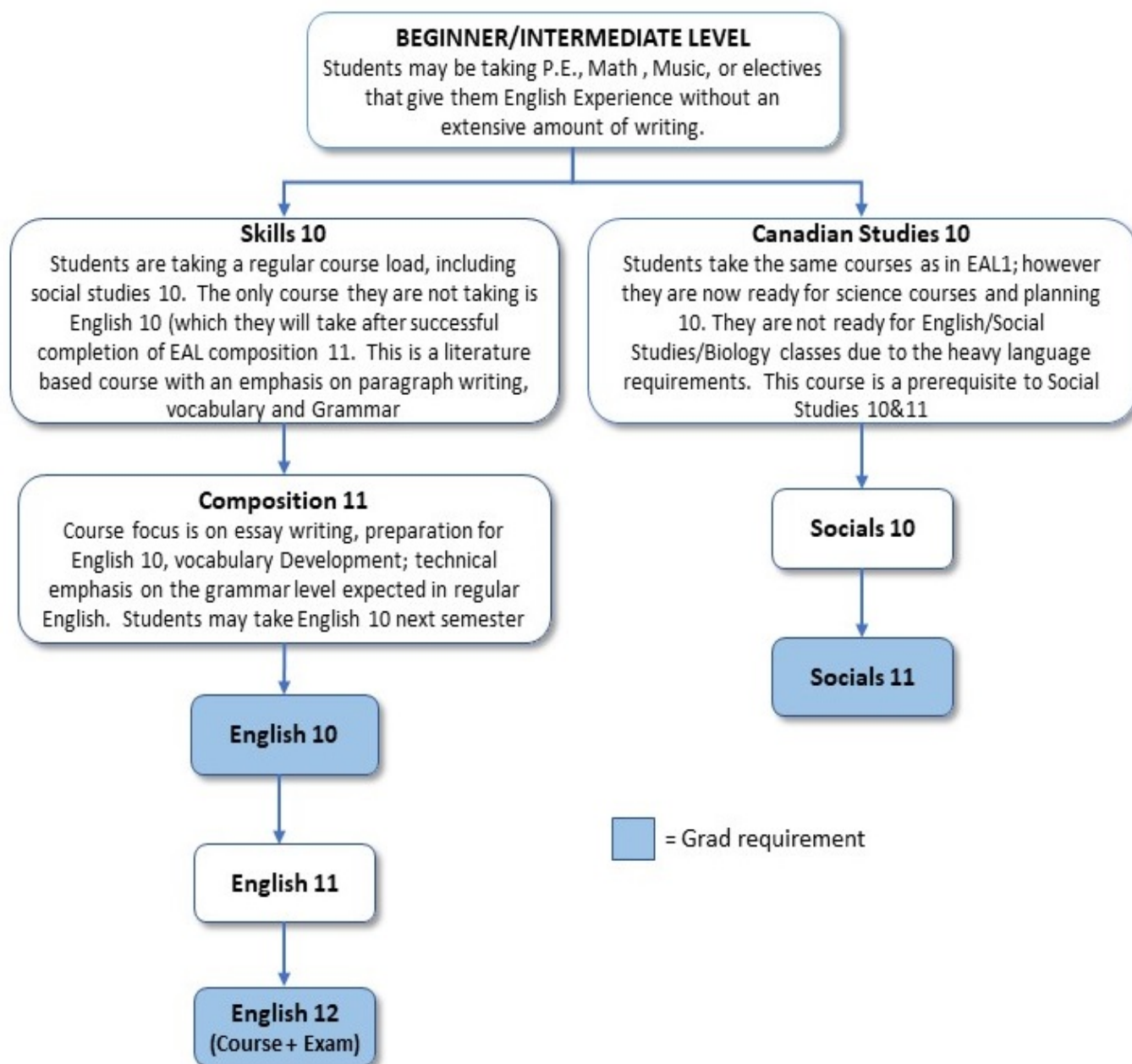
- Grade 11 or 12 student
- Be in good standing in the school (no behaviour record, excellent attendance record, honour roll)
- Be hard-working, and show excellence (A-standing) in the subject areas you would like to assist with

WHEN TO APPLY

Applications will be made available at the same time as the Course Request forms. Complete the application by the deadline on the form, and then you will be able to select it on your Course Request form as one of your courses.

English as an Additional Language

EAL (formerly ESL) assistance is provided for students new to Canada whose first language is not English, and to EAL students who need to continue to build their English language skills. The EAL program prepares students for regular classes. EAL instruction is available for as long as the student, teacher, and counsellor agree that it is required. For more information, look under the EAL section in this guide.



Youth Train in Trades Programs

Trades Training Program	Program Details				Minimum Requirements
	Grade	Cost	Time	Location	
Automotive Service Technician	gr 12 (16 seats)	≅ \$400	Sem 2 All day	Centennial	<ul style="list-style-type: none"> Completion of Auto 11 <u>and</u> Auto 12 (C+) an English Lang Arts 12 Workplace Math 11 (C+) or any other Math 11 “L” driver’s license and good computer skills
Automotive Collision Repairer	gr 12 (1-2 seats)	≅ \$800	Sem 1 + 2 Mon – Thurs (all day)	VCC (Broadway campus)	<ul style="list-style-type: none"> Workplace Math 11 (C+) or any other Math 11 signed up for: English Language Arts 12 “online” Recommended: at least one Auto course
Automotive Refinishing Prep. Tech.	gr 12 (1-2 seats)	≅ \$800	Sem 2 Mon – Thurs (all day)	VCC (Broadway campus)	<ul style="list-style-type: none"> an English Language Arts 12 Workplace Math 11 (C+) or any other Math 11 “L” driver’s license Recommended: at least one Auto course
Baker	gr 12 (1 - 2 seats)	≅ \$1,200	Sem 1	VCC (downtown campus)	<ul style="list-style-type: none"> English Language Arts 11 Food Safe Level 1 Transportation to VCC (Skytrain + 8 min walk)
Bricklayer	gr 11 & 12 (16 seats)	≅ \$275	Sem 1 All day	Thomas Haney Sec. (Maple Ridge) * note: location subject to change	<ul style="list-style-type: none"> English Language Arts 12 Workplace Math 11 (C+) or any other Math 11 Physical ability to do the job
Carpenter	gr 11 & 12 (16 seats)	≅ \$275	Sem 2 All day	Terry Fox (Feb – May) KPU (June)	<ul style="list-style-type: none"> Carpentry 11 <u>and</u> at least Workplace Math 11 (C+) Strongly recommended – Drafting 11 Own transportation to KPU (Cloverdale Campus)
Cook	gr 11 & 12 (10 seats at each site)	≅ \$350	Sem 2 All day	Three site options: Gleneagle, Riverside or Centennial	<ul style="list-style-type: none"> Food Safe Level 1 Cook Training 11 and/or 12 or Foods & Nut. 11 and/or 12 (ideally two or three of them)
Electrician	gr 11 & 12 (18 seats)	≅ \$250	Two intakes: Sem 1 or Sem 2	Dr. Charles Best	<ul style="list-style-type: none"> Workplace Math 11 (B) or any other Math 11 Physics 11 Recommended – a Tech Ed 10 or 11 course
Hairstylist	gr 11 & 12 (16 seats)	≅ \$1,200	Sem 2, plus following Fall Sem 1 All Day	Gleneagle	<ul style="list-style-type: none"> Full completion of grade 10

Metal Fabricator	gr 12 (2-3 seats)	≅ \$350	Sem 2 All day	BCIT (Burnaby Campus)	<ul style="list-style-type: none"> ▪ Full completion of grade 11 <u>and</u> English Lang Arts 12 ▪ Workplace Math 11 (C+) or any other Math 11
Heavy Duty Mechanic	gr 12 (1-3 seats)	≅ \$900	36 weeks... 5 different intakes	VCC (Annacis Island, Delta)	<ul style="list-style-type: none"> ▪ Full completion of grade 11 ▪ Workplace Math 11 (B) or any other Math 11 ▪ Auto 11 (B) - and ideally Auto 12 (B)
Millwright	gr 12 (1 - 2 seats)	≅ \$1,200	Sem 2 All day	BCIT (Burnaby) <u>or</u> KPU (Cloverdale)	<ul style="list-style-type: none"> ▪ Full completion of grade 11 <u>and</u> English Lang Arts 12 ▪ Workplace Math 11 (B) or any other Math 11
Motorcycle Mechanic	gr 12 (1 - 2 seats)	≅ \$500	Sem 2 All day	BCIT (Burnaby Campus)	<ul style="list-style-type: none"> ▪ Full completion of grade 11 <u>and</u> English Lang Arts 12 ▪ Recommended – Automotive 11
(commercial) Painter	gr 11 & 12 (3 seats)	≅ \$0	Late June to early Aug	Finishing Trades Ins. (Surrey)	<ul style="list-style-type: none"> ▪ Full completion of grade 11 <u>and</u> English Lang Arts 12 ▪ Transportation to FTI (Skytrain + 20 min walk)
Plumber	gr 12 (6 seats)	≅ \$100	Late June to early Aug	Piping Indus. Coll. (Annacis Island, Delta)	<ul style="list-style-type: none"> ▪ Workplace Math 11 (B) or any other Math 11 ▪ Work Experience 12 – with a “plumbing” placement ▪ Completing grade 12 in June
Exploring Perspectives	Exploring Perspectives is a survey course which provides an opportunity for students to engage in an investigation of various exceptionalities (disabilities) and current attitudes and societal/cultural perspectives that relate to the individuals who live with an array of disabilities. In addition to the classroom component, there is a 45-hour volunteer placement where students have an opportunity to apply classroom learning in a school and community-based setting.				

Coquitlam Open Learning Course Offerings



2018-2019 COL 10-12 Program Offerings

online.sd43.bc.ca 604.936.4285

1432 Brunette Avenue, Coquitlam

COL offers an extensive list of Secondary programming options, including:

Grade 10 Academic		Grade 11 Academic		Grade 12 Academic		Unique Electives	
English 10 – 2 Credits	Online	Biology 11	Online	Biology 12	Online	Accounting 11, 12	CLOC
• Composition		Business Computer App 11	CLOC	Calculus 12	CLOC	Data Management 12	CLOC
• Creative Writing		Chemistry 11	Online	Chemistry 12	Online	Family Studies 12	CLOC
• Literary Studies		Communications 11	CLOC	Communications 12	CLOC	Marketing 12	CLOC
• New Media		Earth Science 11	CLOC	Comparative Civilizations 12	CLOC	Planning 12 (Adult Grad only)	CLOC
• Spoken Language		English 11	Online	English 12	Online	Tourism 12	CLOC
English 10 – 4 Credits	Online	French 11	Online	French 12	Online	Work Experience 12	Online
(2 of the above choices)		Info. & Comm. Tech 11	CLOC	Geography 12	CLOC		
Math 10 Foundations & Pre-Calc.	Online	Intro Japanese 11	Online	History 12	CLOC	YELL – Entrepreneurship 12	Blended
Math 10 Apprenticeship	Online	Japanese 11	Online	Info. & Comm. Tech 12	CLOC	(Application process May '18)	
French 10	Online	Intro Mandarin 11	Online	Japanese 12	Online		
Career Life Education 10	Online	Mandarin 11	Online	Law 12	CLOC	Cheer Fitness 11	Online
Planification 10	Online	Intro Spanish 11	Online	Mandarin 12	Online	Cheer Leadership 12	Online
Physical Education 10	Online	Spanish 11	Online	Math 12 Foundations	CLOC		
Science 10	Online	Math 11 Apprenticeship	Online	Math 12 Pre-Calculus	Online		
Social Studies 10	Online	Math 11 Foundations	Online	Physics 12	CLOC		
		Math 11 Pre-Calculus	Online	Spanish 12	Online		
		Physics 11	CLOC	Writing 12	Online		
		Science and Tech 11	CLOC				
		Social Studies 11	Online				
		20 th Cent. World History 11	Online				
		- (Social Studies 11 credit)					
<p>Interested in Summer Learning? Grade 10-12 'Fast Track – Online Blended' Courses are available: Summer Learning Coquitlam.ca Talk to your counsellor to help with course planning.</p>						<p><i>Youth Work in Trades</i> Formerly Secondary School Apprenticeship. Earn hours towards trade certification while gaining up to 4 high school courses. Go to: 43Careers.com</p>	

Three types of learning environments:

- Online (Continuous Entry):** flexible pacing, communication is predominantly via online tools.
- Blended (Online blended):** specific start/end dates, semester or full year, regularly scheduled face-to-face classes used for seminars, group discussion, labs, or extra support.
- CLOC (Adult Learning Center):** continuous entry, includes both paper-based and online courses, learning support hours, only for students 17+ or with permission.

COL is pleased to offer a range of learning supports including:

- Support teacher in every SD43 secondary school
- Write tests and get support right in your home school
- Ongoing local drop-in support
- Live teacher-led webinar sessions
- Extra testing and online support in the evenings
- Language Lab support hours

Learn more at: **Online.sd43.bc.ca**

Turn to the page corresponding to the grade level you are entering. While you are at it, you can download and print the course request form for your grade for our website. We also distribute these at school.

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Grade 9 Course Planning Info

Did you know?

- ❖ Grade 9 students usually take 8 courses, but some students take a 9th or 10th course as well.
- ❖ Starting in Grade 10, your courses count for credits towards graduation. If you are involved in high-level sports or arts certifications (like ballet class), you might be eligible for course credits that count. If you take a Grade 10 course during Grade 9, it also counts towards graduation. Keep in mind that from Grade 10 to Grade 12, you will probably take 24 courses, and earn at least 96 credits, even though you need 80 credits to graduate.
- ❖ There's no school supply list for Grade 9. Instead, each teacher will let you know if you need something, but usually they say: a binder, section dividers and some filler paper, for starters.
- ❖ Our mascot is the Centaur – half person half horse. You'll see a "real" one at our spirit assemblies.

There's a lot to know about how things work at Centennial

- ❖ Visit the online PDF version of our student guide on the school website (published February 1, 2017)
- ❖ Install our free app into your smartphone (if you have one). www.honeygarlic.ca/download.php

Choosing Your Grade 9 Courses

- ❖ Grade 9 students take English, Social Studies, Science, Math, and PE, plus a selection of three elective courses. If a Grade 9 student takes an off-timetable course, it is on top of the 8 main courses.
- ❖ You need to choose elective courses that contain "Applied Skills" and "Fine Arts". Fortunately, most of our courses at Centennial have both of those components built in, so you are free to choose from the whole list of courses.
- ❖ Students who are following an English Language Learning (ELL) or Learning Assistance Centre (LAC) in Middle School may need to take certain courses in their list of eight. These choices are made by the counsellors at both Middle and Centennial Schools, in consultation with parents.
- ❖ Before you pick your electives, visit each elective classroom on Walkabout Day (January 27th) to see what you will be most interested in. Pick more than three electives in case your top three choices are full and we have to go with your alternate selections.
- ❖ The Grade 9 Program of Studies consists of a combination of required and elective courses (eight courses in total). All students must take English, Mathematics, Social Studies, Science, and Physical Education. In addition, students must choose three elective courses. When choosing courses, students should start considering longer term educational goals with respect to high school graduation, post-secondary institution requirements, and the world of work. Grade 9's should choose one Fine Arts and one Applied Skill elective, if possible.
- ❖ See the course request form for the list of Grade 9 available courses, and read the descriptions too.

Off-Timetable Classes (your 9th, 10th, etc. if you choose)

Most Grade 9 students have 8 classes (4 in each semester), along with a lunch block. If you choose to take an extra class such as Band, Choir, Jazz Band or Strength and Training, you might have a class during the lunch block or before school (7:15 start time). By the time you pick your courses, you might not know for sure when these 'off-timetable' courses are scheduled.

- Junior grade 9/10 concert band
- Strength & training 9/10
- Concert choir grades 9-12
- Junior grade 9/10 jazz band
- Vocal jazz ensemble grades 9-12
- Musical theatre (grades 10+ usually)

Grade 10, 11, and 12 Course Planning Info

Planning for Grade 10 to 12 starts with understanding Graduation. There are slight differences in the system depending on which grade you are in during the 2018/2019 school year. See below for a comparison of how your credits add up under each system. The “4”’s and “0”’s are the numbers of credits for courses.

Entering Grade 10 Grad requirements June 2021	Entering Grade 11 Grad requirements June 2020	Entering Grade 12, Grad requirements June 2019
English 10 * 4	English 10 * 4	English 10 4
English 11 * 4	English 11 * 4	English 11 4
English 12 4	English 12 4	English 12 4
+ Literacy Assessment Test 0	+ Literacy Assessment Test 0	+ English 12 Prov Exam
Social Studies 10 4	Social Studies 10 4	Social Studies 10 4
Any Socials 11 or 12 course 4	Any Socials 11 or 12 course 4	Socials 11 or BC FN 12 4
Any Math 10 4	Any Math 10 4	Science 10
Any Math 11 4	Any Math 11 4	One of... 4
+ Numeracy Assessment Test 0	+ Numeracy Assessment Test 0	Bio 11, Chem 11, Phys 11, Science/Tech 11, or Earth Sci 11
Science 10 4	Science 10 4	An approved Math 10 4
One of... 4	One of... 4	+ Numeracy Assessment Test 2018
Bio 11, Chem 11, Phys 11, Science/Tech 11, or Earth Sci 11	Bio 11, Chem 11, Phys 11, Science/Tech 11, or Earth Sci 11	An approved Math 11 4
PE 10 4	PE 10 4	PE 10 4
Planning 10 4	Planning 10 4	Planning 10 4
Grad Transitions (GTP) 4	Grad Transitions (GTP) 4	Grad Transitions (GTP) 4
One Fine Arts or	One Fine Arts or	One Fine Arts or
Applied Skills 10/11/12 4	Applied Skills 10/11/12 4	Applied Skills 10/11/12 4
Seven More Elective Courses 28	Seven More Elective Courses 28	Seven Elective Courses 28
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80 credits	80 credits	80 credits
*En10 may be replaced by component courses, to be determined by the school.	*En10 may be replaced by component courses, to be determined by the school.	

- A minimum of 16 credits must be at the grade 12 level. This includes the 4 credits for English or Communications 12, but does not include the 4 credits for the Graduation Transition Program.
- Students are required to complete 4 credits of either Fine Arts or Applied Skills, or 2 credits of each, in grade 10, 11 or 12. In selecting a course to meet this requirement, students need to carefully review the chart on p.12.
- All students in grades 9 through 12 will be required to participate in, document and verify 150 minutes per week of physical activity in order to meet the Graduation Transition Program requirements. These requirements can be met both during school hours and in the community.

Required Courses

See the previous page for your required courses for Grades 10, 11, and 12. As you go from Grade 10 to 11, and then 12, the number of courses you can choose increases. You can specialize your preparation for post-secondary, and be ready to apply to all kinds of different opportunities, as long as you plan ahead.

In addition to required courses and a minimum number of credits, you also need to make sure you are taking at least the minimum number of “Fine Arts” and “Applied Skills” credits during your Grade 10/11/12 Grad Program.

Electives: Fine Arts and Applied Skills Requirements

Centennial students in the **Graduation Program** can use the chart below to select courses to meet their Fine Arts and Applied Skills requirement. Students need to complete a 4 credit Fine Arts **or** Applied Skills course **or** a combined Applied Skills/Fine Arts course at the grade 10, 11 or 12 level.

Fine Arts 10

- Drama 10
- Music 10: Concert Band
- Music 10: Concert Choir

Fine Arts 11

- Art Foundations 11
- Digital Film Making 11 (Film & TV 11)
- Music 11: Concert Band
- Music 11: Concert Choir
- Music Composition & Technology 11
- Studio Art 11: Ceramics & Sculpture
- Studio Art 11: Drawing & Painting
- Theatre Performance 11: Acting
- Theatre Production 11

Combined Fine Arts/Applied Skills

- Fashion Merchandising 11
- Journalism 11
- Musical Theatre 11
- Textile Arts & Crafts 11
- Yearbook 11

Applied Skills 11 and 12

- Accounting 11
- Auto Maintenance 11
- Auto Technology 11
- Beginner Guitar 10
- Carpentry & Joinery 11 or 12
- Cook Training 11A
- Drafting & Design 11-Engineering and Architecture
- Design 11-Animation and Multimedia
- Economics 12
- Electronics 11
- Entrepreneurship 12
- Family Studies 10/11/12
- Food Studies 11

- Guitar 11 or 12
- Hockey Academy - Hockey Skills 10 or 11
- ICT 11: Applied Digital Communication
- ICT 11: Computer Programming
- Keyboarding 11
- Marketing 11
- Metal Fabrication & Machining 11
- Metal Fabrication & Machining 12: Welding
- Metal Fabrication & Machining 12: Advanced Fabrication
- Metal Fabrication & Machining 12: Metal Art/Jewellery
- Music Composition and Technology 11 or 12
- Peer Tutoring 11 or 12
- Technology 11A
- Technology 12A
- Textile Studies 11
- Work Experience 12

External Course Credits and Course Challenges

Students and parents should be aware that students may earn External Course graduation credits in grade 10, 11 or 12 for documented proficiency in advanced academics, languages, music, dance, athletics, community youth development programs, and industrial and occupational courses.

The Ministry and the School District also have a program in place that allows students who have exceptional ability in languages to challenge courses by writing a formal challenge exam. More information about external course credit possibilities and challenge procedures are available from the Counselling Department.

Info for ELL students

Students who are studying **English as an Additional Language** may be required to take some EAL courses in place of regular English or Social Studies courses.

Info for LC (Learning Center) students

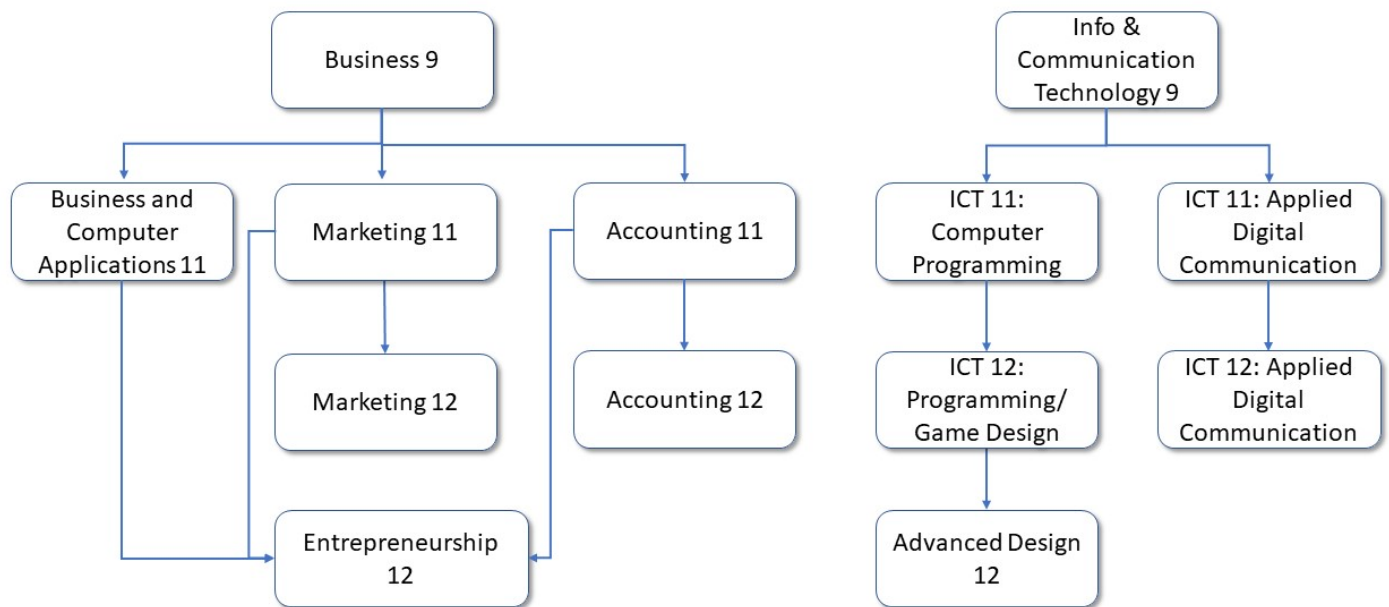
Students who require academic assistance may be scheduled for blocks of **learning assistance (LC)** in place of some of their electives.

COURSE DESCRIPTIONS

BY DEPARTMENT

- Business Ed & Info Tech
- English & ELL
- Home Economics & Cafeteria
- Languages
- Math
- Performing Arts
- P.E.
- Science
- Social Studies
- Technology Education
- Miscellaneous

BUSINESS ED & INFO TECH COURSES



Business Education 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This brand new introductory course includes many of the basic concepts needed to understand how the small business world works. Preview concepts that lead to Marketing, Accounting, Entrepreneurship, and Business Computer Applications. Project work includes designing a small business concept and virtually marketing it. A great start for those who might one day wish to pursue a post-secondary career in the Faculty of Commerce at one of our local institutions.

Foundation: None

Information & Communications Technology 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This “hands-on” course provides an opportunity to develop digital communication skills in data processing, graphic design, photo editing, presentation software, 2D digital animation, and coding. This course will help prepare students for a career in the digital world and provide them with new found skills which they can use to enhance projects for coursework in other curricular areas. Assignments will include working with Microsoft Office Tools; graphics editing and presentation with Photoshop, Illustrator, and Adobe Animate; coding and website design with HTML, CSS, and scripting languages.

Foundation: None

Accounting 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This is course is an excellent foundation for students who intend to get jobs in the business world, become self-employed, or take post-secondary business courses. As an introduction to bookkeeping procedures and accounting concepts, this course allows students to be aware of and capable of completing the basic accounting cycle and financial statements for a small business.

Foundation: None

Accounting 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course provides a general review of introductory accounting practices and then proceeds to work with more complex concepts and principles. Excel spreadsheets and Simply Accounting software will be used extensively throughout the course. This course provides students with additional skills for employment and gives them a strong head start for future business studies at college or university.

Foundation: Accounting 11.

Economics 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course is an introduction to the fundamentals of economic theory. Students will investigate such topics as economic systems, the structure of business, employment and inflation, money, stabilizing the economy, and international trade. It is of special interest to those who may do further study in law, business management, political science, economics or commerce, or those entering directly into the business world. Students may take this course in their grade 11 year.

Foundation: Social Studies 11.

Entrepreneurship 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Do you plan to run your own business? Entrepreneurship 12 provides a practical, “hands-on” opportunity to develop the entrepreneurial spirit required for starting and operating a business. During the semester, students will identify and evaluate business opportunities, assess business ideas, and develop and implement a business plan for a new venture. This course provides students with timely experiences needed for the business world.

Foundation: Any grade 11 business course.

ICT 11: Applied Digital CommunicationGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This is a ‘hands-on’ course introducing students to industry-standard computer applications. Have fun using Adobe Photoshop and Illustrator; create web pages using HTML and CSS in Dreamweaver; polish up your Internet research skills and present your results in PowerPoint; create Excel charts and Access relational databases; and make your own animated movies in Adobe Animate. This course is a ‘must’ for improving personal technology skills, meeting workplace requirements, and reaching a level of skill for optimal performance at college or university.

Foundation: Info & Communications Technology 9

ICT 12: Applied Digital CommunicationGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course extends the skills learned in ICT 11. Students will be challenged to develop high levels of skill in the areas of media development, information processing, and digital communications. 'Hands-on' project work will include advanced photo-editing techniques, relational database design, advanced print media design, and animated web page creation. Software used will include Adobe Creative Cloud Suite (Photoshop, InDesign, Illustrator, Animate, Dreamweaver), and Microsoft Office Tools.

Foundation: ICT 11: Applied Digital Communications or ICT 11: Computer Programming

ICT 11: Computer ProgrammingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Learn to create your own software, applications, and games. Based in the .Net programming environment students will learn to design programming algorithms, utilize computational thinking to solve programming problems, and code with a high level programming language to create real world computer programs. This course is designed to prepare students for study in university level computer science or software engineering.

Foundation: Math 10 recommended.

ICT 12: Programming - Game Design (AS)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Do you have a great idea for a video game? Try Computer Programming 12: Game Design. This advanced course is designed to develop programming skills through the exciting process of video game design. Vancouver offers exciting career opportunities in this area and this course can give students the head start needed for post-secondary education. Modern game design involves a high level of programming and animation skills, thus some background in both of these areas is beneficial for students wanting to attempt any game programming. The course will consist primarily of a large scale project using Python and PyGame to create a working video game.

Foundation: ICT 11: Computer Programming; and one of either ICT 11 Applied Digital Communications or Design 11: Animation & Multimedia.

Business Computer Applications 11

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Based on the old course Keyboarding 11, this course will help students develop keyboarding proficiency both as a personal life skill and as a foundation for career development. Students will learn to touch key to industry acceptable standards as well as create personal, school, and business documents using word processing software. This course is designed for the beginner as well as for those who wish to increase their speed and accuracy and learn more advanced word processing skills. Learn how to create reports, letters, tables, and other useful documents; and some advanced word processing and desktop publishing skills by the end of the course.

Foundation: None

Advanced Design 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

In this career-focused course, students have an opportunity to be involved in self-directed studies focused on topics of individual interest that relate to a variety of career sectors such as engineering, architecture, interior design, landscape architecture, urban planning, automotive design, computer graphics, fashion design, 2D & 3D animation, 3D game design, and multimedia production. Students will utilize advanced skills, knowledge, and features of previously used- as well as supplementary- software on applicable projects.

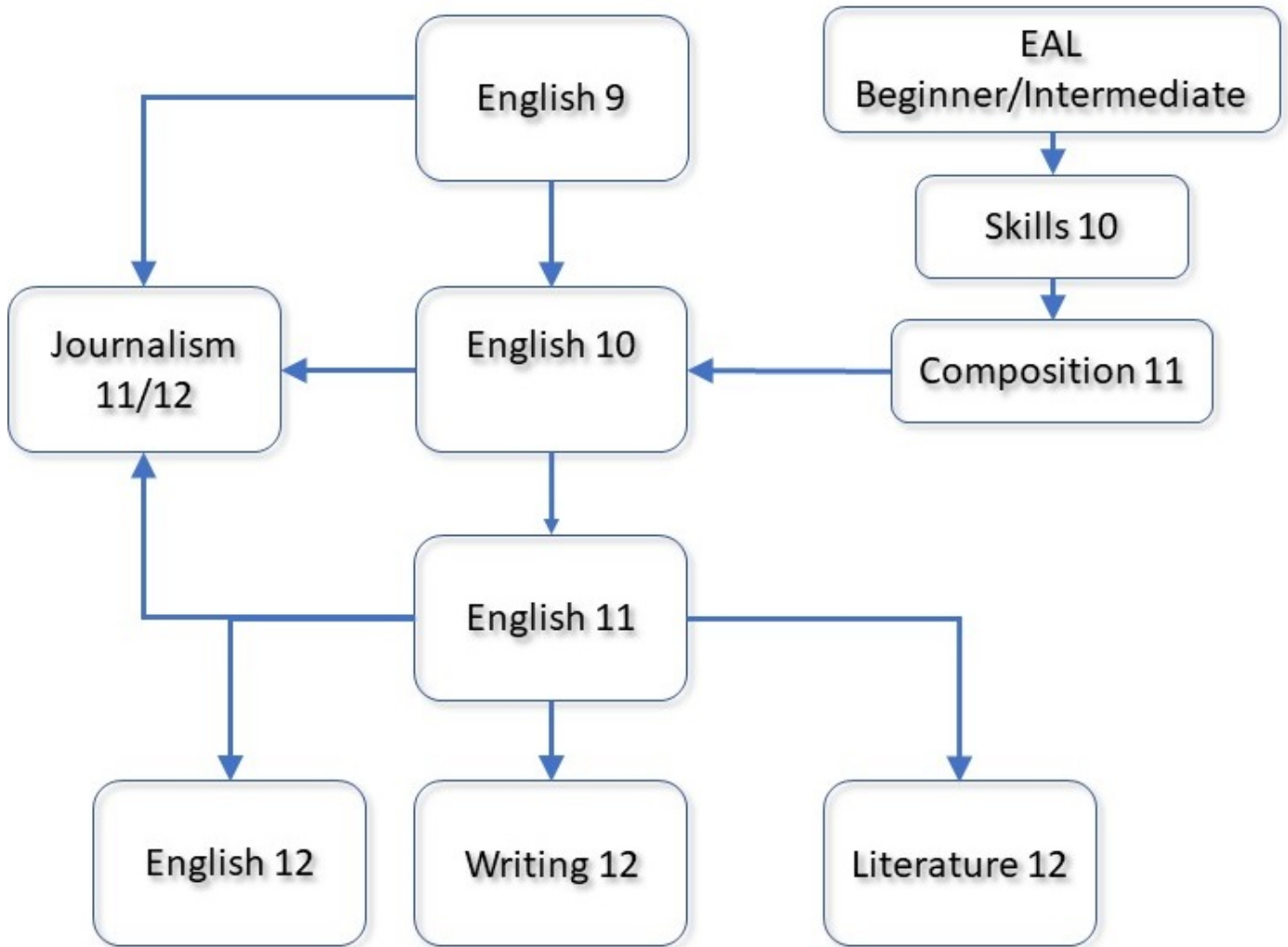
Foundation: Drafting & Design 12: Engineering & Architecture, Design 12: Animation & Multimedia, and/or ICT 12: Computer Programming – Game Design

Marketing 11

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Have you ever wondered why some products in the marketplace are so popular while others are complete flops? In Marketing 11, students will develop an understanding of marketing strategies that are used to successfully bring goods and services to consumers. Specifically, students will learn about consumer behaviour, the business environment, marketing research, retailing, advertising and promotion, pricing, and distribution. Students will prepare a hypothetical marketing/ business plan for a business of their choice. This is an excellent course for students interested in being involved in business but unsure of where to start.

ENGLISH and ELL COURSES (*ELL = English Language Learning*)



English 9

Grade 9 ☒ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

English 9 students pick up where middle school left off, as they develop skills in six areas, which are further grouped in two areas of competence: 1. comprehend and connect (reading, listening, and viewing skills), and 2. create and communicate (writing, speaking, representing skills). This course introduces students to the formal study of various literary genres: poetry, short stories, the novel, and drama. Students will develop skills and strategies that enable them to anticipate and confirm meaning while reading and listening. They will also study and apply the conventions of language to writing—with particular emphasis on coherent paragraph development.

English 10

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

English 10 offers students the chance to continue skill development in six areas, which are grouped together in two curricular competencies: 1. comprehend and connect (reading, listening, viewing), and 2. create and communicate (writing, speaking, representing). English 10 students work with diverse materials that are more challenging than the ones in the previous year and strive to create and communicate in ways that show increasingly sophisticated understanding of the language. They do so through Focused Literary Studies (examining the traditional genres of fiction, drama, poetry, and non-fiction); however, students are provided with a combination of four different options with which they can demonstrate their understanding. They are Composition, Creative Writing, New Media, and Spoken Language. Student choice is important in English 10, as are the First Peoples Principles of Learning, which are based on the concepts of community, shared learning, and trust; therefore, both choice and the principles of learning are embedded in English 10.

Foundation: English 9

English 11

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course places emphasis on appreciation of literature and development of language skills. The course deals with a variety of topical themes including some drawn from Canadian literature. Selections from newspapers and magazines, film, video, and supplementary literary works are used to enrich the core curriculum and stimulate intellectual and creative growth. There will be a particular emphasis on improving writing skills, which may include an individualized language skill program based on student needs.

Foundation: English 10

English 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course is designed to provide each student with the opportunity to develop critical analysis of a variety of forms of literature and communication, including short stories, poetry, essays, novels, drama, and films. Students are expected to become competent communicators and judges of form and content in these literary areas.

Foundation: English 11

Journalism 11

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course, offered on alternate days over both semesters, introduces students to the craft of writing for the newspaper. Students learn fundamental news reporting skills, features, sports and opinion writing, how to conduct a poll and news photography. They also learn to use imagination and initiative in gathering news and reporting it in a professional manner while adhering to the standards of the Canadian Press. Students will be involved in writing and reporting for The Catalyst. The course also includes a unit on writing for broadcast and new media. This course provides a basic background for a journalism career and a better understanding of mass media techniques.

Foundation: None

Journalism 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This is an advanced course in newspaper journalism. Students carry out the major responsibilities for regular production of the school newspaper, The Catalyst. Students are responsible for overseeing key sections of the paper including news, sports, opinion, and feature and focus sections. Students will learn advanced layout and production skills including the use of computer graphics and digital photography. These students will have the opportunity to mentor students in the introductory journalism class as they work cooperatively on the production of The Catalyst.

Foundation: Journalism 11**Literature 12**Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

Throughout our lives we constantly use stories to develop answers to the questions that shape how we understand ourselves, others, and the world around us. The goal of English Literature 12 is to enhance students' literacy through the study of a body of work that represents the literary heritage of English-speaking peoples. English Literature 12 offers senior students opportunities to examine and appreciate this rich heritage. The textbook *Adventures in English Literature* is a guide for students as they navigate through great works of literature from Old English days (around 600 AD) into the 20th century.

Foundation: English 11**Writing 12**Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

Stories shape how we see ourselves and the world around us. Writing 12 gives students the opportunity to consider stories from the perspective of the creator and to try their hand at creation. Students explore the structure, strengths and weaknesses of various genres: poetry, short story, drama, screenplay, and internet fiction. Special attention is given to how various media shape the nature and values of both the stories told and the society in which they are told. Those selecting this course should already have a good command of basic writing skills and be ready to develop advanced writing techniques.

Foundation: English 11**EAL Beginner/Intermediate (non-credit)**Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is designed for students who are beginning learners of English or are experiencing difficulty in the areas of listening, speaking, reading, and writing. It is designed for level 1 & 2 EAL learners. Students attend for 75 minutes each day, for one semester.

Foundation: None**EAL Canadian Studies (credit)**Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course emphasizes reading and writing skills, as well as vocabulary development and oral language. Before commencing this course, students should be able to write simple sentences, know basic verb tenses, and be successful with guided paragraph writing. The goal is to equip EAL students with the skills, content knowledge, and language necessary to achieve good results in the regular Social Studies program. Emphasis is on Canadian geography, history, government, and current and cultural events. It is designed for level 3 EAL learners. Students attend for 75 minutes each day, for one semester.

Foundation: Completion of EAL Intermediate or equivalent.

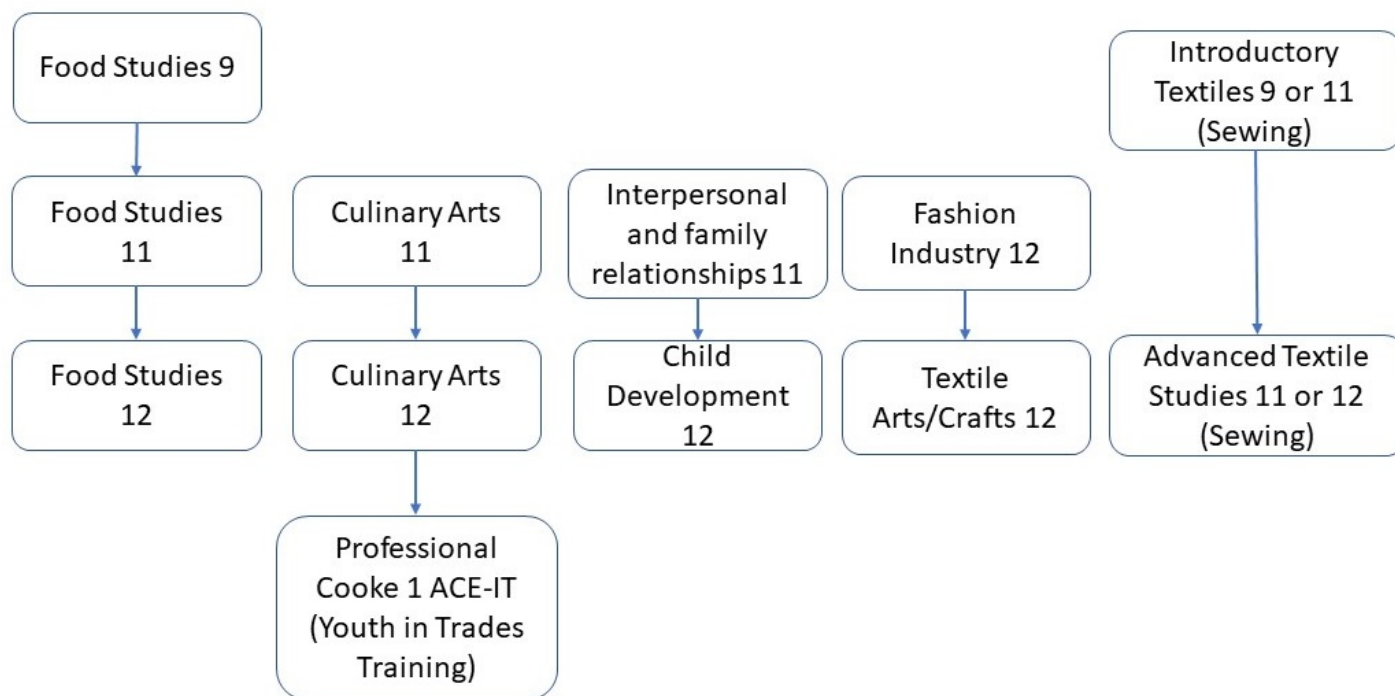
EAL Composition 11 (credit)

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is intended to prepare the advanced EAL student to enter the regular English program. Students in this course should be able to develop ideas in a paragraph, as well as write compound and complex sentences. Skills in reading proficiency, inference and responding to various forms of literature will be stressed. Students will be taught to write narrative, expository, persuasive, and descriptive paragraphs and essays. Literature studied will include short stories, novels, poetry, articles and essays. The course is designed for level 4 EAL learners. Students attend for 75 minutes each day, for one semester.

Foundation: Completion of EAL Skills 10 or equivalent.

HOME ECONOMICS COURSES



Food Studies 9/10/11 (Beginner)

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

LEARN THE BASICS! In this course you will learn to cook for yourself and your family. Food Studies 9/10 focuses on building confidence and creativity, basic food preparation skills and safe food practices. Main units will include: baking, breakfast, lunch and dinner. You will leave this class able to cook foods from all four food groups. Come prepared to tempt your taste buds with your creations!

Foundation: None

*** First-time Food Studies students can take Foods 9 or 10, and second-time students can take Foods 11 or 12.

Food Studies 11/12 (Intermediate)

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

FOOD SURVIVAL 101. Take this course to learn the skills you need to create easy and affordable meals – not just for now, but for when you are living on your own. Recipes will focus on practical meals and desserts and putting a twist on quick and easy foods to make them more nutritious and tasty. You will practice your new skills not only in the Foods lab, but also cooking at home.

Foundation: Successfully completed Foods 9/10

Food Studies 12 (Advanced)

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

WHAT INTERESTS YOU ABOUT FOOD? This course will be built around student interest, such as: baking, international foods, sports nutrition, farm to table, food trucks, etc. There will be many opportunities to create more complex foods and expand your taste buds.

Foundation: Students encouraged to have successfully completed Foods 10, Foods 11 courses before taking this course.

Family Studies 11 (Interpersonal and Family Relationships 11)

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

IT'S ALL ABOUT YOU & US! Family Studies 11 offers you an opportunity to understand yourself and others better. This course explores personal growth, self-concept, relationships, sexuality, lifestyle choices, and communication. We will be discussing many sensitive topics, ones that you may not have the opportunity to discuss with other adults. WE work hard on forming a safe community within our classroom so students feel comfortable asking those difficult questions. Participation in class discussions, reflective journal writing, Community Give Back projects and guest speakers are key to helping you become a happier, healthier and successful individual.

Foundation: Family Studies 10 or Child Development and Caregiving 12

Family Studies 12 (Child Development and Caregiving)

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

BABIES, BOTTLES, DIAPERS, PINS, THIS IS WHERE THE FUN BEGINS! Everything you wanted to know about where babies come from! Child Development and Caregiving takes an in-depth look at parenthood, and the stages of development from conception to 12 years of age. This course provides opportunity for hands - on projects and interactions with young children, with the possibility of volunteer hours. Students will also take care of the "Real Care Baby" (parenting simulation with computerized baby) in which they experience parenthood first hand. Other caregiving roles will also be explored.

Foundation Course: Family Studies 11

Fashion Industry 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

DIVE INTO THE WORLD OF FASHION! Learn about the clothing industry – from design to production, retailing and marketing. Study fashion designers from around the world and uncover their secrets to success. Topics include the history and psychology of fashion, an introduction to illustration, careers, and the fashion industry. We will learn how to stay ahead of the trends, meet with real fashion designers, design our own lines (both fashion and costume), and chat with guest speakers and visit businesses in Vancouver who are leading the way in fashion. This course would be valuable for students seeking employment in the fashion industry, those applying to post-secondary fashion programs, as well as those who have a general interest in fashion. No sewing or drawing skills required, just an open mind.

Foundation: None

Textile Arts & Crafts 9Grade 9 ☒ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

TAC 9 is a hands-on course where you can learn to make decorative items for yourself or to give as gifts. Students will learn about many crafting techniques and supplies. Projects include hand – sewing / embroidery, polymer clay, beading, scrapbooking, soap making, and holiday projects and decorations. Evaluation is based on completed project work, as well as project management.

Foundation: None

Textile Arts & Crafts 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

If you enjoy crafting and making gifts, TAC 11 is the class for you. Seasonal celebrations like Halloween, Christmas, Valentine's Day, Easter and Mother's Day provide inspiration for crafting. Projects may include hand-sewing, appliqué, decoupage, loom knitting hats and scarves, candle making, latch-hook rug making and seasonal decorations. Evaluation is based on completed project work as well as project management.

Foundation: None

Textile Arts & Crafts 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

TAC 12 builds on the knowledge, skills, and techniques learned in TAC 9 and 11. Students will complete more advanced and more complex projects. New fibre crafts such as needle-punch, felting and quilting will be explored. Students can demonstrate their creativity by work independently on projects of their own choosing. Evaluation is based on completed project work and project management. Some projects may require machine sewing, but no experience is necessary.

Foundation: TAC 11

Textiles 9/10 (Sewing)Grade 9 ☒ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

Learn to Sew! Textiles 9/10 is designed to help you learn the basics, the practical sewing skills needed to create clothing that you will be proud to wear. In this course you will make 3 garments (a shirt/hoodies, pant/skirt and a choice project) along with several smaller projects (accessories, home décor) based on time and student interest. We will learn how to choose fabric, how to work with a commercial patterns and make simple alterations. We will explore the process of upcycling and consider the environmental and ethical impacts of our clothing choices. This is a perfect course for beginners, no experience needed.

Foundation: None

*** First-time Textiles students can take Textiles 9 or 11, and second-time students can take Textiles 11 or 12.

Textile Studies 11/12 (Sewing)Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Textiles 11/12 is designed to build on the skills taught in Textiles 9/10. Students will continue to develop their skills by working with more challenging fabrics, learning to modify patterns to fit their body type and working with a serger. We will explore ways to repurpose textiles items, how fashion is marketed, and the ethical issues behind producing textile items. Three to four clothing items will be made, based on student experience and skill level. Beginners welcome.

Foundation: Students encourage to have taken Textiles 9 or Textiles 10

Culinary Arts 11

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

In Culinary Arts 11, students will develop the basic skills required to prepare meals from scratch. Students will be given the opportunity to work in a variety of different culinary stations in an industrial kitchen, under the direction of a Red Seal Teaching Chef. This course offers skill training for operating industrial food equipment and provides students with general knowledge of food safety and work safe procedures in a kitchen workplace. Customer service and team building skills are the focus as students prepare and serve a wide range of daily menu items to a population of over 1200 students. Students will also be given the opportunity to complete the Food Safe Level I training program during this course.

Course Enrichment cost: (recommended but not mandatory)

Food Safe Level 1 \$45.00,

Chef jacket & apron \$45.00

Foundation: Foods & Nutrition 9/10

Culinary Arts 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Culinary Arts 12 allows students to further explore learning opportunities in the culinary kitchen. Students will develop leadership and communication skills by mentoring Culinary Arts 11 students in the kitchen. Students will also develop kitchen management skills, and contribute ideas to recipe and menu development. Students will have opportunities to compete in culinary competitions, develop promotional advertising for menus, conduct food science experiments and contribute original ideas to help manage and improve the school cafeteria business. Students will be given another opportunity to take Food Safe Level 1, if they have not completed this in Culinary Arts 11.

Course Enrichment cost: (recommended but not mandatory)

Food Safe Level 1 \$45.00

Chef jacket & apron \$45.00

Foundation: Culinary Arts 11, Foods & Nutrition 11, Foods & Nutrition 12, Food Safe Level 1

Professional Cook 1 (PC 1) ACE-IT (Accelerated Credit Enrolment in Industry Training)

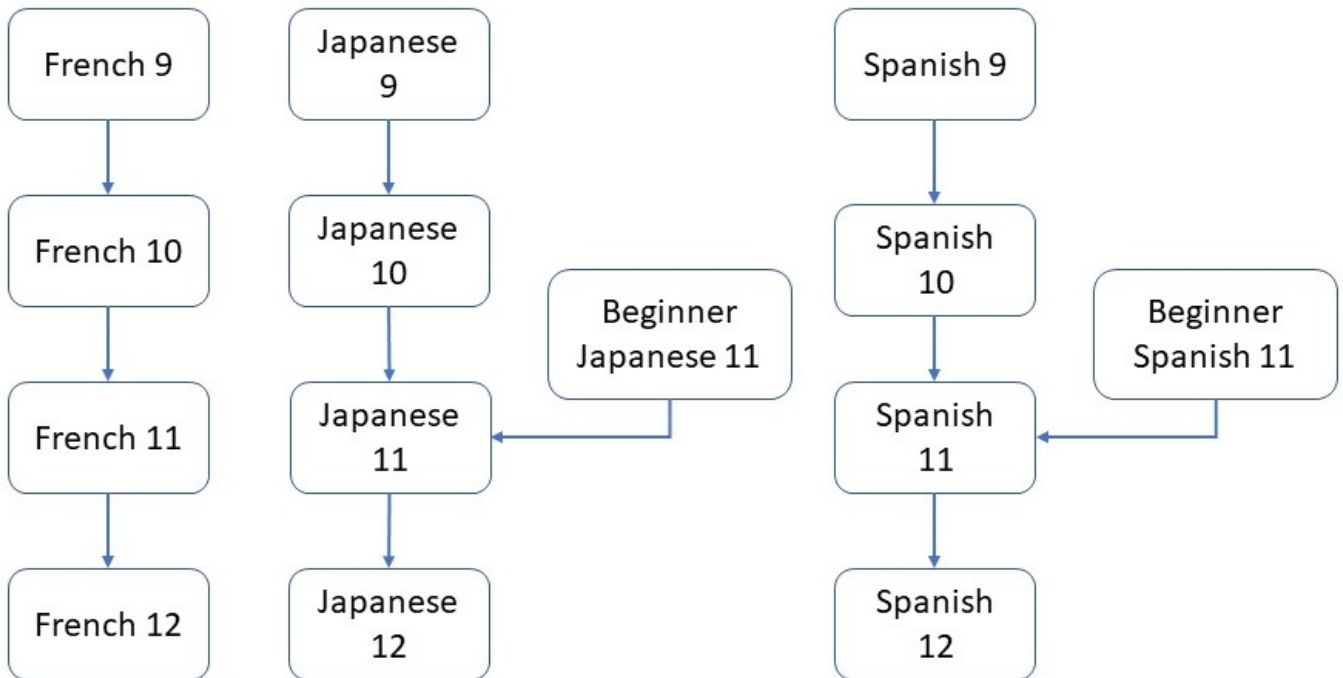
Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Professional Cook level 1 is a tuition free trades training program that provides dual credit for high school courses and a level 1 certificate towards an Inter-provincial Red Seal in Professional Cooking. This post-secondary training opportunity is a partnership between the Industry Training Authority (ITA) and the Coquitlam School District's ACE- IT program. This PC1 ACE-IT program is offered at Centennial during the second semester and requires four blocks of classes, which include three practical training blocks and one block of theory training each day. Training in this program will prepare students to handle the day to day demands of working in the culinary industry. Areas of study for PC1 include applications in the preparation and presentation of vegetables, soups, sauces, meats, fish and poultry, cold kitchen items; desserts, baking and pastries. This program will also include basic menu planning/costing as well as advanced study in safety, and sanitation procedures. Students will learn classical French cooking methods mixed with modern international cooking techniques, under the direction of a Red Seal Teaching Chef. Students can register for Professional Cook Level 1 upon completion of grade 10 or equivalent literacy and numeracy skills courses.

Course Fees: \$350.00 mandatory fee for textbooks, learning guides and uniform.

Foundation: Culinary Arts 11, Culinary Arts 12, Foods & Nutrition 12, Food Safe Level 1

LANGUAGES COURSES



French 9

Grade 9 ☑ Grade 10 ☑ Grade 11 ☑ Grade 12 ☑

French 9 builds on skills in French 8, and encourages students' active participation in acquiring a basic functional level of both spoken and written French. By the end of French 9, students should be able to begin to identify tenses and to use appropriate French expressions for a variety of oral and written tasks.

Foundation: French 8

French 10

Grade 9 ☑ Grade 10 ☑ Grade 11 ☑ Grade 12 ☑

French 10 teaches students to build on previous knowledge. Students will learn to communicate needs, desires, and emotions, and describe events and experiences in logical progression. They will develop a range of language-learning strategies to assist in comprehension and expression. Aspects of francophone culture will be introduced. The emphasis will be on communication, both written and spoken.

Foundation: French 9

French 11

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

The goal of this course is to teach students to communicate in French. Through practice in French communication, students will also gain insight into the culture in the francophone world. Students will be actively engaged in the practical use of language through conversation, writing, and media. Grammar will be taught to clarify and enhance communication skills. Evaluation will be based on reading, writing, listening, and speaking.

Foundation: French 10

French 12

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course offers an excellent opportunity to develop a feeling for the idiom of the language in all aspects: conversation, literature, grammar, and writing. There is an emphasis on French and French Canadian cultural expression and the satisfaction derived from an advanced appreciation of a second language.

Foundation: French 11

Japanese 9

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☐

Japanese 9 is an introductory course. A multimedia approach (songs, games, video and audio tapes) will be used to bring Japanese culture into the classroom. Japanese 9 is a communications course, which will allow students to function in a variety of situations. Students will learn to read and write Hiragana as well as to converse in simple Japanese.

Foundation: None

Japanese 10

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☐

Japanese 10 is designed to enhance the student's ability to communicate in the Japanese language. Students will learn Katakana and Kanji. The emphasis will be on grammar and conversational Japanese.

Foundation: Japanese 10

Japanese 11 (Introductory)

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

In this course, students will learn Hiragana, Katakana, and Kanji. This intensive course introduces the elements of Japanese 9 and 10 in one semester. Students develop their communication skills in Japanese, in a variety of situations.

Foundation: None. This course is intended for students making a late (grade 11) entry into a second language program.

Japanese 11

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Students will maintain and build on the previous courses with an emphasis towards conversational fluency. An increased number of Kanji will be introduced. Some exploration of culture will be included.

Foundation: Japanese 10 or Japanese 11 (Introductory).

Japanese 12Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Japanese 12 is a demanding course that will continue to build on what students learned in Japanese 11, but with more emphasis on reading and writing. Japanese 12 provides challenging activities that will help students understand more about the Japanese language and culture.

Foundation: Japanese 11

Spanish 9Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Spanish 9 is an introductory course that aims to develop speaking, reading, listening and writing skills needed to understand and communicate at a basic level. This course is also designed to make students aware of and appreciate various Hispanic cultures and customs.

Foundation: None

Spanish 10Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Spanish 10 is a continuation of Spanish 9. This course aims to further develop speaking, reading, listening and writing skills to an intermediate level. The course continues to explore the customs and traditions of the Hispanic world.

Foundation: Spanish 9

Spanish 11 (Introductory) Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course provides practice in all four basic language skills: listening, speaking, reading, and writing. Each activity revolves around a theme - school, family, sports, shopping, travel, etc. The material presented on each theme is practical and useful. Students will be able to make use of the vocabulary and cultural information if travelling or living in a Spanish-speaking country.

Foundation: None. Course is intended for students making a late (grade 11) entry into a second language program.

Spanish 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course extends the vocabulary and structures learned in Spanish 10 or Spanish 11 (Introductory). The majority of the activities in this course have a youth-related theme (e.g. hobbies, careers, relationships). Emphasis is on high-frequency words and expressions of contemporary spoken Spanish, supported by grammar to ensure students become accurately proficient. Hispanic culture will be studied and discussed during the course.

Foundation: Spanish 11 (Introductory) or Spanish 10

Spanish 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course enables students to appreciate more fully the richness of the Spanish language and culture through the use of a wide variety of learning activities (e.g., spontaneous conversation, original dialogue, group discussions, essay writing, and study of literature). Daily grammar and vocabulary exercises will enhance students' ability to successfully carry out learning activities. Hispanic culture will be an integral part of the course.

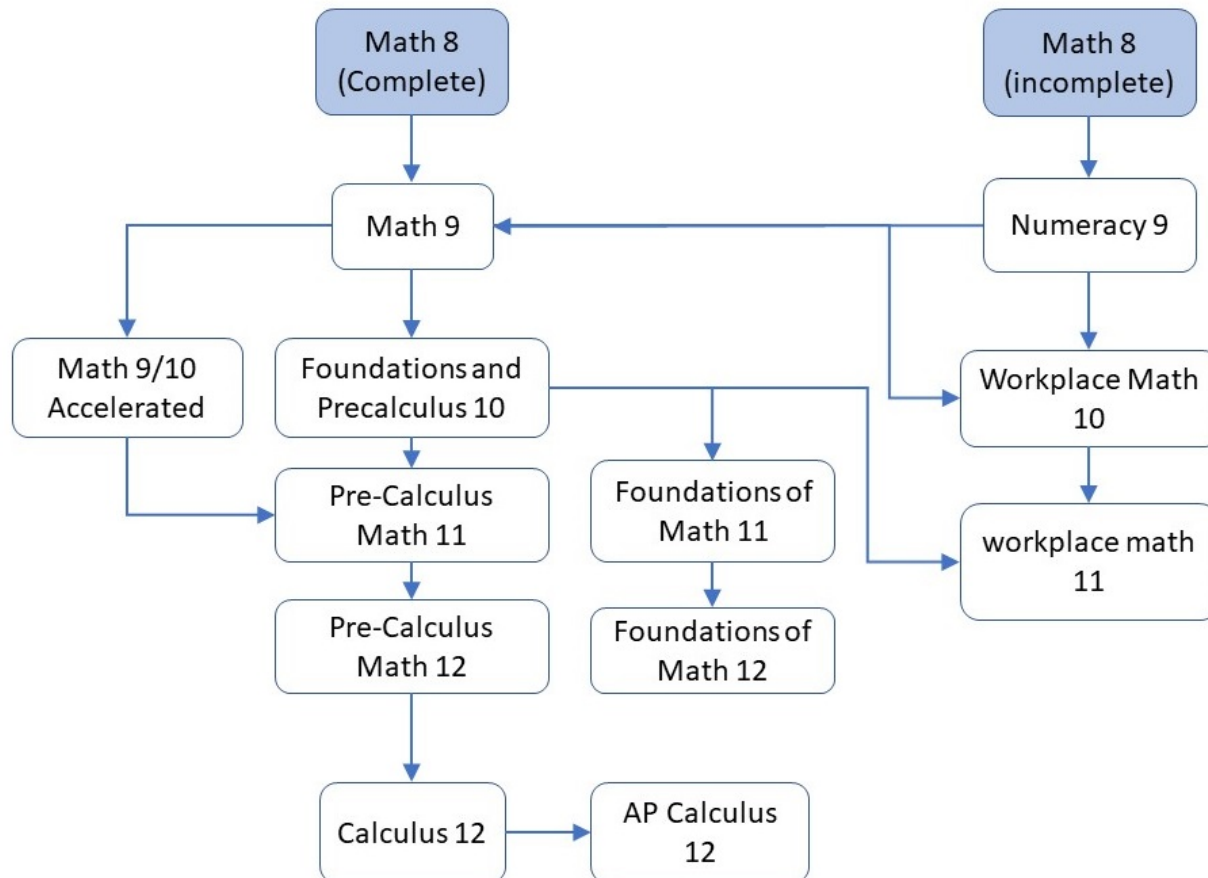
Foundation: Spanish 11

MATHEMATICS COURSES

Picking the right math course

Selecting the appropriate math course is an important decision during your time at Centennial. The following helpful tips were created to ensure you are successful in your navigation of our Math Offerings.

- ❖ Be sure you have looked at what math course is required for any post-secondary plans. Each institution and program may have different math requirements. **Important: Not all post-secondary programs require Pre-Calculus Mathematics.**
- ❖ If you struggled or did not complete Math at the Grade 8 Level, Numeracy 9 is a recommend course.
- ❖ Pre-Calculus math increases in difficulty as you move from grade 10-12. Take the time each year to evaluate how you did to help select your next year's course.
- ❖ We recommend that you talk with your math teacher and counsellor to ensure you are selecting an appropriate level every year.



Math 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This course is designed to consolidate and extend topics introduced in the middle school years. Topics include operations with rational numbers, square roots and exponents, algebra, linear relations, financial planning, and statistics. At the end of this course, students will be prepared for Foundations of Mathematics and Pre-Calculus 10 OR Apprenticeship & Workplace Mathematics 10. An alternative & modified Math 9 called "Numeracy 9" exists in our school. This is Math for students who have been identified by their teachers as needing support with middle school mathematics and are not yet prepared to begin regular Math 9. From Numeracy 9 a student can continue to Math 10 apprenticeship and workplace OR choose to work through math 9 to become ready for math 10 Foundations and Pre-Calculus.

Foundation: None

Math 9/10 Accelerated

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This is a course designed for middle school students who have demonstrated the ability and desire to participate in an accelerated program of studies in Mathematics. Qualifying applicants will be enrolled in Math 10 Foundations & Pre-Calculus (Honors) upon the successful completion and outcome on a challenge exam.

Foundation: Math 8 and satisfactory standing on math entrance exam.

Math 10 (Workplace)

Grade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

This option is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force. Topics include understanding and applying the metric and imperial systems to the measurement of 2-D and 3-D objects, geometry and trigonometry, and the fundamentals of income, spending and debt. All topics are taught within a framework of problem-solving. At the end of this course, students are prepared for Apprenticeship & Workplace Math 11.

Foundation: Math 9 or Numeracy 9

Math 10 (Foundations & Pre- Calculus)

Grade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

This option is designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary academic studies at colleges and universities. Topics include surface area and volume of 3-D objects, applying trigonometric ratios to right triangles, irrational numbers, powers involving integral and rational exponents, polynomials, and coordinate geometry with linear relations, systems of linear equations, and function notation. At the end of the course, students are prepared for either A&W Math 11, Foundations of Mathematics 11 OR Pre-Calculus 11.

Foundation: Math 9

Math 11 (Workplace)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

This course 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. The course will include topics in measurement, geometry, finance, algebra and statistics.

Foundation: Either Workplace Math 10 or Foundations & Pre-Calculus Math 10

Math 11 (Foundations)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

This course 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 theoretical calculus. This might include the Humanities, Fine Arts, some Trades and Technical programs. The course will include such topics as measurement, relations and functions, geometry, statistics and logical reasoning.

Foundation: Foundations & Pre-Calc. Math 10

Math 11 (Pre-Calculus)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

This course 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 theoretical calculus. This might include Mathematics, Sciences, Engineering and Commerce. The course will include absolute value, radical and rational equations, quadratic functions, arithmetic and geometric sequences and series and trigonometry.

Foundation: Foundations & Pre-Calculus Math 10

Math 11H (Pre-Calculus Honours)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

NEW! We are pleased to offer an honours Math 11 Pre-Calculus course for students interested in exploring mathematics with a wider scope and depth. Acceptance into this section involves an application process. This is an excellent prep course for those considering Calculus or Calculus AP.

Foundation: Foundations & Pre-Calculus Math 10

Math 12 (Foundations)Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course 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 theoretical calculus. This might include the Humanities, Fine Arts, some Trades and Technical programs. Topics include financial mathematics, logic with numbers, set theory, probability, combinatorics, relations and functions.

Foundation: Foundations of Math 11 or Pre-Calculus 11.

Math 12 (Pre-Calculus)Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course 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 theoretical calculus. This might include Mathematics, Sciences, Engineering and Commerce. Topics include trigonometry, relations and functions (exponential & logarithmic, polynomial, radical, rational, and transformations) and combinatorics.

Foundation: Pre-Calculus 11

Calculus 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

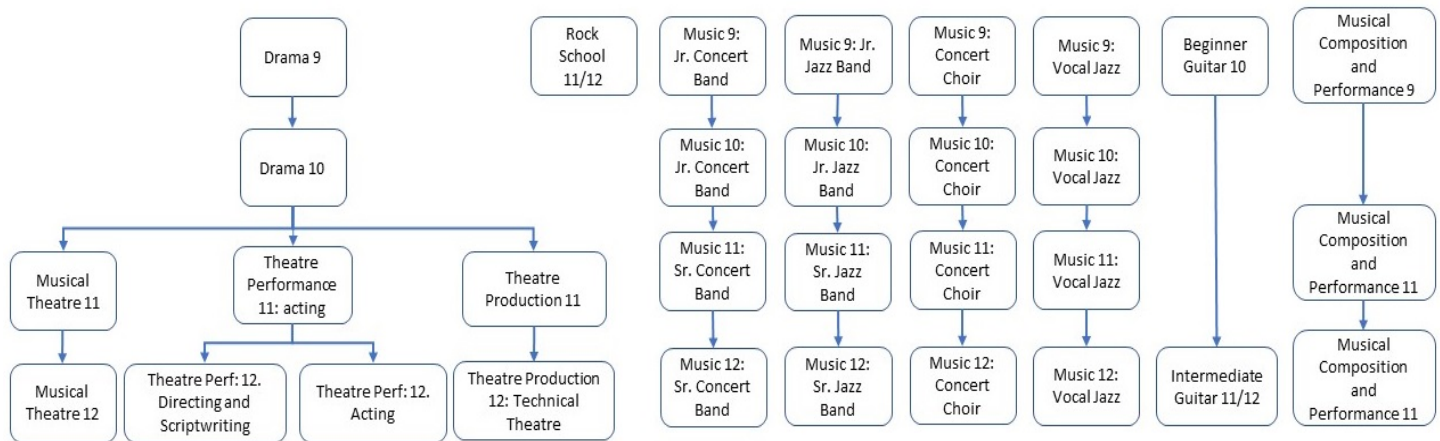
This course is very useful to students with strong mathematical ability who will be taking calculus in their first year at a post-secondary institution. The main topics are functions, limits, continuity, derivative rules, curve sketching, related-rates problems, maximum-minimum problems, integrals, areas, and volumes by integration. This course is strongly recommended for all students planning to study Sciences, Applied Science, or Business at university.

Foundation: Pre-Calculus 12**Calculus 12 AP**Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

The major component of this course is a complete first year university calculus. Students will review and extend their knowledge of algebra, geometry, trigonometry, calculus, and other areas as appropriate for contest preparation. Students may chose to write the AP exam in May. Students study differentiation, integration, and other calculus topics.

Foundation: Calculus 12

PERFORMING ARTS COURSES



Drama 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This introductory course helps students develop theatre & communication skills, creativity, and get them comfortable performing on stage. Students explore activities/topics including movement, improvisation, theatre games, short skits, scene acting and scene building.

Foundation: None

Drama 10

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

Drama 10 provides students an opportunity to explore and create dramatic scenes and characters and to learn and practice the interpersonal skills encompassing the work of the actor. Through the exploration of dramatic scripts, students will learn and practice acting techniques. Student imagination and creativity will also be developed through improvisation and theatre games. The course will prepare students to perform for a film or theatre based audience.

Beginner Guitar 10

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

If you are new to guitar or you have some experience with guitar, this course will give you the basics and more. Beginner guitar will teach you to play open position chords, strumming patterns, finger style guitar, barre chords, riffs and notation reading (chord boxes, tablature and music notation). The course would cover a wide variety of songs with the emphasis on collecting a repertoire of songs that students can play.

Intermediate Guitar 11/12

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This would pick up where the beginner course left off. If you have completed beginner guitar, or you have been playing guitar for a few years, this is the guitar class for you. Some of the topics covered would be scales for improvising and developing solos. Creating parts for 2 guitar players, learning to use alternate tunings and exploring common guitar styles i.e. r and b, blues, funk, and pop guitar. Song form would be studied and students would compose some original music for guitar.

Foundation: Beginner Guitar 10 or guitar experience.

Music 9: Concert Band

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

Whether you are new to band or already play an instrument, this course is a great choice. Develop your instrumental skills and have fun by being part of a strong group. Band 9 students work to become better musicians by performing and touring. Some of the events and activities music students will participate in throughout the school year will included performances at school and in the community, a music camp and a spring performance tour. Band 9 is an alternate day course running all year. Students are expected to attend all Band activities as part of the requirements of this course. Please contact the music director if you have questions.

Foundation: None

Music 9: Concert Choir

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

Whether you are new to choir or have sung in choirs before, this course is a great choice. Develop your vocal skills and have fun by being part of a strong group. Choir 9 students become better musicians by performing and touring. Some of the events and activities music student will participate in throughout the year will include performances at school and in the community, a music camp and a spring performance tour. Choir 9 is an alternate day course running all year. Students are expected to attend all Choir activities as part of the requirements of this course. Please contact the music directors if you have questions.

Foundation: None

Music 9: Jazz Band

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

If you like swing, funk, Latin and rock, this is the place for you! This course will run in conjunction with Band, fitting easily into your timetable as an extra course in the same block. Students who wish to be included must also register for Music 9: Concert Band. Jazz Band is an opportunity to take your skills to the next level. Those who take Jazz Band also have the opportunity to learn trumpet, trombone, saxophone or any of the rhythm section instruments.

Music 9: Vocal Jazz

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This course will provide experience in the exciting field of vocal jazz! Develop style, microphone technique, and staging awareness while performing exciting and fun music. This course will run in conjunction with Music 9: Concert Choir, fitting easily into your timetable as an extra course in the same block. Interested students must be enrolled in the corresponding level of Concert Choir.

Music 10: Concert BandGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Keep building your skills as a musician in Band 10. Students will explore concepts in music through various listening, creative and performing activities using a concert band instrument. Quality performance is stressed with our busy but fun schedule of concerts, district events and festivals. Previous experience on a concert band instrument is expected. Band 10 is an alternate day course running all year. Students are expected to attend all Band activities as part of the requirements of this course.

Foundation: Music 9 Concert Band or permission of the director

Music 10: Concert ChoirGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Join the tradition of fine music making at Centennial! Students will learn about music while participating in activities that improve their confidence and vocal skills. With steady effort, they will increase their ability to read music and expand their range. Both beginning and experienced students are welcome. Choir 10 is an alternate day course running all year. Students are expected to attend all Choir activities as part of the requirements of this course. This is an alternate day course running all year.

Music 10: Jazz BandGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

If you like swing, funk, Latin and rock, this is the place for you! This course will run in conjunction with Band, fitting easily into your timetable as an extra course in the same block. Students who wish to be included must also register for Music 10: Concert Band. Those who play another instrument in Band are welcome to learn trumpet, trombone, saxophone or any of the rhythm section instruments in this course.

Music 10: Vocal JazzGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will provide experience in the exciting field of vocal jazz! Develop style, microphone technique, and staging awareness while performing exciting and fun music. This course is open by audition only and will run in conjunction with Choir 10, fitting easily into your timetable as an extra course in the same block. Interested students must be enrolled in the corresponding level of Concert Choir.

Music 11: Concert BandGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Continue your musical development while exploring concepts in music through various listening, creating, and performing activities. Quality performance is stressed with our busy but fun schedule of concerts, district events, and festivals. This alternate day course runs all year.

Foundation: Music 10: Concert Band or permission of the director.

Music 11: Concert ChoirGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Continue the tradition of fine music making at Centennial. Students will learn about music while participating in activities that improve confidence and vocal skills. Quality performance is stressed with a busy but fun schedule of concerts, district events, and festivals. Students are expected to attend all Choir activities as part of the requirements of this course. This alternate day course runs all year.

Foundation: Music 10: Concert Choir or permission of the director.

Music 11: Jazz Band

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will run in conjunction with Music 11: Concert Band, fitting easily into student timetables as an extra course in the same block. Students who wish to be included must register for Music 11: Concert Band.

Music 11: Vocal Jazz

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will explore the exciting genre of Vocal Jazz. Develop the vocal jazz style, microphone technique, and staging awareness while performing challenging jazz harmonies. It will run in conjunction with Music 11: Concert Choir, fitting easily into student timetables as an extra course in the same block. Enrollment is by audition only. Interested students must be enrolled in the corresponding level of Concert Choir.

Music 12: Concert Band

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Continue your musical development while taking on an increased leadership role in the Music Department. There will be more emphasis on solo playing and acting as section leaders. Students are expected to attend all Band activities as part of the requirements of this course. This alternate day course runs all year.

Foundation: Music 11: Concert Band or permission of the director

Music 12: Concert Choir

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Be a leader in this refined vocal ensemble at Centennial. Students will continue to learn about music while participating in activities that improve confidence and vocal skills. Quality performance is stressed with our busy but fun schedule of concerts, district events, and festivals. Students are expected to attend all Choir activities as part of the requirements of this course. This alternate day course runs all year.

Foundation: Music 11: Concert Choir or permission of the director.

Music 12: Jazz Band

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will run in conjunction with Music 12: Concert Band, fitting easily into student timetables as an extra course in the same block. Students who wish to be included must register for Music 12: Concert Band.

Music 12: Vocal Jazz

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course will explore the exciting genre of Vocal Jazz. Develop the vocal jazz style, microphone technique, and staging awareness while performing challenging jazz harmonies. More emphasis will be placed on soloing and improvisation. It will run in conjunction with Music 12: Concert Choir, fitting easily into student timetables as an extra course in the same block. Enrollment is by audition only. Auditions will take place in January. Interested students must be enrolled in the corresponding level of Choir.

Music Composition & Production 9Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

No previous training in music is required. This course starts with any skills students already have with computers or with music (including voice) and develops their ability to compose music and improve their knowledge of computers and audio recording equipment. Using both traditional methods and contemporary audio/digital equipment, students will have opportunities to design, create and record music. In addition, students will learn about song form and how to compose with a guitar. A variety of guitar genres will be covered (folk, pop, rock etc.)

Foundation: None**Music Composition & Production 11**Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course starts with any skills students may have with computers or with music (including voice) and develops their ability to compose music and improve their knowledge of computers and audio recording equipment. Using both traditional methods and contemporary audio/digital equipment, students will have opportunities to design, create and record music that reflects their individuality. In addition, students will learn about and/or further enhance their knowledge of song form and how to compose with a guitar. A variety of guitar genres will be covered (folk, pop, rock etc.)

Foundation: None**Music Composition & Production 12**Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course starts where students finished in Music Composition and Technology 11. As well as dealing with the curricular work, students will have more individual time to produce works that demonstrate their skill as a composer, performer and/or technician. In addition, students will enhance their understanding and knowledge of song form and guitar composition by exploring a variety of genres.

Foundation: Music Comp. & Technology 11**Musical Theatre 11**Grade 9 (with permission) ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Through participation in the rehearsal, production, and performance of a Broadway musical, students will practice and polish singing, acting, and dancing skills. Centennial has a long history of producing quality musicals for the school and community. Through Musical Theatre 11, students will gain extensive performance experience. This course is designed for the serious actor, singer, or instrumentalist with a passion for the Broadway genre and involves after school rehearsal in addition to in-class work.

Foundation: None for grade 11 and 12 students; permission of the instructors for grade 9 and 10 students.

Musical Theatre 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

In this course, students continue to build on and enhance the skills needed for musical theatre (see write up for Musical Theatre 11).

Foundation: Musical Theatre 11

Rock SchoolGrade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is designed to provide the skills and prepare you for pursuing music either professionally or as a musician arranging music within a group context. This innovative course provides instruction on how to play in a range of groups: modern pop, rock, rap etc. It is for ALL MUSICIANS who already know how to play or sing but need help in putting it all together. The course covers rehearsal techniques, professional behaviours, and how to develop repertoire as a group. It includes how to organize and perform at concerts and dances, as well as how to work and prepare for recording digital audio formats. There will be extensive instruction on marketing yourself in the real world of music and/or related fields: i.e., promotion; making contacts; understanding contracts, royalties and dealing with agents; professionalism; how to create a 'gig' as well as professional networking. This is a 'must-take' course should you want to pursue music as a professional or amateur musician.

Theatre Performance 11: ActingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is designed to develop formal acting skills and to provide extensive experience in presenting scripted material, including award winning plays. Students develop creativity and communication skills through theatre games; script and character analysis; and creating, coaching, and rehearsing with presentations. Through the exploration of various dramatic scripts, students will learn and practice the techniques of the actor, and understand the psychology of the characters they play. The focus is on living truthfully in imaginary circumstance. Students with an interest in performing for theatre or film are strongly encouraged to take this course.

Theatre Performance 12: ActingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Building on the knowledge and experience gained in Theatre Performance 11, this advanced theatre course is for the highly motivated acting student interested in publicly performing for theatre or film. Through work on dramatic scripts, including award winning plays, students engage in script analysis and learn to both develop physical and behavioural interpretations of characters and to find and play themselves in characters' situations. Students with a keen interest in theatre/film/TV acting and/or performing plays/musicals are strongly encouraged to take this course.

Foundation: Theatre Performance 11: Acting

Theatre Performance 12: Directing & Script WritingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Students with a creative flair and keen interest in theatre, combined with above average writing skills will enjoy this writing and directing course. Writing plays for the stage and then directing them is a major focus of this course. After-hours time is required. Students are admitted with the teacher's permission.

Foundation: Theatre Performance 11 or by teacher permission

Theatre Production 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will appeal to those students who have an interest in learning set building skills for theatre or film. It offers training in the technical craft of effective presentation of theatre, focusing primarily on construction of scenery sets and some props. Students are required to put in time beyond class hours and to crew our major Musical Theatre production, moving and managing the sets during rehearsals and performances, coordinating with the actors and stage management.

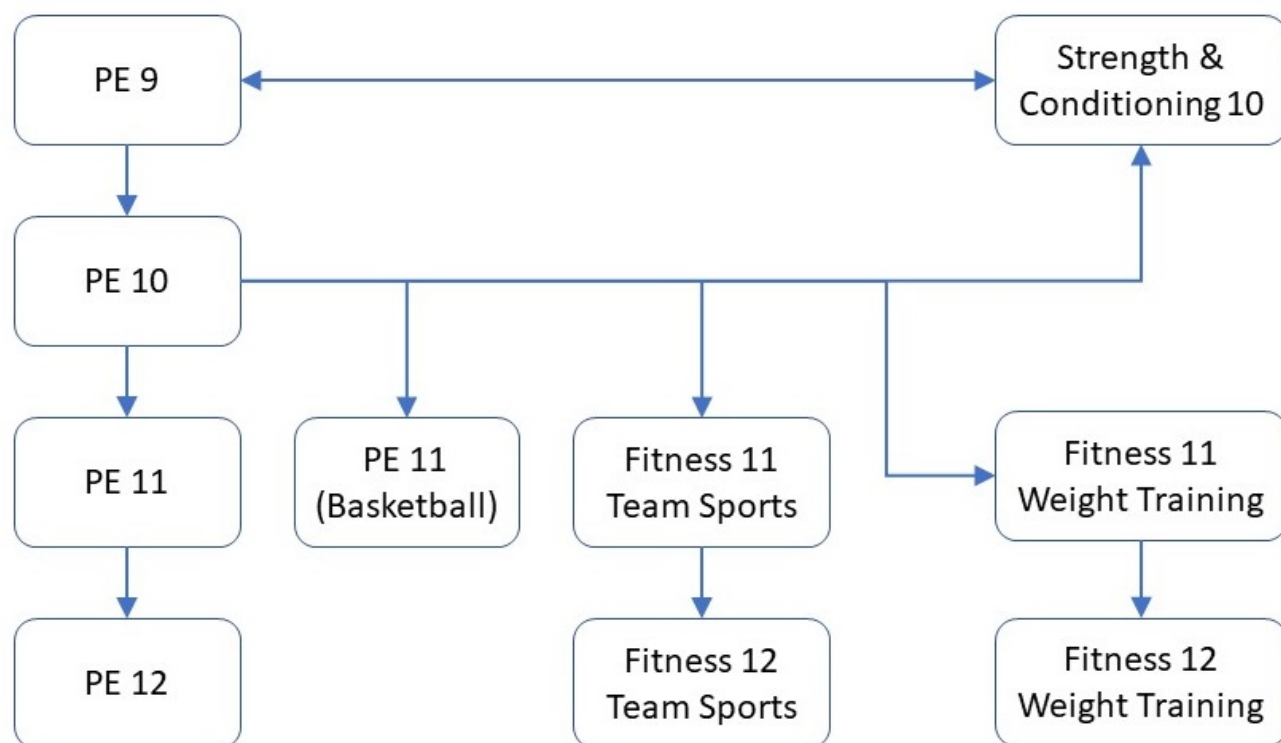
Foundation: None

Theatre Production 12: Technical TheatreGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will continue to build on the skills learned in Theatre Production 11, and will appeal to those students who have an interest in learning set building skills for theatre or film. It offers training in the technical craft of effective presentation of theatre, focusing primarily on construction of scenery sets and some props. Students are required to put in time beyond class hours and to crew our major Musical Theatre production, moving and managing the sets during rehearsals and performances, coordinating with the actors and stage management.

Foundation: Theatre Production 11 or permission of the instructor.

PHYSICAL EDUCATION COURSES



Physical and Health Education 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

The goal of PE 9 is to expand and enhance the learner's athletic skills and knowledge through a variety of team sports and individual and dual activities. The development and maintenance of the learner's fitness level is emphasized throughout the semester. A course enrichment fee will be charged to cover the cost of curricular offerings such as swimming, skating and bowling. PE 9 is taught in a coeducational setting.

Physical and Health Education 10

Grade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

The goal of the PE program is to expand upon the learner's athletic proficiency and leadership through a variety of team sports and individual and dual activities. The development and maintenance of the learner's fitness level is emphasized throughout the semester. In addition, students will participate a Self Defense unit as well as the ACT Foundation's CPR A First Aid course. A course enrichment fee will be charged to cover the cost of curricular offerings such as Self Defense, CPR certification, skating and bowling. PE 10 is taught in a coeducational setting.

Foundation: PE 9

Fitness 11 - Team Sports

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is for those students interested in the opportunity to further enhance their expertise in team sports. The emphasis will be on advanced skill development, game play, team strategies and fitness. This course does not offer any field trips as all activities are done in-school; therefore, there is no course fee attached to this class.

Foundation: PE 10

Fitness 11 - Weight TrainingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Fit your weight training routine into your daily schedule and get credit for it. This course is for beginners and experienced weight-trainers, and is a great opportunity to improve your overall fitness level through weight training. You will learn about muscle physiology and anatomy, as well as do a broad range of programs working on muscular endurance and strength. This is a good opportunity to use class time to improve your body for the activities in your life.

Foundation: PE 10**Fitness 12 - Team Sports**Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is for those students interested in the opportunity to further enhance their expertise in team sports. The emphasis will be on advanced skill development, game play, team strategies and fitness. This course does not offer any field trips as all activities are done in-school; therefore, there is no course fee attached to this class.

Foundation: Any PE 11**Fitness 12 - Weight Training**Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is intended to expand on the principles and techniques taught in Weight Training 11. This is a great opportunity to fit your weight workout into your school schedule. A high level of fitness or weight training experience is not required; students need only a desire to participate and to improve. The emphasis is on developing a personal fitness program while focusing on safety, warm-ups, basic procedures, nutrition and advanced training programs and principles. Students who have successfully completed Weight Training 11 may take this course, otherwise permission from the teacher is required.

Foundation: PE 11 Weight Training**Physical Education 11 Basketball**Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is for those students interested in the opportunity to further enhance their expertise in basketball. The emphasis will be on advanced skill development, game play, team strategies, and strength and conditioning. This course will be offered in the mornings before period one. It will run four days per week (no class on Wednesdays) from the beginning of September until the end of November and starting up again through April-May-June.

Foundation: PE 10**Physical Education 11 General**Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course offers students the chance to participate in a wide variety of physical and leisure activities offered in an enjoyable and co-educational atmosphere. Activities are selected from the following: badminton, volleyball, basketball, minor games (archery, lacrosse, handball, pickleball), outdoor field games (soccer, rugby, flag football), bowling, golf, curling, skating, softball, swimming, and weight training. Students will have the opportunity to enhance and learn skills in selected activities. Field trips are an important part of the course; a course enrichment fee will be charged for these trips which typically include a selection of Rock Climbing, Go-Karts, Trampoline Park, Bowling, Skating, Lazer Tag among others.

Foundation: PE 10

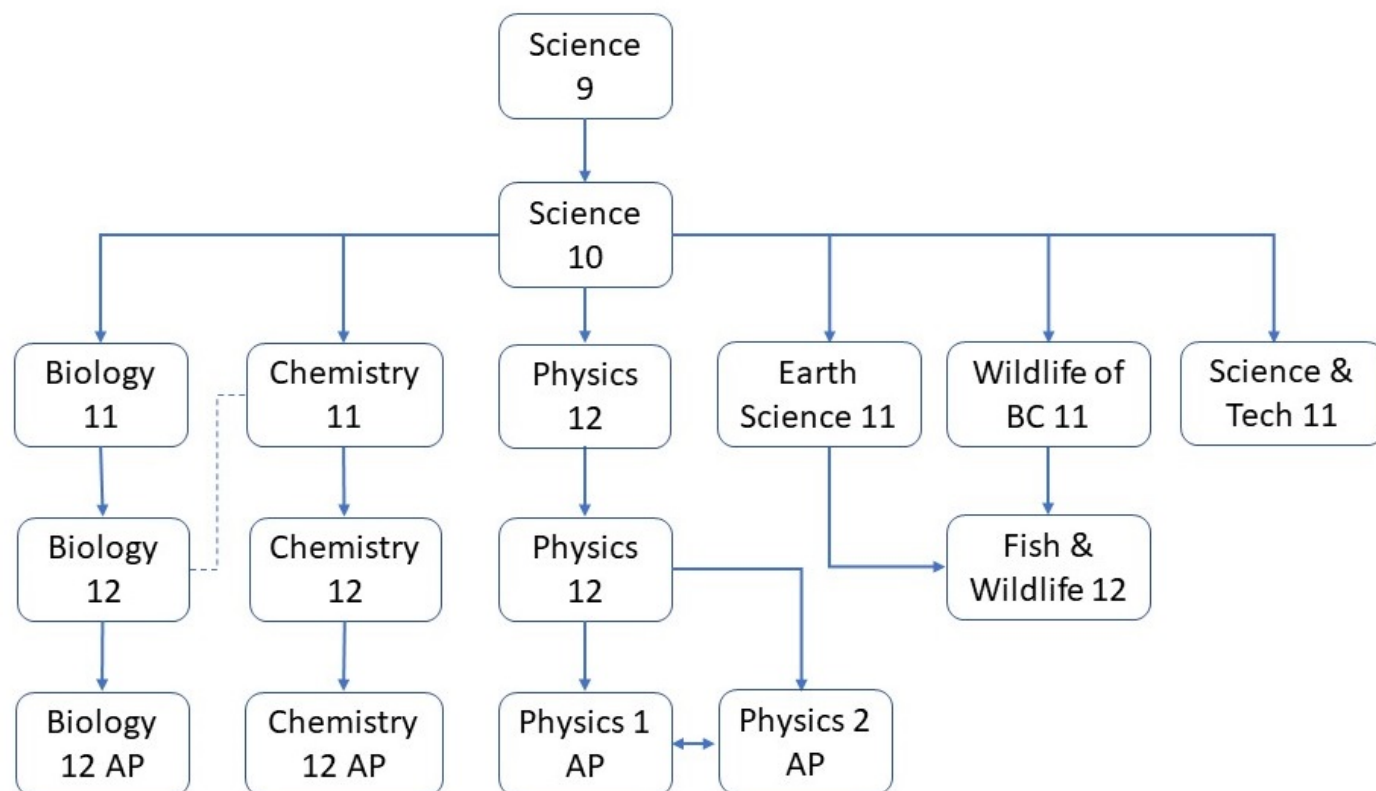
Physical Education 12 GeneralGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course offers students the opportunity to further their expertise in the activities offered in Physical Education 11. Emphasis is on the development of recreational activities and lifetime skills. Additional activities may include bowling, curling, golf, and outdoor education (including rock climbing, canoeing, kayaking). This course would be an asset to students interested in a career in recreation or physical education, but would also be of interest to students who like a variety of activities and are interested in personal fitness. Field-trips are an important part of the course; a course enrichment fee will be charged for these trips which typically include a selection of Rock Climbing, Go-Karts, Trampoline Park, Bowling, Skating, Lazer Tag among others.

Strength and Conditioning 10Grade 9 ☒ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

The objective of this program will be to utilize a variety of fitness training methods to improve strength, agility, and coordination. Emphasis will be placed on demonstrating safe and appropriate training technique in the weight room and other training environments. Knowledge of nutrition and principles of training will also be other major areas of focus. No prior weight or strength training experience is required to be in this course.

SCIENCE COURSES



Science 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

The Science 9 course introduces students to individual and group discovery in a laboratory setting. This course is activity based with an emphasis on four areas of scientific discovery. In Chemistry, the major concepts of ionic compounds and patterns within the periodic table are explored. In Physics, the major emphasis is on static and current electricity. Students will explore topics in Biology related to sexual and asexual reproduction as well as cell division. Topics in Environmental Science will also be explored particularly related to the carbon cycle, energy flows, and human impacts on the environment. The course goals are to introduce students to scientific discovery and a wide range of scientific knowledge, and to teach them to work effectively in a group setting. Note: Students with a C- in science 8 are recommended to have an LEC support block concurrently when taking science 9. A course fee of \$15 is applied to cover the cost of field trips and other enhanced experiences that meet the suggested intentions of the new curriculum.

Science 9 Pre-APGrade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This program allows academically strong grade 9 students to accelerate, thereby providing some additional preparation time for the Advanced Placement science courses in their grade 12 year. Grade 9 students in the pre-AP program are enrolled in Science 9 Pre-AP in the fall semester. In the second semester of their grade 9 year, students then take Science 10 Honours. In grade 10, students would take one or more grade 11 level science courses followed by grade 12 level courses in grade 11. In their grade 12 year, students would be eligible to choose from a variety of AP Seminar science courses. Separate application form and recommendation from the Science 8 teacher and counsellor is required.

Science 10Grade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

The Science 10 course encourages students to work together in a laboratory setting to safely investigate a variety of topics in the four major science areas. There will be four big ideas that will be investigated: genes are the foundation for the diversity of living things, chemical processes require energy change as atoms are rearranged, energy is conserved and its transformation can affect living things and the environment, the formation of the universe can be explained by the big bang theory. The goals of the course are to increase scientific knowledge, to promote critical thinking skills and proper lab skills, and to instill appropriate attitudes about safety. This course is a mandatory graduation requirement.

Foundation: Science 9

Science 10 HonoursGrade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

Science 10H covers the same topics as the regular Science 10 course, but with some enhancements, and at a slightly quicker pace. The course is meant for academically strong students who are interested in taking more than one specialty Science course at grade 11 and 12 levels. There will be four big ideas that will be investigated: genes are the foundation for the diversity of living things, chemical processes require energy change as atoms are rearranged, energy is conserved and its transformation can affect living things and the environment, the formation of the universe can be explained by the big bang theory. Interesting laboratory experiments and activities are part of the course. Typically, students are enrolled in Science 10 Honors after first completing Pre-AP Science 9; however, interested students may apply with a recommendation from a Science 9 teacher and a counsellor.

Foundation: Science 9 Pre-AP or Science 9 with a final grade of A

Science & Technology 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course will take a unique approach to science by looking at the practical applications of scientific principles and evaluating the positive and negative effects of technology on society and the environment. Advances in various areas such as communications, energy and resources, health, transportation, and manufacturing will be investigated. Problem solving will be emphasized and evaluation will involve a combination of classroom and project work. This course will fulfill the Science 11 requirement for graduation but not for university entrance.

Foundation: Science 10

Biology 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Biology 11 is designed to introduce students to the diversity of living organisms and their adaption to their environment. The major Kingdoms are examined and topics covered include: taxonomy, evolution, microbiology, plant biology, animal biology, mycology and ecology. The theme of evolutionary change is carried out in all units of study. There is also a heavy emphasis on laboratory work which includes microscope work and dissections. There is a course fee of \$30, which is used to cover enhanced versions of certain labs such as animal dissections and live organisms. All course fees are optional, and if a student chooses not to pay, alternative, appropriate activities will be available to fully cover the curricular outcomes.

Foundation: Science 10

Biology 12Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Biology 12 is a fast-paced, advanced, academic course that covers two major areas of study: cell biology and human physiology. Cellular biology covers biological molecules, cell structure, cell membrane transport, DNA, protein synthesis, and enzymatic activity. Human physiology covers the major body systems: digestive, respiratory, circulatory, excretory, nervous and reproductive. Biology 11 skills and concepts including microscope work, dissection work, evolutionary concepts are critical components of Biology 12. There is a course fee of , which is used to cover enhanced versions of certain labs including the fetal pig dissection, sheep heart dissection, and a sheep brain lab. All course fees are optional, and if a student chooses not to pay, alternative, appropriate activities will be available to fully cover the curricular outcomes.

Foundation: Biology 11. Chemistry 11 is strongly recommended for the Cell Biology component requires chemistry background.

AP BiologyGrade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This semester two course is for the highly motivated, scientifically-minded Biology student who wishes to study Biology 11 and 12 course content in greater depth and detail. This fast-paced course introduces the student to the rigors of university-level material and has an extensive inquiry-based laboratory component. The College Board AP curriculum is equivalent to a first-year Biology course at a college or university. Course content is structured around four big ideas: a) Evolution as the driving force of diversity and unity of life; b) The use of free energy in biological systems; c) Living systems; and d) Interaction of biological systems. There is an optional College Board AP Biology exam in May for students who wish to obtain advanced standing for credit at some universities. There is a \$25 specimen fee for dissections. All course fees are optional, and if a student chooses not to pay, alternative, appropriate activities will be available to fully cover the curricular outcomes. There is also a supplemental application form for this course; please see a counsellor.

Foundation: Biology 11, Biology 12, Chemistry 11, and Chemistry 12. Achievement in Biology 12 should be an "A" or "B". Chemistry 12 should be taken in semester one or concurrently in semester two. Strong science skills such as hypothesizing, designing experiments.

Chemistry 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Chemistry 11 involves the study of atoms, molecules and matter, chemical reactions, solution chemistry, and organic chemistry. It introduces the concept of the mole, and how it applies to chemical reactions. Many interesting laboratory experiments are performed to help students understand the lecture concepts. This is a heavily math-based course, and a C+ or higher in Math 10 Foundations and Pre-Calculus is highly recommended*. Students, who enjoy writing chemical formulae and working through chemical reaction calculations, will enjoy this course. *Science 9/10 Pre-AP Honours students are exempt from this Math requirement, if they are taking this course in their grade 10 year.

Foundation: Science 10

Chemistry 12Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Chemistry 12 builds on experiences in Chemistry 11. Students must have a good understanding of the Mole Concept, Stoichiometry and Solution Chemistry taught in Chemistry 11. Since there is a strong mathematical problem solving component involved in this course, it is advisable that students achieved a C+ (or higher) standing in Chemistry 11 and in Pre-Calculus Math 11/12. Many interesting lab experiments will re-enforce the understanding of rates of chemical reactions, chemical equilibrium, reactions in solution, acid-base chemistry, and electrochemistry. Students will gain an increased understanding of the importance of chemistry in the modern world.

Foundation: Chemistry 11 and Pre-Calculus Math 11/12 recommended

AP ChemistryGrade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course covers material equivalent to first year university chemistry. It is an excellent preview of university chemistry and will give students an advantage in post-secondary science programs. Labs will be done in class and virtually (via software). Course topics include: Unit 1 – Structure of Matter (atomic structure, chemical bonding, nuclear bonding); Unit II - States of Matter (gases, liquids and solids, solutions); Unit III – Reactions (types, stoichiometry, equilibrium, kinetics, thermodynamics); and Unit IV – Organic Chemistry. In May, the students have the option of writing the College Board Advanced Placement Chemistry exam which could give them university credit for the course.

Foundation: Chemistry 12

Earth Science 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course explores the Earth and its place in the solar system and involves a hands-on approach to studying rocks and minerals, plate tectonics, the hydrosphere and surface processes, geological time, and astronomy. These topics are covered through an integration of class work, labs, projects and limited field studies. This course fulfills the Science 11 requirement for graduation.

Foundation: Science 10

Physics 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This is the first course in the secondary physics program, and is designed to introduce students to the study of Physical Science as a discipline. Since Physics 11 offers the opportunity to experience a structured scientific approach to the forces affecting the natural world, good mathematical problem solving skills are important. While the grade 11 course focuses on the motion of objects and the classical foundations of physics in preparation for grade 12, students also explore light, waves, optics, and nuclear energy. Students are encouraged to develop a scientific and positive attitude towards the understanding of physical science.

Foundation: Recommended C+ standing in both Science 10 and Math 10 – Foundations or Pre-Calculus

Physics 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This is the second course in the secondary physics program, and is designed to prepare students for further study of physical science at a post-secondary level. The focus in grade 12 is on a structured mathematical foundation for applying physical laws to the two and three-dimensional world. Classical Newtonian mechanics, introduced in grade 11, are further explored for the first half of the course, while the second half provides students with a thorough grounding in electromagnetism. Students will have the opportunity to compete in local, national, and international physics competitions.

Foundation: Recommended C+ standing in Physics 11

Physics 1 APGrade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

Advanced Placement Physics 1 offers students the opportunity to study most of the concepts of a first year college or university general physics course. Successful completion of the course and sufficient achievement on the Advanced Placement Exam in May will determine if college or university credit or advanced placement is granted. Topics of study include all of the material studied in Physics 11 and additional topics beyond the BC curriculum. Many of these topics are examined in greater detail and depth.

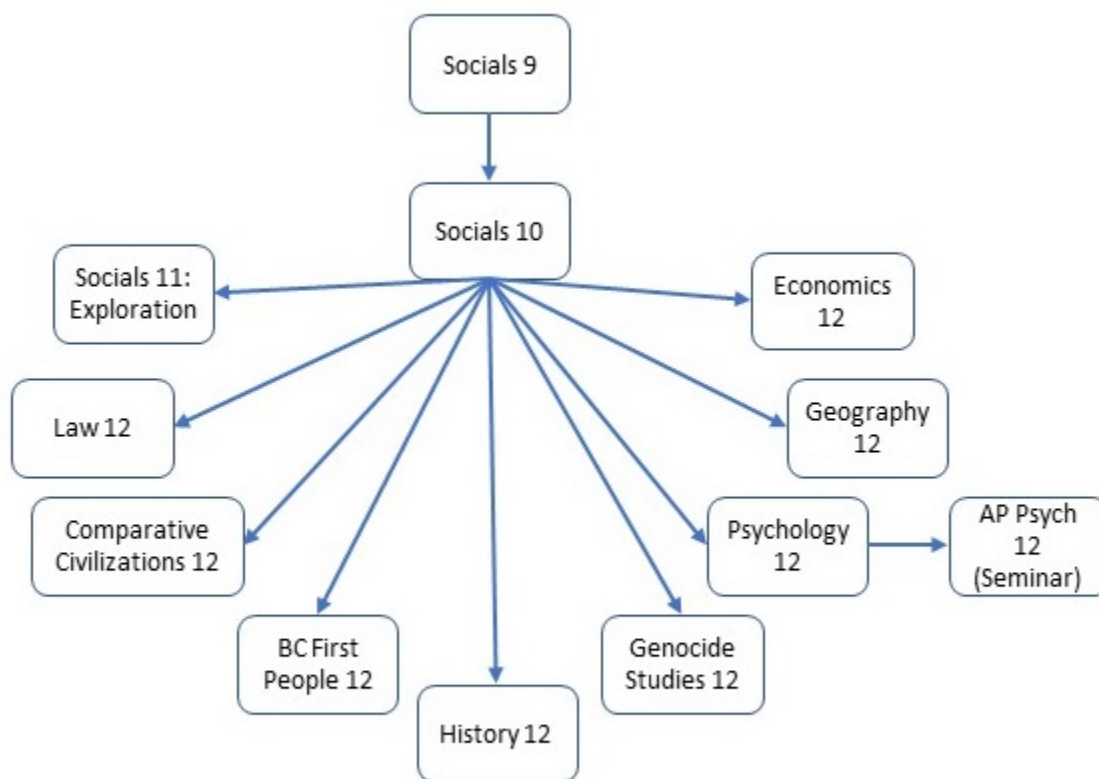
Foundation: Science 10 (Honours)

Physics 2 APGrade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

Advanced Placement Physics 2 offers students the opportunity to study most of the concepts of a first year college or university general physics course. Successful completion of the course and sufficient achievement on the Advanced Placement Exam in May will determine if college or university credit or advanced placement is granted. Topics of study include all of the material studied in Physics 12 and additional topics beyond the BC curriculum. Many of these topics are examined in greater detail and depth.

Foundation: Physics AP 1

SOCIAL STUDIES COURSES



Social Studies 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

In Social Studies, it is our hope that students learn more about themselves, each other and the world we inhabit. In this course we hope student develop critical thinking skills and come to know how Canada has been influenced by ideas, environment, power and identity from circa 1700-1911. Students will be successful in this course when they can demonstrate their capacity to interpret evidence, assess and defend positions, conduct inquiry related to our course topics. Students completing SS9 will be able to tell a fuller, more inclusive story about Canada and have a sense of their own place in Canada's past, present and future.

Foundation: None

Social Studies 10

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☐

This course contributes to a greater understanding of Canada and its relationship to the rest of the world. Major topics include Canada's political and historical development since 1911; the present structure of Canada's government and legal system; and the world's changing population and the impact of continuing growth. A cumulative final may be given at the commencement of the course.

Foundation: Socials 9

BC Social Explorations 11Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This is a new course that provides grad credits for Social Studies and also sets up our Grade 12 electives such as History, Law, Comparative Cultures, and Geography. This course explores themes and topics such as Social Justice, First Nations Studies, Economics, Human Geography, Urban Studies, Philosophy, and Local History. We will examine what we as Canadians believe about life and how those beliefs affect our global relationships. All of these are important to determining our roles in the global village.

Foundation: Socials 10

BC First Peoples 12 (BC First Nations Studies 12)Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course provides students with an opportunity to explore the traditions and art of First Nations cultures. The identities, worldviews, and language of BC First People's are renewed, sustained and transformed through their connection to the land. The impact of contact and colonialism continues to affect the political, social and economic lives of BC First People's. The impact of Residential Schools is explored and the understanding of the multi-generational impact that affects many First People's today. The course is developed from a core curriculum including the management of natural resources, land use, self-government, and the impact of European settlement on First Nations societies.

Foundation: Socials 10

Comparative Civilizations 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Comparative Cultures investigates the interactions between belief systems, social organization, environmental factors and how they influence the development of complex cultures. We will investigate topics such as artistic expressions, agriculture and trade and power structures within different societies. This is a project-based course designed to spark a student's curiosity for various civilizations throughout the world and the contributions and influences these civilizations have made to the present human experience. Possible areas of investigation include: Gobekli Tepe, Mesopotamia, Ancient Egyptian, Indian, Chinese, and Greek civilizations, the Roman Empire, Feudal Japan, Maya, Aztec and Inca civilizations, the Byzantine and local First Nations cultures.

Foundation: Socials 10

Economics 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is an introduction to the fundamentals of economic theory. Students will investigate such topics as economic systems, the structure of business, employment and inflation, money, stabilizing the economy, and international trade. Economics 12 involves observing, interpreting, and judging past economic conditions from different perspectives and exploring how worldviews have given rise to competing approaches today. It is of special interest to those who may do further study in law, business management, political science, economics or commerce, or those entering directly into the business world.

Foundation: Socials 10

Geography 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course examines the physical features and environment of our planet and how humans interact with it. A detailed study of weather and biosphere is an important part of the course, as is the study of earthquakes, volcanoes, glaciers, and erosion. The following topics will also be discussed: Quality of Life (pollution, population, energy, food, and wildlife), Resources (types, exploration, development, and conservation). Course may require a course fee for a student workbook.

Foundation: Socials 10

Genocide Studies 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course examines genocide in modern history, including political, legal, social, economic and cultural ramifications. Examples include Armenia, the Holocaust, Cambodia, the Former Yugoslavia, Rwanda, the Congo, and Darfur. In addition, we will look at international law and reconciliation as it pertains to genocide. The course is designed to provide a challenge for students who wish to pursue further studies in international law, history, political science including diplomacy, mediation and reconciliation.

Foundation: Socials 10

History 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

History 12 focuses on the significant historical changes of the twentieth century. Students review the forces, events, and personalities which have shaped the modern world. Students will have the opportunity to apply critical thinking and problem solving skills to the two world wars, Communism, Fascism, Nazism, the Depression, and major post-World War II events. History provides students with the opportunity to better understand the present by examining the past.

Foundation: Socials 10

Law 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Law 12 will examine criminal and civil law (primary focus on criminal law). Students will have the opportunity to study and research current legal issues. This course is designed to provide a challenge for students who wish to enroll in a post-secondary institution to obtain a degree in law or criminology, or a diploma in related fields in the legal system. A component of this course will be an exploration of career options through guest speakers and field trips to the law courts.

Foundation: Socials 10

Psychology 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Are you interested in the brain and behaviour? Through the study of psychology, students will acquire an understanding of and an appreciation for human behaviour, behavioural interaction, and the development of the individual. Topics of study include sensation and perception, learning, human development, personality and psychological disorders.

Foundation: Socials 10

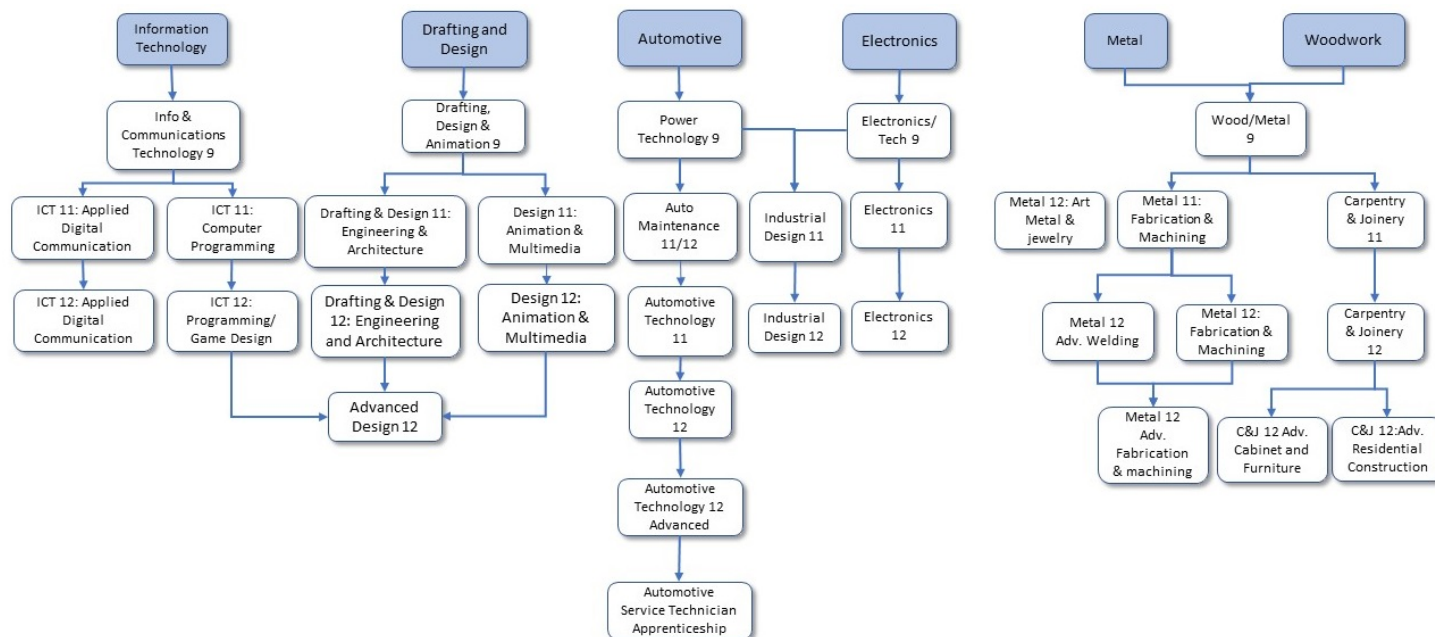
Psychology 12 AP Seminar

Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

AP Psychology is designed to introduce students to the scientific study of human behaviour and mental processes. Students will be exposed to the psychological facts, principles, and phenomena associated with the topics of neuroscience, behaviour, sensation and perception, consciousness, learning, cognition, emotion, development, personality, disorders, and treatment. This course is a university-level Psychology preparation based course. In May, the students have the option of writing the College Board Advanced Placement Psychology exam which could give them 6 university credits for the course. Note: A fee is required for those writing the official College Board AP exam in May.

Foundation: Grade 11/12 Socials Course

TECHNOLOGY EDUCATION COURSES



*** In many technology education courses there is an additional enrichment fee. This optional additional cost allows students to take projects home and use materials of higher quality than those traditionally used.

Automotive Maintenance 11

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This 'Car Maintenance' course is designed to provide a hands-on experience for students who are new drivers, or who soon will be. Students who select this course will focus on purchasing, operating, and maintaining an automobile through a series of classroom sessions, demonstrations, and shop work. Practical experiences will include body and interior care, minor tune-up, lubrication, brake and cooling system service, tire and wheel care and safety inspection. Used car evaluation will also be covered. Students will learn the safe and proper use of tools and equipment and will become familiar with technical service information. A popular course for both male and female students, please note that this course does not meet the foundation course requirements for Automotive Technology 12.

Foundation: Power Technology 9 for grade 10 students; no foundation course for grade 11 and 12 students.

Automotive Technology 11

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is designed to provide a basic education in areas related to automotive service and repair. Students will develop skills that will serve them well in terms of either general interest or as a possible career path. This course is a mixture of theoretical and practical experience, with emphasis on basic concepts and theory as well as a focus on the safe use of tools and equipment used in the automotive service industry. This is a hands-on course where students will work in a modern and well-equipped shop.

Foundation: None

Automotive Technology 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This senior level course can be taken alone or in conjunction with Automotive Technology 12 Advanced. Automotive Technology 12 builds on the basic groundwork laid out in Automotive Technology 11. Theory is taught on an ongoing basis and complements the emphasis on practical experience, attitude, and employability skills. During the practical portion of the course, students will work on live jobs in a well-equipped, up-to-date shop.

Foundation: Automotive Technology 11

Automotive Technology 12 Advanced

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is to be taken in conjunction with Automotive Technology 12 as a double block. Students will have the opportunity to further their practical skills and will enjoy the emphasis on daily shop experience. Safety, participation and attitude are stressed in this industrial setting. **This course is open to any student enrolled in Automotive Technology 12.**

Carpentry & Joinery 11

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This introductory level course will provide students with the opportunity to develop their skills and produce projects using a variety of woodworking processes including the use of hand, power and CNC tools and equipment. This course is valuable for students interested in continuing to higher-level Carpentry and Joinery courses, as well as those seeking to gain some practical experience to enhance hobbyist or homeowner skills. Students will select and plan project work which will challenge them and provide a satisfying experience. This course provides an excellent opportunity to work in a well-equipped woodshop. Safety and the proper use of tools and equipment will be emphasized.

Carpentry & Joinery 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This senior level course will build on skills learned in Carpentry and Joinery 11. General in nature, this course will provide instruction and practical experience in furniture construction, cabinetmaking and residential construction. Students enrolling in Carpentry and Joinery 12 can expect to produce high quality project work using up-to-date tools and equipment. Students will be encouraged to develop employability skills in addition to practical skills. Safety and proper use of tools and equipment will continue to be emphasized.

Foundation: Carpentry & Joinery 11 recommended.

Carpentry & Joinery 12 Advanced: Cabinet and Furniture Construction

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This advanced course will provide instruction and practical experience focusing on cabinetmaking and furniture construction. A good foundation for students considering cabinetmaking or furniture construction as a career, this course would also appeal to students with a keen interest in woodworking as a hobby. Project work will allow students to develop their skills in both design and construction processes. An emphasis on advanced woodworking processes, quality and accuracy will complement continued instruction on safety and employability skills.

Foundation: Carpentry & Joinery 11; Carpentry & Joinery 12 recommended.

Carpentry & Joinery 12 Advanced: Residential ConstructionGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This advanced course will provide instruction and practical experience focusing on wood frame building construction. Students planning to pursue a career in the construction industry would benefit from the skills developed in this course. Practical work in this course includes working as a part of a team to build a shed using standard building construction techniques. Worksite safety and employability skills will be emphasized.

Foundation: Carpentry & Joinery 11; Carpentry & Joinery 12 recommended.

Drafting, Design & Animation 9Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

This entry-level exploratory course will introduce students to a variety of drafting, design, animation and graphic communication techniques. A number of areas will be covered including sketching, instrument drawing, 2D CAD, 3D modeling, 2D and 3D animation, computer graphics and architectural design, using both instruments and a variety of available up-to-date computer software. Students will acquire a useful set of skills that can be applied to many career and life choices.

Design 11: Animation & MultimediaGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

The focus of this course is on 2D and 3D animation, graphics and multimedia productions. While the course will begin with an introductory week of traditional sketching and character design, students will be using computer tools for their animation work. The course will conclude with students building a multimedia portfolio of their course project work. Digital movie production and game design are strong industries in Vancouver and there are many local post-secondary programs that students can pursue. Students interested in storytelling, creating animated movies, video games, 3D modeling, and creating 3D environments will find this course valuable.

Foundation: None

Design 12: Animation & MultimediaGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Designed for those students who want to go beyond what they learned in Design 11: Animation & Multimedia, this senior course will allow students to build on the skills previously learned, to produce more advanced 2D & 3D computer animation and multimedia productions. The course will conclude with students building a multimedia portfolio of their course project work. If you enjoy creating 2D and 3D animated multimedia productions, then this is the class for you! This course can help prepare students for rewarding careers in related fields in the movies, television, special effects, advertising, and many other design and entertainment related areas.

Foundation: Design 11: Animation & Multimedia.

Drafting & Design 11: Engineering & ArchitectureGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

The skills learned in this course will be invaluable to those who intend to pursue design and drawing related careers. The focus will be on technical drawing and illustration. This course covers basic sketching techniques, 2D CAD, 3D modeling, architectural design, and the design and problem solving process. Students will become proficient in the use of AutoCAD, Solid Edge, and Chief Architect software in order to complete the various course projects and activities.

Foundation: None

Drafting & Design 12: Engineering & Architecture

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Whether your interests are in architecture, product design or engineering, this senior level computer drafting & design course will help you explore a wide range of techniques and processes that will build on skills already learned in the grade 11 course. Students have the opportunity to work individually and in small groups on a variety of projects, using several up-to-date design software packages. Project work provides a practical look at such areas as residential, interior, furniture, automotive, and consumer product design, and can help prepare students for rewarding careers in related fields such as architecture, landscape architecture, interior design, urban design and engineering.

Foundation: Drafting & Design 11EA

Advanced Design 12

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

In this career-focused course, students have an opportunity to be involved in self-directed studies focused on topics of individual interest that relate to a variety of career sectors such as engineering, architecture, interior design, landscape architecture, urban planning, automotive design, computer graphics, fashion design, 2D & 3D animation, 3D game design, and multimedia production. Students will utilize advanced skills, knowledge, and features of previously used- as well as supplementary- software on applicable projects.

Foundation: Drafting & Design 12: Engineering & Architecture, Design 12: Animation & Multimedia, and/or ICT 12:Computer Programming – Game Design

Electronics 12

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Electronics 12 will build on the skills and knowledge students gained in the grade 11 Electronics course. Emphasis will be placed on further developing students' design and project construction skills while exploring all aspects of the theory in more depth. This course will provide a detailed look at digital and analog electronics and basic micro-controller computer programming. Projects are geared to student interest, with the opportunity to delve deeper into electronics areas of particular relevance to personal/career interests.

Foundation: Electronics 11

Metalwork 11

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course introduces a variety of metal cutting, forming and fastening processes. Students are assigned design problems and instructed to construct projects using the above methods. In addition to machining and welding techniques, metal art design and jewellery casting are introduced. Safe work habits and good employability skills are stressed and practiced throughout the course.

Open to: Open to students in grades 10, 11 and 12.

Metalwork 12

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This single block course is for students with previous metalworking experience. Through individual project work, students will gain skills and experience in advanced metal working processes. Safe work habits and good employability skills are stressed and practiced throughout the course.

Foundation: Metal Fabrication & Machining 11.

Metal Fabrication and Machining 12: Adv. Fabrication Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is combined with Metal Fabrication & Machining 12 to form a double block, 8-credit course. Students have the opportunity to undertake major projects of their own choice and to continue to develop skills in welding, machining and fabrication. They are prepared with valuable skills related to a number of trades including sheet metal, machinist, millwright, fabricator and welder. Students who would like to experience a trade can take the Career Development Program.

Foundation: Metal Fabrication & Machining 12.

Metal Fabrication and Machining 12: Welding Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course introduces a variety of welding processes and related safety. Basic skills in oxy-acetylene torch work, arc welding, metallurgy and fabrication methods are introduced. This is a valuable course for students going into any trade or related work. Practicing good employability skills is an important component of the course.

Open to: Open to students in grades 11 and 12.

Metal Fabrication and Machining 12: Art Metal & Jewellery Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course explores a series of creative metal sculpture and jewellery experiences. Students design and construct works of art from a variety of metals through fabrication, machining, forming and casting processes.

Power Technology 9Grade 9 ☒ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

Power Technology 9 will provide students with an introduction to energy, mechanical devices, and motion. An emphasis on practical hands-on experience will prepare students to move on to more advanced technical or mechanical courses. Students will be instructed on safe procedures to be employed in a shop situation and will gain valuable experience with a variety of tools and equipment. Power Tech students will have the opportunity to work on a wide range of projects involving working models, small engines, and transportation devices. Students who have completed Power Technology 9 will be permitted to enroll in either Technology 11 or Automotive Maintenance 11 in their grade 10 year.

Science & Technology 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will take a unique approach to science, looking at the practical applications of scientific principles and evaluating the positive and negative effects of technology on our society and the environment. Advances in various areas such as communications, energy and resources, health, transportation, and manufacturing will be investigated. Problem solving will be emphasized, and evaluation will be based on a combination of classroom and project work. This course will fulfill the Science 11 requirement for graduation but not for university entrance.

Technology 9: Electronics/Power and EnergyGrade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

Electronics - Students enrolled in this course will learn about electronics for one half of a semester and power and energy technology for the other half. The electronics section introduces the fundamentals of electricity and the tools, parts, and processes used to design and fabricate basic electronics projects. **Power & Energy Technology** - In the power and energy section, students will investigate many different physics principles in fun and interesting ways. A variety of wood, metal, and plastic fabrication skills will be utilized to produce individual and group projects, which will be tested and competed.

Technology 9: Metal/Wood

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

Students enrolled in this course will learn about metalworking for one half of the semester and woodworking for the other half. The metal section of this course includes various metal cutting and forming techniques with an introduction to oxy-acetylene welding as a fastening method. Students will develop their designing and creative abilities in a fun, hands-on environment with two mini-competitions. In the woodworking half of the course students will be taught how to use a variety of power tools and equipment that are unique to a woodshop. Students can expect to work hands-on as we focus on making project parts by planing, sawing, drilling, and shaping. We will also explore methods of assembling a project and finishing them in a professional manner. In both halves of the course students are encouraged to take on additional projects of choice to further their learning experience. No previous experience necessary.

Technology 11A

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Technology 11A combines the practical applications of science with technical challenge projects covering a wide range of interests. Technology 11A will be the continuation of the "Odyssey of the Mind" type projects found in Power Technology 9/10. Students will be involved in designing, building, and testing projects such as simple robotics, one-person boats, and hydraulics. This course stresses safety in a shop setting and co-operative learning to develop solutions to real life problems. Students will develop the skills necessary to evaluate possible solutions using models, simulations, and prototypes.

Foundation: Power Technology 9 for grade 10 students; no foundation course for grade 11 and 12 students.

Technology 12A

Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This course allows students to develop an awareness of introductory engineering principles and problem solving methods. Technology 12 is a combination of theoretical and practical work, which will provide students an opportunity to pursue many activities involving a wide variety of materials and processes. The goal of this course is to have students develop detailed understanding of materials, processes, systems, and information gathering. Some possible topics covered will include rockets, hovercraft, and projectiles. Individual and group problem solving will be emphasized as well as safety in a shop setting.

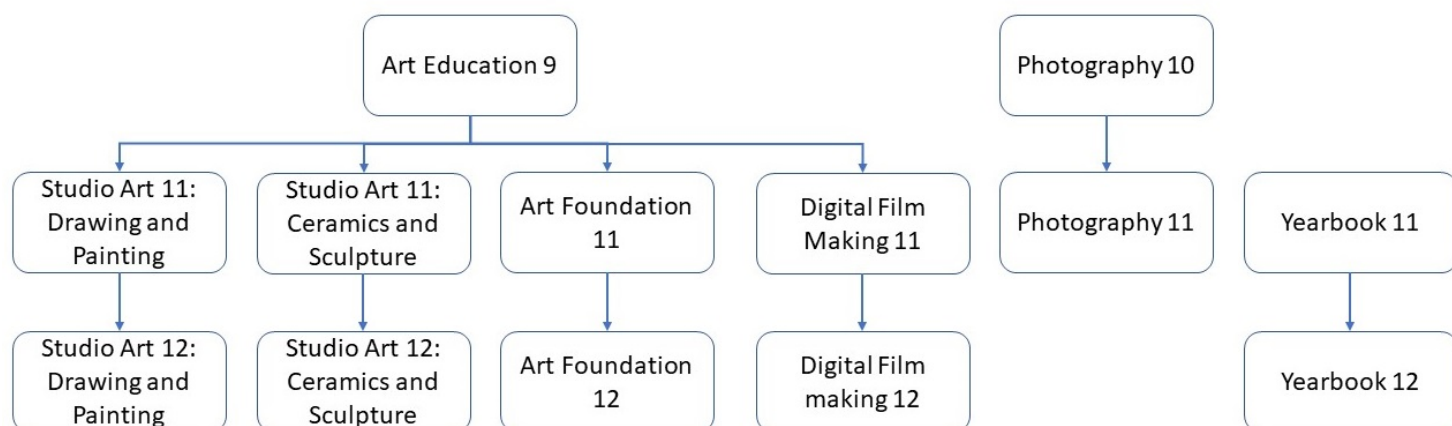
Foundation: Technology 11A or Science & Technology 11.

AUTOMOTIVE SERVICE TECHNICIAN - LEVEL I APPRENTICESHIPGrade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This post-secondary program is part of the Industry Training Authority ACE-IT initiative, and is open to grade 12 students intending to pursue a career as a Red Seal Certified Automotive Technician. Students completing this full semester, dual credit, four course program, will receive 16 credits toward graduation and write the Standardized Level I assessment exam. A 70% grade on this exam will qualify the student to progress to Level II training, when requirements for Apprenticeship training hours are met. Work-based training will be an integral part of this program, and must be completed by September 30, after classes are completed in June. This program is designed for motivated students with a career focus, and provides excellent Apprenticeship placement advantages for successful students. - Enrollment in this program will be limited to 18 students per year, and admission will be granted through an application process which includes an interview and a review of attendance records, and will require a recommendation from the student's Automotive Technology 12 instructor. Applicants will need to have been programmed in such a way as to have completed all foundation requirements by the end of the first semester of their grade 12 year. - Foundation: Completion of both Auto Technology 11 and 12 with a minimum C+; English 12 or Communications 12 (taken no later than first semester of grade 12); Apprenticeship & Workplace Math 11 with a minimum B or completion of Foundations OR Pre-Calculus Math 11; Physics 11 recommended. Students should have a working knowledge of computers and an "L" driver's license.

Foundation: Completion of both Auto Technology 11 and 12 with a minimum C+; English 12 or Communications 12 (taken no later than first semester of grade 12); Apprenticeship & Workplace Math 11 with a minimum B or completion of Foundations OR Pre-Calculus Math 11;

VISUAL ARTS COURSES



Art Education 9

Grade 9 ☒ Grade 10 ☐ Grade 11 ☐ Grade 12 ☐

Art 9 is an introductory art course which offers a range of media exploration for students interested in developing their visual art skills. The main focus is on learning to see, visual literacy, and expanding students' vocabulary of art concepts. Students are taught the basic elements and principles of design, which are reinforced with class projects and discussions. Projects primarily include drawing, painting, ceramics and sculpture. Students should finish Art 9 with a good idea of their own creative potential and feel ready to approach more specialized senior level art courses.

Art Foundations 11

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Art 11 is an introductory studio art course which gives students a chance to explore many two-dimensional and three-dimensional approaches to visual art expression. Students work on projects in the main areas of drawing, painting, printmaking, ceramics, and sculpture. Assignments are structured around the elements/principles of design, image development strategies, or art historical influences, but students are encouraged to develop their own personal style. Students should complete the course with an expanded understanding of historical and contemporary developments in art and a strong sense of their own art abilities and preferences.

Open to: Open to students in grade 10, 11 and 12.

Art Foundations 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

Art 12 is a senior level studio art course which allows students to further develop their artistic practice and pursue personal artistic expression in more depth. Projects follow the same expression areas as those in Art 11, (drawing, painting, printmaking and ceramics/sculpture), but students are encouraged to find their own particular medium of expression and work more intensely on self-directed projects. Students taking Art 12 are usually be expected to be interested in a career within the field of art, but many simply enjoy the chance to further enhance their visual literacy and understanding of studio art practices. Help will be offered to those students who are preparing a portfolio for post-secondary Art applications.

Foundation: Art Foundations 11

Digital Film Making 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course serves as an excellent introduction to the world of making movies. Through examining what makes a great movie, the effects of media on our psyche, and the completion of several assignments, students will gain skills in visual storytelling, script writing, story boarding, effective camera use, and computer based audio/video editing. A minimum of four movies will be shot and edited by each student. This course requires self-motivated students with the ability to work alone and in groups. Software to be learned and used will include Adobe Premiere Pro, After Effects as well as others.

Open to: Open to students in grade 10, 11 and 12.

Digital Film Making 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is designed to provide advanced opportunities for the filmmaker to further develop and enhance the skills introduced in Digital Film Making 11. Students will work in a number of different genres with an eye towards entering their best piece in Student Film Festivals (not mandatory). A 3rd year IDS is possible after the 11 & 12 courses, if a student has advanced project ideas.

Foundation: Digital Film Making 11, or by permission of the teacher.

Open to: Open to students in grades 11 and 12.

Photography 10Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course will provide students with opportunities to explore two dimensional graphic art and photographic processes. This is an introductory course that is designed to meet the needs of students who have little or no art background. Students will gain an understanding of how the elements and principles of design can be used to communicate moods, feelings and attitudes through a range of media. The course will focus on personal image development through a variety photographic techniques. Students will use the camera as an artistic tool for recording images and learn about different types of cameras and their operation. Students will develop an understanding of the evolution of the camera and the history of photography as an art form.

Foundation: Open to students in all grades.

Photography 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This project based course will build on the artistic and technical skills developed in Photography 10. Students will deepen their ability to use elements and principles of design to create images to communicate moods, feelings, attitudes and information. Students will have an opportunity to work with digital SLR cameras, a standard kit lens and explore other specialty lenses in Photography 11. Students will learn new photographic techniques for use in everyday life to capture interesting and artistic photograph and they will develop their Photoshop skills to allow for greater editing of their own images. While this course is open to all grade 11 and 12 students, it is recommended that Photography 10 be taken before Photography 11.

Studio Art 11: Ceramics & SculptureGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

An introductory three-dimensional art course with a strong focus on clay, the basics of hand building, and wheel-throwing form two thirds of the curriculum in Ceramics 11. Students make and glaze both functional and sculptural pieces. Concepts such as line, texture, volume, mass, plane, and balance are key to an understanding of three-dimensional media. Other three-dimensional media which may be explored are papier-mâché, wire, plaster, or assemblage. There is a strong expectation that students participate in studio management, kiln loading, art work displays, and daily clean-up. Students should be prepared to delay taking projects home to allow for ongoing displays throughout the school. No previous experience in ceramics or sculpture is needed.

Open to: Open to students in grade 10, 11 or 12.

Studio Art 12: Ceramics & SculptureGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is a senior level three-dimensional art course which suits skilled students who wish to develop a personal approach to clay and other media. It is strongly recommended that students have previous experience in clay before signing up for this course. Completion of Ceramics 11 with a C+ or better is a good foundation for Ceramics 12. The projects are more difficult than those assigned in Ceramics 11, and the instructor will expect students to be able to work very independently. Both hand building and wheel throwing with porcelain is explored, and there is a research project assigned which allows students to explore in depth a topic related to three-dimensional art.

Foundation: Studio Art 11: Ceramics & Sculpture.

Open to: Open to students in grade 11 or 12.

Studio Art 11: Drawing & PaintingGrade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Drawing and Painting 11 is a studio art course with a focus on two-dimensional media approaches, such as pencil, pen and ink, charcoal, pastel, and watercolour on paper or acrylic, and mixed media on board or canvas. This is an important course for students interested in possible art careers or developing a portfolio. Lessons are structured sequentially on the elements of design, such as line, tone, colour, shape, form and texture, and developed to allow the student to learn image development strategies such as observation, elaboration, magnification, simplification and fragmentation. There is a sketchbook component which is mostly homework. Both traditional and experimental approaches are modelled and encouraged, with frequent exposure to historical and contemporary aspects of art making.

Studio Art 12: Drawing & PaintingGrade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course follows closely the structure of the Drawing and Painting 11 course, but offers motivated students more challenges and freedom to pursue and develop their own ideas and styles in two-dimensional media. It is possible for a student to design their own approaches to projects, or to work more independently, particularly with respect to portfolio development. Students are encouraged to work on larger or more complex projects, and may be interested in pursuing art at the post-secondary level. For this reason, they are encouraged to take part in District initiatives such as the "Emerging Talent" exhibition in January each year, or the Coquitlam Center show in May each year.

Foundation: Studio Art 11: Drawing & Painting

Yearbook 11Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This is a "hands-on" course for students interested in learning about printing and publishing. The curriculum includes the exploration of digital photography, photo editing, design and layout, writing, and editing. Students will be a part of the team that produces the yearbook. They will document, in photography and print, the people and events of the school year. This course needs creative, committed, reliable students capable of working both independently and in small teams, with print deadlines always in mind. Although no foundation course is required, previous courses in photography, ICT, and creative writing will make you an invaluable asset to the yearbook team.

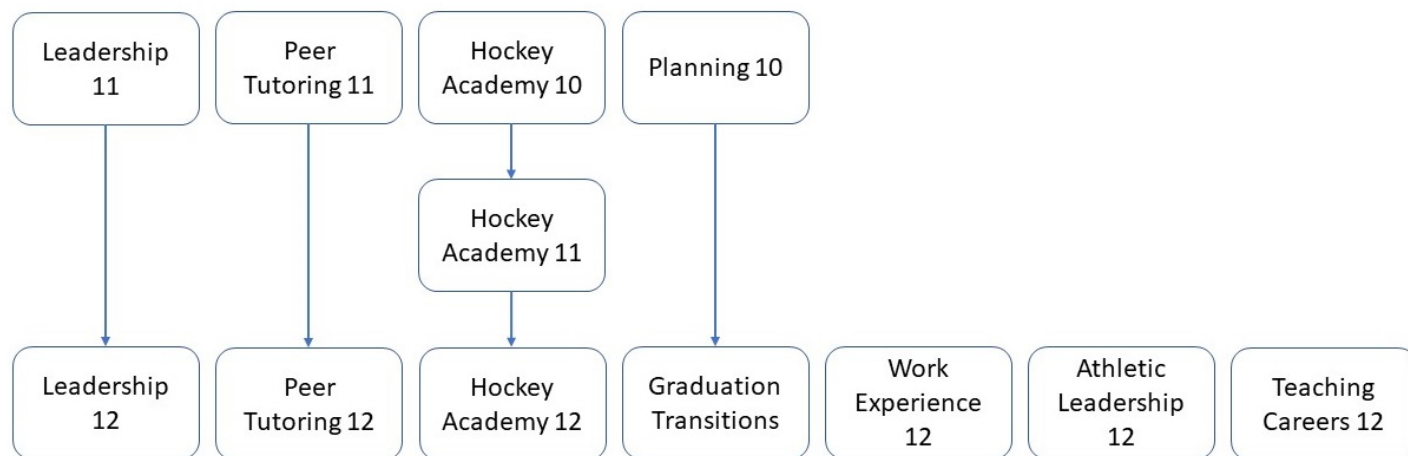
Open to: Open to students in grades 10, 11 and 12.

Yearbook 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This course is designed for students who were in Yearbook 11 and would like to take on a leadership role with this project. Yearbook 12 students will be part of the team that produces the yearbook; however, they will be more involved in organizing the book for the year, designing the style of the book, managing student portraits, mentoring Yearbook 11 students, performing editor tasks, and finalizing pages for publication. Yearbook 12 students will also continue to explore photo editing, design and layout, writing and editing. This course needs creative, committed, reliable students capable of working both independently and in small teams, with print deadlines always in mind.

Foundation: Yearbook 11

MISCELLANEOUS COURSES



Athletic Leadership 12

Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This course is designed to give students the opportunity to develop their individual and collective sense of social responsibility through the acquisition and application of leadership skills in athletics. This course is designed to develop students' knowledge and skills in leadership, event management, coaching and instruction, as well as officiating. Students will discover the benefits of giving back to their school, community and sport. Students will recognize specific rules enforced by tournament managers, referees and learn strategies implemented by coaches in a variety of sports. Entrance to this course will be based on an interview process that will start in February 2018.

Hockey Academy – Hockey Skills 10

Grade 9 ☒ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

This introductory course is open to all first-time Hockey Academy students in grades 9-12. The Centennial Hockey Academy provides the opportunity for male and female hockey players to supplement their minor hockey experience by improving their hockey skills and fitness levels. Course content includes the development of technical skills (power skating included), individual tactics, team tactics, team play, systems, strategy, off-ice training specific to hockey, health, and wellness. Other Academy components include sport psychology, fundraising, volunteering opportunities, as well as group activities such as rock climbing, hiking, yoga, and on-ice tournaments.

Hockey Academy – Hockey Skills 11

Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

The Hockey Academy Skills 11 course is designed for all first-year returning Hockey Academy students. This course builds upon the skills developed in Hockey Skills 10. Like Hockey Skills 10, students at all skill levels will be provided with coaching appropriate to their development. Other Academy components include sport psychology, fundraising, volunteering opportunities, as well as group activities such as rock-climbing, hiking, yoga, and on-ice tournaments. Students will be required to have previous skating experience and preferably some hockey skills.

Foundation: Hockey Skills 10

Hockey Academy – Hockey Skills 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

The Hockey Academy Skills 12 course builds upon the skills developed in Hockey Skills 10 and 11. Like Hockey Skills 10 and 11, students at all levels will be provided with coaching appropriate to their development. Course content includes the continued development of technical skills (power skating included), individual tactics, team tactics, team play/systems, strategy, off-ice training specific to hockey and health and wellness, volunteerism, introduction to coaching and hockey leadership. An option in this course is for students to develop a hockey resume to send out to post-secondary institutions. Students will be required to have previous skating experience and preferably some hockey skills.

Foundation: Hockey Skills 10 and Hockey Skills 11

Leadership 11/12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

The Leadership 11/12 course is designed to provide students with multiple leadership opportunities. Through these different opportunities students will learn the intricacies of leadership and develop the confidence to lead others. The practical component allows students to acquire leadership skills by getting involved in school and community events. Students will also learn to work effectively in teams with peers of diverse backgrounds and attitudes. Students will focus on teamwork skills, communication, goal setting and planning, and conflict resolution. This leadership experience will help students to understand the positive impact and value they can have on their school and community. Note: This class runs outside the regular schedule. Student will be required to meet before school a minimum of one day a week for the entire year. Students will be accepted into this course through an application process.

Peer Tutoring 11/12Grade 9 ☐ Grade 10 ☐ Grade 11 ☐ Grade 12 ☒

This program offers selected, well-motivated students the opportunity to gain course credits by training and serving as peer tutors. Peer Tutors must possess excellent academic standing or ability in the subject area that they peer tutor in, obtain a referral from two Centennial Staff members (teacher /counsellor/administration), and may need to interview with a designated panel. By the end of the Peer Tutoring course, a student will have gained a wide variety of knowledge and skills related to teaching and learning. A student will have a basic understanding of Learning Disabilities, and other factors which impact on student learning and achievement. It allows students to investigate their interests in working with people, especially if they are interested in pursuing a career in the human services realm (teaching, medical & health fields etc.). They will understand the purpose and need for effective communication skills, the variety of teaching and learning styles that people have, and the effectiveness of teaching others, while working toward developing a greater competence with curricula. They will have a greater understanding of the complexity of the teaching-learning process, and the importance of the human relationship in that process. Most importantly, they will gain a greater empathy and respect for their peers who find school to be very challenging. The experiences in the course allow the student to develop an aspect of their own personality, such as learning to be more assertive, or more patient. In this way, the course allows the student to explore and improve their own learning styles, their own academic strengths and weaknesses, and their own emotional maturation.

Career Life Education 10Grade 9 ☐ Grade 10 ☒ Grade 11 ☐ Grade 12 ☐

The aim of this mandatory course is to enable students to develop the skills they need to become self-directed individuals who set goals, make thoughtful decisions, and take responsibility for pursuing their goals throughout life. Students will explore a wide range of career and post-secondary education options, think critically about health issues and decisions, and develop financial literacy skills.

Teaching Careers 12Grade 9 ☐ Grade 10 ☒ Grade 11 ☒ Grade 12 ☒

Do you have plans to be a teacher or want to learn some new techniques to work with kids? This course explores the field of education and introduces you to some of the tools and techniques of teaching. Learn about teaching styles, multiple intelligence, brain-based education, instructional strategies and effective classroom management. Participate in activities that make learning fun. Take advantage of the opportunity to work in a classroom and gain valuable volunteer experience. Come and learn how you can make a difference in a child's life. Note: Offered every second year, this course is available in the 2017/18 school year.

Open to: Open to students in grades 11 and 12 only.

Work Experience 12Grade 9 ☐ Grade 10 ☐ Grade 11 ☒ Grade 12 ☒

This practical hands-on course is designed to help prepare students for the transition from secondary school to the world of work or further education and training. It provides them with the opportunity to gain knowledge, skills and attributes needed to be successful in the workplace or develop job readiness skills for specific occupations and careers. Students will be required to complete a 30 hour Employability Skills classroom component before they are placed in 90 hours of volunteer work experience related to their job or career interests. This course is an integral part of Work Experience and Apprenticeship programs (see page 4-7 of this book). This course is open to grade 11 and 12 students. Parental/Guardian approval is required.

Open to: Grade 11 and 12 students