



2017/2018

D.P. TODD SECONDARY SCHOOL COURSE PLANNING GUIDE

Selection of programs and courses is based on enrolment and resources.

**CONSULTING YOUR SCHOOL COUNSELLOR IS ESSENTIAL
FOR PLANNING YOUR COURSE WORK.**

Completing recommended prerequisites for courses has been found to greatly enhance the likelihood of success. The knowledge and skills covered in the recommended prerequisites are used as a basis for new learning.

IT IS THE RESPONSIBILITY OF EACH STUDENT TO ENSURE THAT HE OR SHE COMPLETES THE APPROPRIATE COURSES FOR GRADUATION AND POST SECONDARY STUDY.

Students and parents are advised to study the REQUIREMENTS FOR GRADUATION and RELEVANT POST-SECONDARY GUIDES at www.achievebc.ca/ or www.bced.gov.bc.ca/graduation/

Admission requirements and other information about post-secondary training often change and are best checked with the institutions themselves to get the latest and most accurate details.

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WHAT YOU NEED TO GRADUATE

Starting at Grade 10, you have a lot of choice about what you learn. But, in order to graduate with a Dogwood, every student in the Graduation Program has to pass certain basic courses, like English, Math and Science. The table below gives an overview of what you need to graduate:

- 48 credits from required courses
- 28 credits from elective courses
- 4 credits from your Graduation Transitions

Preparing now will help ensure you get the credits you need to achieve your goals. Graduation requirements are introduced in Planning 10. For more help, talk to your teacher or school counsellor.

REQUIRED COURSES	
SUBJECT AREA	Minimum Credits
English Language Arts 10	4
a Language Arts 11	4
a Language Arts 12	4
Social Studies 10	4
Social Studies 11 or BC First Nations or Civic Studies 11	4
Science 10	4
a Science 11 or 12	4
a Mathematics 10	4
a Mathematics 11 or 12	4
Physical Education 10	4
Planning 10	4
a Fine Arts and/or Applied Skills 10, 11 or 12	4
Total	48 credits
ELECTIVE COURSES	
Students must earn at least 28 Elective credits for Grade 10-12 courses.	28 credits
GRADUATION TRANSITIONS	
Students must earn 4 credits for Graduation Transitions.	4 credits
OVERALL TOTAL	80 credits
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.	

GRADUATION TRANSITIONS

Background

All BC secondary school students who are enrolled in Grade 10, 11 or 12 as of September 1, 2007, and beyond must demonstrate they have met the following requirements for:

- Personal Health - at least 150 minutes per week of moderate to vigorous physical activity in each of Grades 10, 11, and 12.
- Community Connections - participate in at least 30 hours of work experience and/or community service and describe what was learned.
- Career and Life - complete a transition plan and present significant accomplishments.

Students at D.P. Todd must complete a Graduation Transitions booklet in their grade 12 year.

For more information, see your school counselor or visit <http://www.bced.gov.bc.ca/graduation/grad-transitions/>

PROVINCIAL EXAMS AND ASSESSMENTS

The new Grade 10-12 curriculum is available in draft for use and feedback in the 2016-2017 and the 2017-2018 school years. Current Grade 10 and 11 provincial exams do not align with the new curriculum that teachers may be using. However, current Grade 10/11 provincial exams will continue to be available until June 2017 for students who have completed associated course work by June 30, 2016.

Students do not take the new exams if they took the “old” course (or completed the courses before the 2016/17 school year.)

The expectation is that students complete EITHER a Math 10 provincial exam OR the new numeracy exam, and EITHER a Language Arts 12 provincial exam OR the literacy exam, based on when they took the courses.

Science 10, Social Studies 11 and Language Arts 10 (and their equivalent) provincial exams will not be replaced with another form of provincial assessment. These courses will now be assessed in the classroom, as happens for other courses. The Ministry is working to provide support materials for curriculum and classroom assessment.

Other Specifics:

- Math 10 exams will be replaced with a new numeracy exam
- The Language Arts 12 group of exams (EN 12, EFP 12, COM 12) will not be replaced until after the new curriculum is implemented in 2018/19 and the new provincial Literacy exam is implemented. The Language Arts 12 group of provincial exams will remain in place as is, and will continue to be 40% of the final course mark for LA 12. This is also the case for French Immersion and Programme Francophone.
- The new numeracy exam will be implemented 2017/2018 school year.
- The new literacy exam will be implemented in 2018/19 school year, along with the new 10-12 curriculum.

EXTERNAL CREDIT TOWARDS GRADUATION

An external credential is one that has been developed outside the Ministry and is earned by students either:

- outside the regular classroom setting (e.g., BC Conservatory of Music courses); or
- in the regular classroom setting (e.g. IB and AP courses).

Note: External credentials in the 2004 Graduation Program may meet Required Courses or Elective Requirements as specified. External credentials may also count toward credit for the Adult Graduation Diploma, provided they are 4-credit courses.

Questions Concerning External Credentials

1. See a Counselor.
2. Questions may be directed to: External Credentials and Assessment Achievement and Assessment Department - 250-356-9386

Or

Policy Website: www.bced.gov.bc.ca/policy/policies/earning_credit_through.htm

No marks are given for these courses, only credits.

2004 and 2018 Graduation Programs

2004 Graduation Program (Phased out in 2017-18)	New Graduation Program (Fully Implemented in 2018-19)
Planning 10 (4 credits) Grad Transitions 10 (4 credits)	Two Career Education courses (total 8 credits)
Physical Education 10 (4 credits)	Physical Health and Education 10 (4 credits)
Science 10 (4 credits) ONE OF: Physics 11 or 12, Earth Science 11, Biology 11 or 12, Science and Technology 11, Chemistry 11 or 12 (4 credits)	Science 10 (4), and a Science 11 or 12 (4 credits) https://curriculum.gov.bc.ca/curriculum/science/whats-new
Social 10 (4 credits) Socials 11 or BCFN 12 or Civic Studies 11 (4 credits)	Social Studies 10 (4 credits), and a Social Studies 11 or 12 (4 credits) https://curriculum.gov.bc.ca/curriculum/social-studies/whats- new
AWM 10 or FOM 10 (4 credits) ONE OF: Mathematics 11 or 12 (4 credits) <ul style="list-style-type: none"> • Apprenticeship & Workplace Math 11 or 12 • Foundations of Math 11 or 12 • Pre-calculus 11 or 12 	A Math 10 (4 credits), and a Math 11 or 12 (4 credits) https://curriculum.gov.bc.ca/curriculum/mathematics/whats- new
English 10 (4 credits) English or Communications 11 (4 credits) English or Communications 12 (4 credits)	A Language Arts 10, 11 & 12 (12 credits) https://curriculum.gov.bc.ca/curriculum/english-language- arts/whats-new
Fine Arts and / or Applied Skills 10, 11 or 12 (4 credits)	An Arts Education 10, 11, or 12 and/or an Applied Design, Skills, and Technologies 10, 11, or 12 (4 credits)
80 credits needed for graduation, at least 16 must be at the Grade 12 level and 28 electives credits.	80 credits total, with a minimum of 16 at the grade 12 level, Language Arts 12 provincial exam in 2017 -18 (literacy and numeracy assessment in 2018-19), and 28 elective course credits.

2017/18 is a transition year. Courses from the 2004 program will fully count towards the 2018 program.

Grad Planning Worksheet

Student Name: _____ Student Number: _____

COURSE SELECTION WORKSHEET GRADE 10, 11 & 12

Grade 10	Grade 11	Grade 12
<u>Required Courses</u>	<u>Required Courses</u>	<u>Required Courses</u>
English 10** _____ (4)	English 11 or Communications 11 _____ (4)	English 12 or Communications 12** _____ (4)
Social Studies 10 _____ (4)	a Social Studies 11** _____ (4)	Grad Transitions (4)
a Mathematics 10** Course: _____ (4)	a Mathematics 11 Course _____ (4)	<u>Elective Courses *</u> 12 credits must be Grade 12 Level
Planning 10 _____ (4)	a Science 11 Course _____ (4)	Elective _____ (4)
Physical Education 10 _____ (4)	<u>Elective Courses *</u> Elective	_____ (4)
Science 10** _____ (4)	Elective _____ (4)	Elective _____ (4)
<u>Elective Courses *</u>	Elective _____ (4)	Can be Grade 11, or 12 courses
Elective _____ (4)	Elective _____ (4)	Elective _____ (4)
Elective _____ (4)	Elective _____ (4)	Elective _____ (4)
	* 4 credits must be a Fine Art or Applied Skill	Elective _____ (4)
		Elective _____ (4)

Total Gr.10 credits = _____

Total Gr.11 credits = _____

Total Gr.12 credits = _____

Total Credits Overall = _____

Graduation Program:

- 48 credits from required courses, of which 16 are at the grade 12 level
- 28 credits from elective courses – 4 credits from Fine Arts or Applied Skills
- Graduation Transitions – 4 credits
- Mandatory provincial exams**
- A minimum of 80 credits in grades 10 -11-12
- Students must complete a minimum of 5 graduation exams: Grade 10 Language Arts (English), Grade 10 Science, Grade 10 Mathematics, Grade 11 or 12 Social Studies, and grade 12 Language Arts (English)

Examples of course pre-requisite entrance requirements for Post-Secondary or Trades Programs

Note - Basic High School Grad Requirements: PE10, Plan 10, Ma 11, Sc. 11, SS. 11, Eng. 12, an Applied or Fine Art

	*Basic Grad	BIOLOGY	CHEMISTRY	PHYSICS	MATH	ELECT./ OTHER
BCIT Electrical Engineering	GRAD	-	Chem 11	Phys 11	Prin. 12 or Pre-Calc 12	Entry Test
CNC Automotive Technician	Apply with 10, *Gr.12 grad recommended	-	-	Phys 11 'C' mark increases selection status	Ma10 min. 'C' mark	Trades related course with 'B' or higher recommended
CNC Computer Network Electronics Technician Certificate	GRAD	-	-	-	Found 11 or Pre-Calc 11	Comp. Sc or InfoTech 11 or 12 recommended
CNC Dental Assistant	GRAD	Bi 12 with 'C' min.	-	-	-	-
CNC Dental Hygienist	GRAD	Bi.11 + Not less than 'C' in first yr. Bi.	Chem 11 + Not less than 'C' in first yr. Chem	-	Prin.12 + Pre-Calc.12	University/College first year before applying. - Note, may want to take Psych 12 to help with first year Psych.
CNC Electrical	GRAD	-	-	Phys 11 or 12	Prin. Math or Pre-Calc	Entry Test
CNC Pract. Nurse	GRAD	Bi 130 CNC	Chem 11 *Recommended	-	-	-
CNC Professional Cook	Apply with 10, *Gr.12 grad recommended	-	-	-	-	Trades related course recommended
CNC Reg. Nurse	GRAD	Bi 12 Min 'B'	Chem 11	-	-	Must also meet UNBC entrance requirements
CNC/UNBC BACHELOR OF SCIENCE	GRAD	Bi 11 or 12 *Recommended	Chem 11 + 12 *Recommended	Phys 11+ 12 *Recommended	Prin.12 + Pre-Calc.12	* Min. one Sc 11 in - upgrade others first year if not taken in high school
CTC Electrical	GRAD	-	-	Phys 11 or 12 required	Found 11 or Pre-Calc 11	Eng 11 or Comm 11 with a 'C'
CTC Millwright	Apply with 10, *Gr.12 grad recommended	-	-	Phys 11 *Recommended	Found 11 or Pre-Calc 11	Eng 12 recommended
CTC Welding	Apply with 10, *Gr.12 grad recommended	-	-	-	-	-00
Secondary Science TEACHER	GRAD	Bi 11 or 12 *For Science/Chem/ Phys Teacher	Chem 11 + 12 *For Science /Bi/Chem/Phys Teacher	Phys 11+ 12 *For Science/Bi /Chem/Phys Teacher	Prin. 12 or Pre-Calc 12 *For Math /Science/Bi/ Chem/ Phys Teacher	Any Bachelor of Science University degree

(Disclaimer: This table was created to give an idea of the D.P. Todd Sr. Courses you need to select depending on your anticipated career choice. Please do further research on your chosen post-secondary institute to confirm accuracy of information.)

OTHER PRACTICAL CAREER CONSIDERATIONS:

1. College/University/Trades entrance requirements represent the minimum. Higher level courses in high school will influence selection if minimal requirements are met by competing students.
Eg. UBC may say 76% entrance minimum but, in some high application years, may not accept below 82% in the Sciences. BC Hydro now requires Physics 11 and 12 for some of their careers.
2. Some University Grads now have to retrain in the Trades to get a job. Think about a career in the Trades.
3. A higher mark in a course or a higher level course will put you above another applicant.

“Making choices in High School may not determine what career you will like, but it will eliminate what you don’t like” - Glee, 2013

COURSE DESCRIPTORS SECTION

VISUAL ARTS

Programs in the beginner level represent the core of the Art curriculum and offer introductory work in ceramics, drawing, painting, graphics and sculpture. In the intermediate and advanced courses, the Art program branches into detailed studies of specific areas of visual expression.

ARTS EDUCATION 8 (AE 08)

In this 5-week course, students will learn drawing and sculpting skills, techniques and knowledge based on the elements and principles of design.

This class consists of:

- Building a foundation of skills and techniques in drawing, painting and sculpture
- Emphasis on imagery and individual production using a variety of media.
- Using art to explore interests, thoughts, and viewpoints.

ARTS EDUCATION 9 (AE 09)

- For students wishing to continue their general art education or to take art for the first time and thus build art foundation skills.
- Studying a minimum of five areas in ceramics, drawing, painting, computer assisted art, sculpture or fiber arts and printmaking.

VISUAL ARTS 10 - GENERAL (VAG 10)

- For students wishing to continue their general art education or to take art for the first time and thus build art foundation skills.
- Studying a minimum of five areas in ceramics, drawing, painting, computer assisted art, sculpture, printmaking or fibre arts.

ART FOUNDATIONS 11 (AF 11)

Recommended Prerequisite: Previous Art course

- Studying a wide range of 2D and 3D art processes selected from drawing, painting, ceramics, sculpture, fabric and fibre, printmaking and graphic design.
- Exploring image development and design strategies, elements and principles of design and technical development with a variety of media.
- Includes art history, criticism and possible art careers.

ART FOUNDATIONS 12 (AF 12)

Recommended Prerequisite: AF 11

- Builds upon Grade 11 content and students work at advanced levels with wide ranges of art processes.
- Emphasis on increasing levels of technical competence, sophistication, complexity and independence in the selection and use of a variety of materials and processes, along with the purposeful manipulation of the elements of design, and the development of personal imagery.
- Visual literacy will be enhanced through art criticism and the study of the relationships between context and the visual arts.
- Students will document and evaluate their own creative processes and continue to explore the range of art careers.

DIGITAL ART & GRAPHICS 11 (YVPA-1BDAG 11)

There are no prerequisites to this course, but drawing skills are a definite asset. If your drawing skills are low, a desire to work on your skills outside of course time to improve them IS IMPORTANT.

- Students will use computers, scanners, digital cameras extensively, and some video equipment, to develop their voice as an artist.
- Learning graphic design techniques and the history of graphic design as it applies to marketing strategies to better prepare students for applying image making to target audiences.
- Students will use personal photography as a basis for expanding compositional and technical skills as well as developing personal imagery.
- Students will demonstrate a working knowledge of the elements and principles of design.
- Students will become aware of and explore the diverse opportunities and possibilities for related careers through your projects and assignments, all of which will be art and job related.
- You will demonstrate a working knowledge of how to make computer assisted Fine and Graphic Art using Adobe Photoshop (industry standard software).
- Students will document and evaluate their own creative processes and continue to explore the range of art careers.

COMPUTER AND BUSINESS EDUCATION

MEDIA STUDIES 8

- During this 5-week course students will learn to use technology in a responsible, socially, ethically, and mature manner.
- This short course will introduce students to the world of media production using Word, Powerpoint, Excel, and Photo/Video editing software. Students may explore 3D modeling software, and may also create webpages using HTML code, Dreamweaver, and Flash design elements.
- Students will learn to produce projects and presentations which can be used to create or enhance other projects for other courses.
-

CAREER EDUCATION 8 (CE 08)

- Use self-assessment and reflection to develop awareness of their strengths, preferences, and skills
- Question self and others about how individual purposes and passions can support the needs of the local and global community when considering career choices
- Recognize the impact of personal public identity in the world of work
- Demonstrate respect, collaboration, and inclusivity in working with others to solve problems
- Recognize and explore diverse perspectives on how work contributes to our community and society
- Demonstrate safety skills and appreciate the importance of workplace safety
- Set and achieve realistic learning goals with perseverance and resilience
- Recognize the influence of curriculum choices and co-curricular activities on career paths
- Appreciate the value of a network of resources and mentors to assist with career exploration
- Question self and others about the role of family expectations and traditions, and of community needs in career choices
- Apply a variety of research skills to expand their knowledge of diverse career possibilities and understand career clusters
- Explore volunteer and other new learning experiences that stimulate entrepreneurial and innovative thinking
- Apply decision-making strategies to a life, work, or community problem and adjust the strategies to adapt to new situations

ADST ENTREPRENEURSHIP AND MARKETING 8 (ADEM 08)

- characteristics of entrepreneurial activity
- characteristics of social entrepreneurship in First Nations communities
- recognition of a market need and identification of target market
- development of a product or service, including its features and benefits
- forms of advertising and marketing that can influence a potential customer or buyer
- differences between consumer wants and needs
- role of money management in financing an idea or developing a product

CAREER EDUCATION 9 (CE 09)

- Use self-assessment and reflection to develop awareness of their strengths, preferences, and skills
- Question self and others about how individual purposes and passions can support the needs of the local and global community when considering career choices
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- Apply decision-making strategies to a life, work, or community problem and adjust the strategies to adapt to new situations

ADST ENTREPRENEURSHIP AND MARKETING 9 (ADEM 09)

- risks and benefits of entrepreneurship
- the role of social entrepreneurship in First Nations communities
- ways of decreasing production costs through training and technological advancement
- flow of goods and services from producers to consumers
- identification of a good or service that ensures brand recognition
- marketing strategies using the 4 Ps: product, price, promotion, and placement
- market segmentation by demographic, geographic, psychographic, and purchasing pattern
- evolving consumer needs and wants
- role of online technologies in expanding access to goods and services
- sources of financing for a new venture or start-up business
- measurement of financial success and failure

BUSINESS EDUCATION 10: BUSINESS COMMUNICATIONS (MBEC 10)

- Business communications 10 is an elective to allow students to use computers to learn about word processing, spreadsheets, data bases, presentation software and desk top publishing to create theoretical or real businesses. This includes working in teams to plan and problem solve with more computer skills to be prepared to enter the workforce, especially business.
- The course includes gaining keyboarding skills, knowledge of other software, analyzing legal, ethical and practical components in business, and working in teams to create real or theoretical business projects

INFORMATION & COMMUNICATIONS TECHNOLOGIES 9 (ADIT 09)

- To participate and make informed decisions in today's world, a global citizen requires technological and information literacy skills that include the ability to gather, process, and manipulate data. These skills are now as essential as traditional numeracy and literacy.
- The challenge for students ... is to develop an understanding of the fundamentals of information literacy and the tools required to prepare for, and participate in, an evolving information-based society. Students need to have a firm grounding in information technology for their careers, for lifelong learning, and for recreation. The Information Technology curriculum provides students with the analytical, interpersonal, and technical skills they require to be active participants in an exciting and dynamic world.
- Computers are used in all upper level courses for data gathering, analysis, reporting and situation modeling. Becoming fluent with computers and applications in junior grades means students will need to learn less later on, work faster and produce better results on projects involving computers such as presentations, labs, essays and multimedia podcasts.

INFORMATION TECHNOLOGY 10 (INT 10)

- Continued work with a variety of application programs. Introduction to a variety of application programs, internet research techniques, multimedia and file management.

ENGLISH and the LANGUAGE ARTS

The English/Language Arts curriculum allows students to experience the full range of language in its various forms and contexts, while building capacity to:

- Effectively **comprehend** and **respond** to language;
- **Communicate** with precision, clarity and artistry to achieve specific goals;
- **Interact** effectively with others to enhance successful learning for productive, satisfying lives.

ENGLISH 8 (EN 08)

- Integrates language skills in reading, writing, listening and speaking. Media literacy is also studied.

ENGLISH 9 (EN 09)

- Skill development progresses as students practice multi-paragraph compositions and persuasive writing for specific audiences.
- A variety of literature and media is studied.

ENGLISH 10 (EN 10)

- Skills of reading, writing, speaking and media literacy are extended and developed.
- This course has a Provincial final exam.

ENGLISH 11 (EN 11)

- Increasingly sophisticated activities and materials used for critical study and literary appreciation of novels, short stories, drama and media.
- Essay writing, ongoing vocabulary development, oral presentations, and class discussions are integral to the course.
- A recommended prerequisite for English 12.

Note: students may also receive credit for English 11 and Geography 12 by enrolling in the Language and Landscape program (See following page)

COMMUNICATIONS 11 (COM 11)

Recommended Prerequisite: Recommendation from grade 10 or 11 teacher

- Focus on practical communication skills.
- Leads to Communications 12.

COMMUNICATIONS 12 (COM 12)

Recommended Prerequisite: Recommendation from grade 10 or 11 teacher

- Further focus on practical communication skills.
- This course has a provincial final exam.

ENGLISH 12 (EN 12)

- Refining language skills to develop the ability to form well-reasoned judgments, clearly expressed in both written and oral forms.
- Critical analysis of a wide range of genres and authors.
- This course has a provincial final exam.

ENGLISH 12 FIRST PEOPLES (EFP 12)

- EFP 12 is an alternative to English 12, providing students with an opportunity to engage in indigenous creative expression and enter the world of the First Peoples through literature as well as art.
- The course focuses on the experiences, values, beliefs, and lived realities of First Peoples as evidenced in various forms of text—including oral story, speech, poetry, dramatic work, dance, song, film, and prose (fiction and non-fiction).
- English 12 First Peoples is the academic equivalent of English 12. It may be taken instead of, **or** in addition to English 12.
- EFP 12 has a required provincial exam worth 40% of the overall mark.
- The graduation requirements remain the same for units such as grammar and writing, but EFP 12 has replaced select units, like novel studies and poetry, with authentic aboriginal text.

HOME ECONOMICS

As with most other subjects, these courses begin with general or survey courses and become increasingly specialized and demanding in subsequent grades.

FOOD STUDIES 8 (ADFS 08)

- Introductory course with basic study of **Foods and Nutrition**.
- Nutrition, safe food preparation and cooking techniques.

TEXTILES 8 (ADT 08)

- Sewing skills and their practice in making projects

FOOD STUDIES 9 (ADFS 09)

- Application and extension of knowledge and skills enabling preparation and presentation of tasty, attractive and nutritious foods in a cost and time-effective manner.
- Extensive hands-on work with practical projects.
- Kitchen and food safety is also a major component.

TEXTILES 9 (ADT 09)

Requirements: Students supply own materials

- Application and extension of knowledge and skills relating to clothing construction and selection.
- Extensive work with hands-on practical projects.
- All work is expected to be completed at school.

FOOD AND NUTRITION 10 (FDN-10)

- Advanced application and extension of knowledge and skills relating to the preparation and presentation of tasty, attractive and nutritious food in a cost and time-effective manner.
- Extensive hands-on work with practical projects.
- Kitchen and food safety is also a major component.

TEXTILES 10 (TXT-10)

Requirements: Students supply own materials

- Advanced application and extension of knowledge and skills relating to clothing construction and selection.
- Extensive work with hands-on and practical projects.
- All work is expected to be completed at school.

FAMILY STUDIES 11/12 (FM 11, FM 12)

- Sequential courses providing students with knowledge, skills and attitudes necessary to make informed decisions related to adolescence, adulthood, relationships, parenting and living environments in Canada and across the world.
- This course will give you an insight on how to manage daily life responsibilities more purposefully and effectively by combining theoretical knowledge with practical every day issues.
- Units include: Adolescence, Adulthood, Child Development and Planning, Families in Society, Housing and Living Environments, and Interpersonal and Family Relationships.

FOOD AND NUTRITION 11/12 (FDN 11, FDN 12)

- Food Safety and Sanitation Practice.
- Sequential courses extending both knowledge and practical experience with a variety of culinary techniques and styles, from basic to gourmet and from traditional western to foreign cuisines.
- Applying the principles of nutrition in meal planning.

TEXTILES 11/12 (TXT 11, TXT 12)

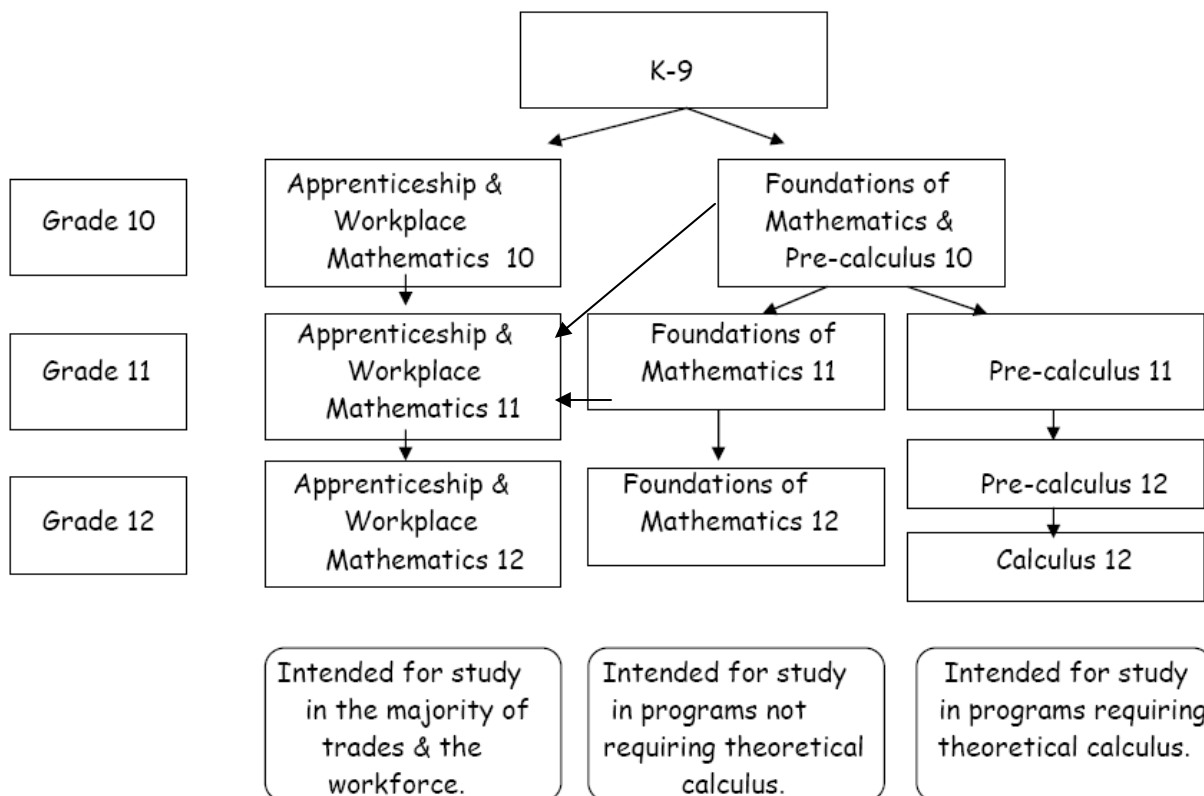
Requirements: Students supply own materials

- Sequential courses extending both knowledge and practical experience with selection, design and construction of clothing and other projects.
- Extensive work with hands-on and practical projects.
- All work is expected to be completed at school.
- Must have completed Textiles 11 before enrolling in Textiles 12.

MATHEMATICS

In grades 8 and 9, a sequential mathematics program is offered. In grade 10 there are two different math pathways, in grades 11 & 12 there are three different math pathways. To meet Grad Program requirements, a student must complete one of these pathways up to and including the grade 11 level.

MATHEMATICS PATHWAYS



Each pathway is designed to provide students with the mathematical understandings, rigor and vital-thinking skills that have been identified for specific post-secondary programs of study and for direct entry into the work force. The content of each pathway has been based on the *Western and Northern Canadian Protocol (WNCP)* which governs curriculum in the Western Provinces and Northern Territories. There are three pathways of courses to consider.

Apprenticeship and Workplace Mathematics (Courses at grade 10, 11, and 12)

This pathway is specifically 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.

Foundations of Mathematics (Courses at grade 10, 11 and 12)

This pathway 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 like Economics, Geography, Arts or Humanities.

Most students will choose this pathway.

MATH 8 (MA 08)

- This course covers topics including graphing, data analysis, probability, algebra, number operations and measurement. Topics are taught and covered using problem solving.

MATH 9 CORE (MA 09 COR)

- This course is designed for students who struggle in mathematics and cannot seem to keep up with the pace of a Mathematics 9 class. Entrance into the course should be based on performance in grade 8 Math and teacher recommendation. Success in this course leads students directly into Apprenticeship & Workplace Math 10.

MATH 9 (MA 09)

Prerequisite: MA 08

- An extension of Math 8 topics, including equations and variables, problem solving, number operations, patterns and relations, space and shape (both 2D and 3D), data analysis.

APPRENTICESHIP & WORKPLACE MATH 10 (AWM 10)

Prerequisite: MA 09 or MA 09 COR

- This course leads to Apprenticeship & Workplace Math 11.
- Topics include: problem solving, finance, rate, ratio and proportion, trigonometry, and geometry.
- This course has a provincial final exam.

FOUNDATIONS OF MATH AND PRE-CALCULUS 10 (FMP 10)

Prerequisite: MA 09

- This course leads to Foundations of Math 11 or Pre-calculus 11.
- Topics covered include measurement, graphing, functions, algebra, number operations, and trigonometry
- This course has a provincial final exam.

APPRENTICESHIP & WORKPLACE MATH 11 (AWM 11)

Prerequisite: AWM 10 or FMP 10

- This course leads to Apprenticeship & Workplace Math 12.
- Topics include: problem solving, finance, rate, ratio and proportion, trigonometry, volume, capacity, and 3-D objects
- This course is intended for students interested in the general workforce and the majority of trades.

FOUNDATIONS OF MATHEMATICS 11 (FMP 11)

Prerequisite: FMP 10

- This course leads to Foundations of Math 12
- Topics include: application of rates, scale factors, areas, surface areas and volume, proofs of properties of angles and triangles, inductive and deductive reasoning, systems of linear equations, quadratics, statistics (standard deviation, normal distribution of z scores, confidence intervals and margin of error)
- This course is intended for students who may choose to further their education in general studies (Social Studies, Humanities, Fine Arts, etc...)

PRE-CALCULUS 11 (PREC 11)

Prerequisite: FMP 10 (C+ or higher)

- This course leads to Pre-calculus 12.
- Topics include: Absolute value, radicals and radical expressions, rational expressions and equations, polynomial factoring, quadratics, systems of linear and quadratic equations and inequalities, arithmetic and geometric sequences, reciprocal functions, trigonometry.
- This course is intended for students looking to further their education in programs requiring calculus (Math, Sciences, Engineering, Medicine, Commerce, etc...)

FOUNDATIONS OF MATHEMATICS 12 (FMP 12)

Prerequisite: FMP 11

- Topics include: Finance, logic, probability, relations and functions.
- This course is intended for students who may choose to further their education in general studies (Social Studies, Humanities, Fine Arts, etc...)

PRE-CALCULUS 12 (PREC 12)

Prerequisite: PC 11

- Topics include: Trigonometry, relations and functions, logarithms, polynomials, probability and combinatorics.
- This course is intended for students looking to further their education in programs requiring calculus (Math, Sciences, Engineering, Medicine, Commerce, etc...)
- This course leads to Calculus 12

CALCULUS 12 (CALC 12)

Prerequisite: Thorough knowledge of topics in Pre-Calculus Math 12

- This is an introductory Calculus course in which we cover many of the topics of first year calculus, including limits, derivatives and integration. Taking this course gives students a good look at what to expect in first year calculus at a university.

MODERN LANGUAGES

- According to Ministry of Education policy, a second language course is a compulsory part of every student's program from Grade 5 through Grade 8. Core French is the compulsory language offered in Grade 8 in School District No. 57.
- Ministry policy specifically states that School Districts may no longer routinely exempt ESL or other Special Education students from compulsory second language courses.
- From Grades 9 through 12, a second language course will continue to be optional.
- Students considering dropping their second language courses before Grade 11 or 12 should ensure that such a language course is not required for admission to their post-secondary faculty or institution of choice.
- Language programs emphasize listening and speaking skills especially in the junior grades. As the students become more proficient, increasing time is devoted to practice of reading and writing so that by the end of Grade 12 a successful student has acquired sufficient fluency upon which to build future studies.

FRENCH 8 (FR 08)

- Integrates language skills in reading, writing, listening and speaking by using a variety of literature and media.
- Increases vocabulary and knowledge of the Francophone world.
- Students will be able to share information about activities and interests.

FRENCH 9 (FR 09)

- Integrates language skills in reading, writing, listening and speaking by using a variety of literature and media.
- Increases vocabulary and knowledge of the Francophone world.
- Students will be able share opinions and preferences, giving reasons.

FRENCH 10, 11, 12 (FR 10, FR 11, FR 12)

- Increasingly sophisticated activities and materials are used for skill development.
- A wider variety of literature and media are used.
- Students will be able to describe, narrate, or analyze events, situations, or experiences.
- Students will learn to communicate needs, desires, and emotions; exchange opinions, ideas, thoughts, and points of view (giving reasons and reacting).
- Cultural content will include the role of French in the Canadian context, France and its contributions to the world, and the role of French as a language of global communication.

INTRODUCTORY SPANISH 11 (BSP 11)

Prerequisite: None (open to Grades 9-12)

This introductory language course is for Grade 9-12 students wanting to study an additional language and gain a basic knowledge of Spanish. No previous language knowledge is required. Practice is provided in all four language skills: listening, speaking, reading, and writing. Emphasis is placed on vocabulary building, pronunciation, and developing interpersonal communication skills.

Through a variety of activities including conversations, presentations, audio and video components students will gain an appreciation of Hispanic culture and Spanish as a language of global communication

PERFORMING ARTS - MUSIC

BAND 8 BEGINNER: (MMU 08)

Exploring Instrumental Music – Beginner Concert Band

Open to ALL students in Grade 8

A five week course where Grade 8 students experience the basics of:

- Learning to play a musical instrument in a group setting
- Reading, composing and performing music
- Exploring music on our instruments and how they relate to history and culture

(This great opportunity for both NEW band students and experienced band students who want to learn a NEW band instrument)

Note: Band instruments are available at the school

The focus is on developing a great team spirit and making music together.

BAND 8 ADVANCED: (MMU 08 H1)

Enriched opportunities for Young Band

Open to all grade 8's who have had elementary band experience or equal ability. In this course students will:

- Play a musical instrument in a group setting called the Concert Band
- Read, perform and compose music
- Learn the basics of conducting a Band
- Explore historical and cultural aspects of music on our instruments beyond the elementary level

BAND 2: CONCERT BAND LEVEL 2 – YOUNG BAND (MMU 09, MMCB 10, MIMCB 11, MIMCB 12)

Open to all students Grades 9 - 12 who have had previous band experience or equal ability. In this course students will:

- Develop music skills from beginner band in a group setting called the Concert Band (Level 1)
- Develop basic skills specific to their band instrument
- Perform concerts, attend festivals and in some case go on small band trips
- Demonstrate creative independence on instruments while supporting classmates
- Learn to compose music and conduct a Concert Band
- Explore music in a historical and cultural context

BAND 3: INTERMEDIATE BAND – DEVELOPING BAND (MMU 09, MMCB 10, MIMCB 11, MIMCB 12)

Open to all who have completed Level 2 successfully or can demonstrate equal ability. In this course students will:

- Further develop skills on a musical instrument
- Create music in a group setting to performance level (Intermediate)
- Perform concerts, attend festivals.
- Learn to compose music and conduct a Concert Band
- Explore music in a historical and cultural context

Students in this course are eligible for the Senior Band Trip.

BAND 4: ADVANCED BAND – SYMPHONIC BAND

This is a full year course that runs outside the timetable

Open to all who have completed Level 3 successfully or can demonstrate equal ability. In this course students will:

- Further develops skills on their musical instrument in a Concert Band setting (Advanced)
- Create, explore and perform music to a high level with their peers
- Perform concerts, attend festivals.
- Learn to compose music composition and conduct a Concert Band
- Explore music in a historical and cultural context

Students in this course are eligible for the Senior Band Trip.

JUNIOR JAZZ BAND: BEGINNING JAZZ BAND

This is a full year course open to students in grades 8-10 who are looking for an enriched band experience and are also registered in Band 8, Band 1 or Band 2. This course runs outside the timetable. In this course students will:

- Learn about and perform in the Genres of Rock, Latin, Swing and Funk styles (and more) in a Jazz Band Setting.
- Explore opportunities of musical improvisation
- Perform concerts, attend festivals and enjoy community music outreach opportunities

SENIOR JAZZ BAND: ADVANCED JAZZ BAND

This is a full year course open to students in grades 10 – 12 who are looking for an enriched band experience and are also registered in Band 2 or Band 3. This course runs outside the timetable. In this course students will:

- Develop further performance knowledge of genres of Rock, Latin, Swing and Funk styles (and more) in an advanced Jazz Band Setting.
- Develop greater knowledge and comfort level in improvisation
- Perform concerts, attend festivals and enjoy community music outreach opportunities

INTRODUCTORY CHOIR (MMCC10, MCMCC11, MCMCC12)

Pre-requisite: None

Open to students in all grades. In this course students will:

- Be given a performance-based course that focusses on learning how to control your breathing, body, and voice to create music.
- Develop basic vocal skills and will be taught the techniques of singing together in a group setting
- Develop ensemble skills, teamwork, leadership, responsibility, and initiative through the learning and performing of selected repertoire
- Address basic music history and theory as well as how to critically listen to and analyze choral music
- Perform concerts, attend festivals and enjoy community music outreach opportunities

DRAMA and FILM PRODUCTION

Carefully sequenced sets of activities build skills in Drama 8, 9 and 10, followed by advanced, specialized Theatre Performance and Production courses in the senior years.

DRAMA 8 (DR 08)

A five week course where Grade 8 students explore the basics of:

- Theatre games
- Mime and storytelling
- Improvisation

The focus is on developing work generated by students in class

FILM 8 (DR 08 FT)

A five week course where Grade 8 students explore the basics of TV production skills including

- Working with film equipment
- Learning how to edit
- Presenting on camera
-

Students will work together to create short broadcasting videos

DRAMA 9 (DR 09)

Progresses from Drama 8. This course lays the foundation for more advanced courses in acting: communication skills, creating characters, developing storylines into scenes. The focus is still on creating drama from the students' experiences.

DRAMA 10: GENERAL (DRG 10)

Progresses from Drama 9. This course, emphasizing acting skills, serves as a transition to the performance based courses of the senior grades. Drama 9 and 10 are two different courses. Students do not have to take one before the other.

THEATRE PERFORMANCE 11: ACTING (TPA 11)

Application of acting and production skills in performance situations. The course culminates in a public performance. Students do not have to take junior drama courses prior to taking Acting 11.

THEATRE PERFORMANCE 12: ACTING (TPA 12) **Recommended Prerequisite: TPA 11**

- Exploration of influences from the past on performance today. Students will give several public performances, including a final production.

DRAMA: FILM AND TELEVISION 11 (DFT 11)

- This is a video production course. The focus is on building a good foundation of skills in camera techniques, sound, lighting and editing.
- Students will learn the basics of “set protocol” and the jobs in the industry. It is highly recommended that students take this course or have extensive experience filming and editing on a Mac before enrolling in Film 12.

DRAMA: FILM AND TELEVISION 12 (DFT 12) **Recommended Prerequisite: DFT 11**

- Students must have filming and editing experience prior to enrolling in this course.
- Advanced theory and practice in video production, editing and analysis.
- Students will have the opportunity to create a promo DVD showcasing their work.

HISTORY AND APPRECIATION OF FILM 12 (YVPA-2AHAF 12) **Recommended Prerequisite: n/a**

- This course is a study of groundbreaking films from the silent film era through to the films of today.
- Different genres of film will be studied, including science fiction, western, thriller, and drama.
- Students will develop their ability to evaluate and review films, and then to articulate their opinions in written and oral form. The skills introduced in this class will last a lifetime.

VISUAL ARTS: MEDIA ARTS 11/12 (VAMT 11/12)

Pre-requisite: DFT 11

- This is a specialized course for students intending on a career in the film/video industry. Students will work with more than one media in the creation of their videos.
- This course is offered as a directed studies program. Students must be highly self-motivated and disciplined.
- Students who wish to enroll in this course must have permission from the teacher.

PERSONAL DEVELOPMENT

PLANNING 10 (PLAN 10)

- Focus on requirements for the grad program: education and career transitions, financial planning, and informed decision-making related to health issues.
- This is a required course for graduation.

Other Personal Development Courses

COACHING 11 (YLRA-1CCHG 11)

- Coaching 11 is a theory and practical course in coaching, refereeing, organization, first aid and physiology. Students with an interest in coaching, recreation, sports administration or education will gain valuable knowledge, skills and attitudes to assist them in furthering their education in this area, finding employment in recreation related fields, and providing quality volunteer services to the community.
- Coaching 11 is a 4-credit course.

LEADERSHIP 11 and 12 (YIPS-1ALEA, YIPS-2ALEA)

- Two dynamic, hands-on courses for those students who want to make a difference in the social lives of their peers! Leadership students coordinate nearly all extracurricular social activities at DP. Todd – dances, BBQs, spirit weeks – we do it all!
- Ldsp 11 students learn organizational skills by working with our elementary feeder schools. Ldsp 12 students plan and coordinate activities within D.P. Todd.
- Topics include communication skills, group dynamics, leadership styles, planning and more. These are both 4-credit courses with the opportunity to earn an additional 4 credits. See the website for full course requirements.

WORK EXPERIENCE 12 (WEX 2A)

- This course is designed to help you explore possible future careers.
- Work Experience 12 is about increasing your employability skills through a variety of activities.
- The objective of WE 12 is to provide you with guidance and opportunity (work experiences) to sample or test-drive a variety of occupations to see which ones are a good fit with your skills, aptitudes and future aspirations.
- Course is composed of 20 job readiness lessons and 90 hours of actual work experience in the work place.
- This course is offered outside of the regular timetable.

PEER TUTORING 11 (YIPS-1BPTU 11)

Prerequisites: must be in Grade 11 or 12, teacher letter of recommendation

- The course teaches the basics of conditions, concepts and situations that affect learning. Through class discussions, lectures, readings, role plays and modelling students will develop skills to then work in junior classrooms or in elementary school classes.
- The course work will be a number of lessons during lunch and after school with the remainder of the course work (80 hours) completed in classes with small groups of students in tutoring situations or other tutoring duties.
- Students are required to keep a learning log and create teaching resources as well.

PHYSICAL EDUCATION

PHYSICAL AND HEALTH EDUCATION 8 and 9 (PHE-08, PHE-09)

- Participation in wide ranges of activities to both develop personal well-being and to provide a basis for lifelong healthy living.
- Activities may be selected from among Games, Dance, Gymnastics and alternate environmental activities.
-

PHYSICAL EDUCATION 10 (PE 10)

Recommended Prerequisites: PE 09

- Focus on areas of personal interest and participation in activities promoting social interaction, community responsibility and skill development.
- Is required as part of the graduation program.

PHYSICAL EDUCATION 11 (PE 11)

Recommended Prerequisites: PE 10

Charges for Field Trips

- Focus on areas of personal interest and participation in activities promoting social interaction, community responsibility and skill development.
- PE 11 is optional. Students can only receive credit once for PE 11 or PE 11 Girls.

PHYSICAL & HEALTH EDUCATION – FITNESS AND CONDITIONING (PHE-11, PHE-12)

- This course will focus on personal fitness and training. Students will design and implement their own fitness programs as well as experience and try different forms of exercise.

PHYSICAL EDUCATION 11/12 GIRLS (FITNESS & WELLNESS) (PE11 G, PE12 G)

Recommended Prerequisites: PE 10

Charges for Field Trips

- The objective of this course is to introduce young women to various activities that promote lifelong fitness and health. Focus on areas of personal interest and participation in activities promoting physical efficiency, fitness, personal growth and development, sportsmanship, and positive/safe lifestyle choices.
- PE 11/12 is optional. Students can only receive credit once for PE 11/12 or PE 11/12 Girls.
- This course is offered in a Y block which runs during the lunch hour year long.

PHYSICAL EDUCATION 12 (PE 12)

Charges for Field Trips

- Focus on areas of personal interest and participation in activities promoting social interaction, community responsibility and skill development.
- PE 12 is optional.

YOGA and PERSONAL DEVELOPMENT 1 (YHRA-1BYGA)

Recommended prerequisite: none

Through learning about and practicing yoga (including poses, breathing techniques and meditation), students will learn about how a yoga practice can aid in stress reduction, improved focus and heightened self-awareness.

The history and philosophy of yoga as well as the science involved in the mind – body connection will be covered. Students will also be expected to study anatomy and physiology as it relates to a yoga practice.

This course is designed for students who prefer a self-paced, non-competitive physical activity course.

This course does not satisfy the requirements for Physical Education 10.

YOGA and PERSONAL DEVELOPMENT 2 (YHRA-2YGA)

Recommended prerequisite: Yoga and PD 1

Students will deepen their skills of practicing poses, breathing techniques and meditation, to further aid in stress reduction, improved focus and heightened self-awareness.

The history and philosophy of yoga as well as the science involved in the mind – body connection will be expanded. Students will also be expected to study anatomy and physiology beyond the basics covered in Yoga and PD.

This course is designed for students who prefer a self-paced, non-competitive physical activity course.

This course does not satisfy the requirements for Physical Education 10.

BA VOLLEYBALL & WELLNESS 11 (YLRA-1EVBW)

Recommended Prerequisite: Physical Education 10

- This course is primarily designed to develop volleyball skills to an intermediate level. It will review in depth all the fundamentals of play including: passing, setting, serving, spiking, defensive techniques, rules of play, block coverage, rolling/diving, doubles play and 4-2, 6-2 and 5-1 offenses. Students will learn the advantages and benefits of cross training and volleyball fitness programs.
- The course will promote physical efficiency, fitness, personal growth and development, sportsmanship, and positive, safe lifestyle choices. This course will be offered in an X block which runs before school from 7:25 to 8:40 year-long on Tuesday, Wednesday and Friday.

BA VOLLEYBALL & WELLNESS 12 (YLRA-2EVBW))

Recommended Prerequisite: Volleyball 11

- This course is primarily designed to develop an increased ability to process the game of volleyball. Students will continue to demonstrate, with consistency, the fundamentals of play and will display an increased growth in the area of systems and advanced plays.
- In addition, the course will assist students in developing an understanding of the importance of: team building, exploring different coaching styles, and implementing the coaching style that best suits the personalities and learning styles of those you are working with. This course will be offered in an X block which runs before school from 7:25 to 8:40 year-long on Tuesday, Wednesday and Friday.

GROUND SEARCH & RESCUE (UGSR-11)

- Search and Rescue in British Columbia is tasked by the RCMP to deliver a number of services. From rescuing injured hikers to finding lost children, SAR provides an essential service to our communities.
- This program is a partnership between School District 57 and the Justice Institute of British Columbia. Successful participants will receive credit from both providers. Completion of this course will allow students to apply to any of the SAR programs in British Columbia. Participation in this program will be an excellent gateway to emergency services in BC and Canada: RCMP, Canadian military service, Paramedics, Fire Fighting etc.
- There are high standards for this program and students must achieve 70% in order to meet Provincial standards. Students must be physically fit and complete participation is mandatory. This program will be taught outside of the regular timetable and some activities will take place on the weekends.

OUTDOOR PURSUITS 11/OUTDOOR EDUCATION 12 (YLRA-1HOPS, YLRA-2AODR)
Students are expected to know the following:

- Health benefits of outdoor activities
- Outdoor activity skills in a variety of settings, including different weather conditions and physical environments
- First Peoples traditional practices and ecological knowledge related to activities in the local environment
- The role of environmental awareness and stewardship in outdoor recreation and conservation
- Preparation for outdoor activities
- Strategies for adapting and responding to changing conditions and emergencies
- First aid skills for responding to emergencies
- Communication in emergency situations
- Management of group dynamics and conflict in an outdoor environment

Students are expected to be able to do the following:

Outdoor activity skills and healthy living

- Participate in a variety of outdoor activities
- Develop and demonstrate a variety of skills for outdoor activities
- Monitor exertion levels, energy levels, and environmental conditions during outdoor activities
- Explain nutritional considerations and other requirements for preparation for and participation in outdoor activities
- Explain how developing competence in outdoor activities can increase confidence and encourage lifelong participation

Social responsibility

- Plan and implement ways to reduce potential impacts of outdoor activities on the local environment
- Demonstrate awareness of cultural sensitivities regarding the use of outdoor locations

Collaboration, teamwork, and safety

- Collaborate with others in a variety of outdoor activities
- Use applicable communication skills when interacting with others
- Demonstrate appropriate responses to emergency situations during outdoor activities
- Demonstrate responsibility for personal safety and the safety of others
- Assess and manage risks during different types of outdoor activities

PSYCHOLOGY

PSYCHOLOGY 11 (YPSYC1APSY)

- Provides an introduction to the study of psychology and the understanding of human behaviour.
- Explores the major personality theories, early states of development, the influences of heredity, biology and the environment on the individual as well as the impact that social interactions have upon behaviour.
- A range of psycho-pathologies is briefly examined in order to compare normal to “abnormal” behaviour.
- Students should be able to apply their understanding in practical ways to the study of human behaviour on an individual basis or in groups.

SCIENCE

The intent of the curriculum is to develop scientifically literate citizens who have a critical awareness of the role of science in society, combined with a caring and responsible disposition and an understanding of the social, health, ethical, and environmental dimensions of issues. Scientifically literate citizens are able to use scientific evidence, as well as their knowledge from other areas of learning, to develop their own views, discuss and debate, and make informed decisions in their daily lives and about broader issues and their wonder about the natural world.

Students should explore ideas that yield descriptions and explanations that are continually being improved within the context of our cultural values and ethics. They should get an appreciation of place-based knowledge and experience the local area in which they live by accessing and building on existing understandings, including those of First Peoples. They will work towards a solid foundation of conceptual and procedural knowledge that they can use to interpret and apply to new problems and issues. A goal being to develop the habits of mind associated with science — a sustained curiosity; a valuing of questions; an openness to new ideas and consideration of alternatives; an awareness of assumptions and a questioning of given information; a healthy, informed skepticism; a seeking of patterns, connections, and understanding.

SCIENCE 8 (SC 08)

- Safety and Scientific Method
- Life Processes are Performed at the Cellular Level
- Energy can be Transferred as Both a Particle and a Wave
- Theory of Plate Tectonics is the Unifying Theory that Explains Earth's Geological Processes
- The Behavior of Matter can be Explained by the Kinetic Molecular Theory and Atomic Theory

SCIENCE 9 (SC 09)

- Cells are Derived from Cells
- Electron Arrangement of Atoms Impacts Their Chemical Nature
- Electric Current is the Flow of Electric Charge
- Spheres of the Earth are Interconnected, as Matter Cycles and Energy Flows Between Them

SCIENCE 10 (SC 10)

- Processes of Science
- Sustainability of Ecosystems
- Chemical Reactions
- Radioactivity
- Motion
- Energy Transfer in Natural Systems
- Plate Tectonics

BIOLOGY 11 (BI 11)
Recommended Prerequisite: SC 10

Biology is a scientific discipline that studies a great variety of organisms. Biology 11 is based on three themes: Unity and Diversity, Evolutionary Relationships, and Ecological Relationships. A student taking Biology 11 will examine a wide variety of organisms and review a large amount of information in order to better understand the three themes.

During the course students will be presented with curricular content that will cover the following core topics:

1. Processes of Science
2. Taxonomy
3. Evolution
4. Ecology
5. Microbiology
6. Plant Biology
7. Animal Biology

CHEMISTRY 11 (CH 11)
Recommended Prerequisite: SC 10
Recommended: MA 10 or MA 11 and CH 11 taken concurrently

- Designed for the university-bound student, CH 11 expands on the study of physical and chemical properties of matter
- Introduction to Chemistry: chemical reactions and bonding
- Atomic structure
- Organic and solution chemistry

FORENSIC SCIENCE 11 (YFSC-11)

- This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

PHYSICS 11 (PH 11)
Recommended Prerequisite: SC 10
Recommended: FMa10 (B minimum)

- Introductory course that focuses on the principles and theories of physics encourages investigation of physical relationships and illustrates the relationships between theories and applications.
- Provides a solid base for further study in kinetics, dynamics, work/energy, and momentum.
- Strong background in Mathematics and problem solving skills are essential.
- Recommended to take Found. Ma11 or PreCalc. Ma11 concurrently or have completed.

SCIENCE FOR CITIZENS (SCT 11)

Recommended Prerequisite: SC 10

- Science Informs our Decisions and Impacts our Daily Lives
- Science has Everyday Uses and Safety Implications in the Workplace
- Science Helps Explain how Natural Changes and Human Choices Affect Global Systems

SUSTAINABLE RESOURCES 11

(SR 11)

Recommended prerequisite: Science 10

- This is a general, introductory course on the topics of sustainability in the areas of Fisheries, Agriculture, Mining and Forestry with a focus on energy and alternatives available. We will be studying how we can maintain our current way of life and balance the needs of the environment. A choice of research projects in 2 or 3 of the above areas will be provided.

BIOLOGY 12 (BI 12)

Recommended prerequisites: Chemistry 11 and Biology 11

Biology 12 focusses on human biology, allowing students to develop an interest in and understanding of science by looking at themselves and seeing how the diverse body systems are integrated to maintain homeostasis. Biology 12 attempts to place an emphasis on the processes of science as the core topics are covered.

The core topics to be covered include:

- Processes of Science – Integrated throughout the course
- Cell Biology – From Molecular Biology to cells and cell processes
- Human Biology – A detailed study of the anatomy and physiology of organ systems

CHEMISTRY 12 (CH 12)

Recommended Prerequisite: CH 11

Recommended: Strong background in Mathematics and Problem Solving

- Chemistry in the world around you and how it affects your everyday life.
- Lab assignments are integral to the topics studied:
 - Reaction Kinetics
 - Solubility Equilibria
 - Dynamic Equilibrium
 - Acids, Bases, and Salts
 - Oxidation-Reduction

PHYSICS 12 (PH 12)

Recommended Prerequisite: PH11, MA 11

- Study of classic mechanics and electromagnetism designed to help students develop analytical and problem-solving skills.
- Provides opportunities for students to understand and apply the principles and concepts of physics to practical situations.
- Proper laboratory skills and safety measures will be stressed.
- Topics include:
 - Work, Energy and Power
 - Vector Kinematics and Dynamics
 - Momentum and Equilibrium
 - Circular Motion
 - Gravitation
 - Electrostatics
 - Electric Circuits
 - Electromagnetism

SOCIAL STUDIES

SOCIAL STUDIES 8 (SS 08)

- Focus on the forces that build up a society and tear it down.
- Examines history between 500 and 1750 CE.
- Key themes include how past events impact our society today. Another theme is First Peoples before contact and their various experiences with Europeans as explorers and settlers. Finally a key theme is the influence of power on people and organizations.

SOCIAL STUDIES 9 (SS 09)

Recommended Prerequisite: SS 08

- Focus on global and early Canadian history and geography from 1750 to 1919 CE.
- Themes may include the impact of immigration on the nation we have today and its impact on First Peoples. It may also include revolutions, the development of Canada as a nation and Canada's role in World War One.

SOCIAL STUDIES 10 (SS 10)

Recommended Prerequisite: SS 09

- Studies the history and geography of Canada from 1919 to the present.
- An integrated approach to Canadian and global issues—social, cultural, political, economic and environmental.
- A foundation course for future studies in the humanities and social sciences.
- A focus on what it means to be a Canadian citizen.

SOCIAL STUDIES 11 (SS 11)

Recommended Prerequisite: SS 10

- An integrated approach to Canadian and global issues - social, cultural, political, economic and environmental.
- A foundation course for future studies in the humanities and social sciences.
- A focus on what it means to be a Canadian citizen.

HISTORY 12 (HI 12)

Recommended Prerequisite: SS 11

- Using the traditional methods of history to analyze and evaluate historical evidence to determine its reliability and significance.
- Apply those methods to a study of the world after 1919, with its varying periods of conflict and collaboration.

LAW 12 (LAW 12)

Recommended Prerequisite: SS 11

- A survey course covering criminal law, civil law, family law, labour law, human rights and torts.
- A case study method is used to provide a high level of student interest and involvement.
- This course culminates in a mock trial as a substitute for a written final exam.

CULTURES IN CONFLICT 12 (YSSC 12ACIC)

Recommended Prerequisite: SS 11

- This course looks at the history of genocide in the Twentieth Century. It specifically covers the Holocaust of World War 2 and the Rwanda Genocide of 1994 as well as others.
- It culminates in a personal project into a specific genocidal event of the student's choosing.
- The point of the course is not simply to learn about the events around genocide, but to attempt to understand why it happens and suggests ways of preventing it in the future.

COMPARATIVE CIVILIZATIONS 12 (CNN 12)

Recommended prerequisite: SS 11

- Studies ancient cultures from the Mediterranean (Egypt, Greece, Rome & Persia), Asia (India, China & Japan) and the Americas (Inca, Mayans & Aztecs) and compares them to modern experiences.
- Study includes political, social, economic, religious / philosophical / mythological, artistic, military, and behavioral systems.
- Student led research / presentations will include additional cultures / topics.
- Interactive activities will be numerous and may include visiting a Sikh temple or Muslim Mosque, learning yoga & meditation, a Japanese tea ceremony, and a banquet of various ancient foods. (http://www.bced.gov.bc.ca/irp/pdfs/social_studies/2006compciv12.pdf)

GEOGRAPHY 12 (GEO 12)

Recommended prerequisites or Co-requisite: SS11

- This course explores the processes that shape the earth (like rivers and glaciers), the land forms that result, natural disasters, climate and resource issues.
- We also explore human-environment relationships and the special connections people have with places.
- Some of our focus will be on global challenges, current events, and local geography; course includes some local field trips.

TECHNOLOGY EDUCATION

POWER TECHNOLOGY 8: MECHANICS (ADPT08)

- Beginning mechanics course introduces students to mechanics shop.
- Build model cars and small powered vehicles.

POWER TECHNOLOGY 9: MECHANICS (ADPT09)

- This is a beginning course based on the maintenance and repair of small engines. It is an introductory course and is useful for all students.

TECHNOLOGY EDUCATION 10: MECHANICS (TEC 10)

- This course expands on the knowledge and experiences of grade 9 mechanics.
- This course counts as 4 credits in the graduation program.
- This course has no pre-requisite.

AUTOMOTIVE TECHNOLOGY 11 (MAT 11)

No pre-requisite for Automotive 11

- Grade 11 is based on general automotive mechanics. This is an introductory course to servicing an automobile and is designed for all students.

AUTOMOTIVE TECHNOLOGY 12 (MAT 12)

Recommended Prerequisite: AT 11

- Grade 12 begins engine and drive train and expands on knowledge learned in AT 11. The majority of the class time is spent working on “hands-on” activities.

ADST – DRAFTING 8 (ADD 8)

A five-week course that introduces Grade 8 students to the basics of Technical Drawing including:

- Drawing with Drafting instruments
- Drawing with Computer Aided Drafting (CAD)
- Various different ways of showing objects (Pictorial, Multi-View...)

ADST – DRAFTING 9 (ADD-09)

- From an introduction to the elements of traditional drafting to Computer Aided Design (CAD).
- Illustrating architectural, electrical, mechanical or electronic elements.
- Senior courses have narrower focuses to reflect student interests, and may include Drafting and Design courses, which focus on specific areas like textiles or architecture.

TECHNOLOGY EDUCATION 10: DRAFTING & DESIGN (TED 10)

- From an introduction to the elements of traditional drafting to Computer Aided Design (CAD).
- Illustrating architectural, electrical, mechanical or electronic elements.
- Senior courses have narrower focuses to reflect student interests, and may include Drafting and Design courses, which focus on specific areas like textiles or architecture.

DRAFTING & DESIGN: 11/12

(DD 11, DD 12)

- From an introduction to the elements of traditional drafting to Computer Aided Design (CAD).
- Illustrating architectural, electrical, mechanical or electronic elements.
- Senior courses have narrower focuses to reflect student interests, and may include Drafting and Design courses, which focus on specific areas like textiles or architecture.

TECHNOLOGY EDUCATION 8, 9, 10: WOODWORK (ADW-08, ADW-09, TEW 10)

- Designing and building projects using both hand and power tools safely and effectively.
- Fine Woodworking projects focus on aesthetics rather than strict practicality.

CARPENTRY AND JOINERY 11 (CJ 11)

- This course focuses on the design and construction of furniture. Students will learn the use of a variety of power tools, special jigs, set-ups and safety involved in the construction of furniture.

CARPENTRY AND JOINERY 12 (CJ 12)

Recommended prerequisite: CJ 11

- This course continues to expand the student's skills in the construction of projects using a variety of fabricating and finishing techniques. Mass production techniques may also be emphasized. An excellent course for students interested in cabinet making, custom furniture, and carpentry related careers.

ROBOTICS & ENGINEERING (MADER09, MTEE-10ROB, MEL-ROB, MELR-12)

Open to students Grade 9-12

- Students will use robotics to explore the fundamentals of engineering and electronics.
- No prior experience is necessary. A willingness to work in a team environment, take on responsibility and work hard, are all vital skills to have in order to be successful in this course.
- Part of the course will involve building our robotics team brand, this includes: fundraising, running social media accounts, and reaching out to the Prince George community for support and resources.
- The skills and knowledge acquired throughout the course will be used to design and build a robot as a team, to compete at a regional FIRST robotics event.

CAREER AND TECHNICAL CENTRE (CTC)

In Career Education, we strive in helping students explore a wide range of diverse working environments. It is our focus to encourage students to seek out opportunities that will benefit them in making a confident career decision. Students can choose to participate in a variety of exciting programs that will train them to develop the skills they need to establish a stable career.

Some Programs Offered to Students

Career Technical Centre: Students in School District 57 can take a course at the College of New Caledonia while earning dual credits, graduating with both their Grade 12 and their first year of technical training.

Careers in Health Care UNBC: Explore the *Physiotherapy Program*, the *Northern Medical Program*, the *Nursing Program* and UNBC's *Health Sciences Programs*.

CNC/UNBC Tours: This program is being offered to Grade 10-12 students keenly interested in learning more about the *Ecosystem Science and Management Program Degrees* *at UNBC and/or the *Natural Resources and Environmental Technology Diploma Program(NRET)* at CNC. Both of these programs offer a wide range of career options and would appeal to students interested in all aspects of resource and environmental management. If students like the outdoors and enjoy the sciences this may be just the opportunity for them.

Futures in Health at CNC – Med Lab/Nursing: Explore the *Medical Radiography Technology Diploma Program*, the *Health Care Assistant Certificate Program*, and the *Dental Assisting Certificate Program*.

Futures in Health at CNC – Med Lab/Health Care Assistant/Dental: Explore the *Medical Radiography Technology Diploma Program*, the *Health Care Assistant Certificate Program*, and the *Dental Assisting Certificate Program*.

Heavy Metal Rocks: This program run jointly by the Prince George Construction Association and School District #57 provides students with exciting hands-on experiences operating heavy equipment found in the construction industry.

Junior Initial Attack: This program is a highly selective program for Grade 12 students. The selected students will complete training with the Wildland Fire Service over the course of the school year. The best five students from the training will be offered employment with the Wildland Fire Service in July of their graduation year.

Kindergarten Health Circuits: Each year Northern Health provides health exams to all Kindergarten students of School District #57. Grade 11 and 12 students are offered short term work experiences assisting the healthcare professionals with the various immunizations and tests in areas such as dental hygiene, audiology, ophthalmology and general health.

Northern Opportunities: Students will experience what the jobs in the energy sector look like in North East B.C. They will also have the opportunity to obtain course credits and a work force training ticket from H2S Alive.

Prince George Fire Rescue: Students interested in a career in structural firefighting are encouraged to apply. Students are assigned to a fire crew and follow their daily regime of training and attending calls.

RCMP Youth Academy: This program is offered to students interested in a career in policing or law enforcement. Students are provided with a “boot camp” style experience during a week of their Spring Break. RCMP officers provide training opportunities on a wide range of topics from major crimes to victim services.

Secondary School Apprenticeships: Get a head start on the work based training component of your apprenticeship. Students who are between 15 and 19 years of age can gain valuable benefits by registering as a secondary school apprentice.

UNBC Careers in Health: Explore the *Physiotherapy Program*, the *Northern Medical Program*, the *Nursing Program* and UNBC’s *Health Sciences Programs*. There will be lectures, a question and answer session, demonstrations and tours of UNBC and the Northern Medical Program facilities.

Work Experience: Students in Pre-Employment, Special Learning and Centre for Learning Alternatives Community Alternate Education programs have the opportunity to be placed on two-week unpaid work experiences up to twice per year.

New this year: Adventures in Health Care, Young Entrepreneurs in Schools, Chop 57 and more!!!!

**For more information please visit our website:
<https://www.sd57.bc.ca/school/cia/career/Pages/>

SECONDARY SCHOOL APPRENTICESHIPS

- Start your trades apprenticeship while in high school
- See your Counsellor for details

SPECIAL PROGRAMS

TRANSITIONS PROGRAM

- This program is designed for grades 8, 9 and 10 students who need to upgrade their core skill development in Mathematics and English.
- Students in grade 8 who successfully complete the requirements of their Educational Plan in Transitions will, based on the teacher's recommendation, have three possible paths available to them the following year:
 1. Transitions 9
 2. Recommended for selected gr 8 courses blended with gr 9 or gr 9 core courses
 3. Recommended for Grade 9 or gr 9 core courses
- Transitions 9 may lead into the Pre-Employment Program or the Alternate Education Program (program descriptions below) based on the Transitions teacher's recommendation.

ALTERNATE EDUCATION PROGRAM

- Alternate Education provides students who have not succeeded in regular classes an opportunity to upgrade academic courses at the Grade 10 – 12 levels. These courses prepare students for provincial exams and count towards graduation.
- Some students may need to complete Grade 9 courses before moving to Grade 10 work.
- Students must be capable and motivated to handle the course material. Entry into Alternate Education is through a screening process. Students and parents who are interested may contact the Alternate Education teacher or a counselor for more information.

PRE-EMPLOYMENT PROGRAM

- This program is designed for students who need to focus on the skills they will need as adults.
- In addition to academic upgrading, students will concentrate on the life skills and job education they will need to enter the world of work. Work experience is an integral part of this program.
- Students who successfully complete the requirements of their I.E.P. will participate in the Valedictory Ceremony at the end of their Grade 12 year. They will receive a School Completion Certificate. Parents may contact the PEP teacher or a counselor for more information.

LEARNING ASSISTANCE PROGRAM

- Learning Assistance is offered to students in grades 8 – 12 who need extra support with academic classes. Adaptations and adjudication of provincial exams may be available depending on the student's needs. Parents may contact the LA teacher or counselor for more information.

STUDENTS MAY NOT SELF-SELECT THESE COURSES OR PROGRAMS.

