

# TIMBERLINE SECONDARY



## PRINCIPAL / VICE PRINCIPAL MESSAGE

Welcome to the 2024-25 school year! Our staff spend many hours preparing courses and organizing this booklet so that students have as much a range of course choices as possible. Students, please take the time to read through the booklet and share the information with your families. The courses you choose will help us offer opportunities at the school, as well as provide each of you with as exciting and diverse an experience at Timberline as possible.

We urge you to extend your learning by trying to find an opportunity to enroll in a class, or subject area that you have not tried before. Often it is in these types of situations that students find a passion for something that leads to a life-changing career path!

Mr. Laird Ruehlen, Principal

Mr. Kai Taylor, Vice-Principal

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## TIMBERLINE SERVICES AND PROGRAMS

### COUNSELLING

The counselling office at Timberline provides a variety of counselling services to our students. These include course selection assistance, post-secondary planning, and personal counselling. Students are assigned a counsellor by their last name but can choose a counsellor of their preference. Appointments can be made to see a counsellor in the school's student services office.

### CAREER DEVELOPMENT

Timberline's Career Facilitator can be found in the student services office. The Career Facilitator has many roles that include Co-op education and dual credit options with North Island College.

### INDIGENOUS YOUTH WORKER AND SUPPORT TEACHER

Timberline's Indigenous students are welcome and encouraged to connect with our Indigenous Youth Worker and Support Teacher. The Youth Worker can be found in the Friendship Room, while the Support Teacher can be found in the Student Services Office.

*Services and Programs continued next page...*

# TIMBERLINE SECONDARY

## LEARNING COMMONS

The Library Learning Commons is a learning hub for the school community that encourages teachers and students to collaborate, communicate, and share. It is a flexible space that meets a variety of needs for students, classes, clubs, and community events, supporting inquiry, creativity, and connection. Students are always welcome in the learning commons, before, after, and during school hours where Mrs. Murphy is happy to provide any support she can offer.

## FLEX WEDNESDAY

Timberline students participate in a Flex Wednesday Schedule. More details will follow as to how this schedule will look for our next school year. Overall, though, we value the opportunity our students have to experience a more flexible learning situation one day a week.

## STUDENT SUPPORT

Student support is designed for students who may need extra time and support with their academic courses. Students needing support will consult with the learning support teachers and counsellors to determine the best form of support for their academic needs.

## ELECTIVES AT TIMBERLINE

Timberline students can take a variety of electives over their four years at the school. As students progress through each grade more elective options become available. Students are encouraged to take a variety of electives in grade 9 and 10 to assist them in choosing an area of interest once they are in grade 11 and 12. Below is an overview of the subject areas with electives. Specific courses and descriptions can be found in the course booklet.

- **BUSINESS EDUCATION**
- **CAREERS/WORK EXPERIENCE**
- **DIGITAL HACKERSPACE**
- **DIGITAL MEDIA**
- **DISTRICT PROGRAMS**
- **HOME ECONOMICS**
- **HUMAN SERVICES & SOCIAL SCIENCES**
- **LANGUAGES**
- **LEADERSHIP**
- **PERFORMING ARTS**
- **PHYSICAL EDUCATION**
- **POST-SECONDARY/DUAL CREDIT OPTIONS**
- **TECHNOLOGY EDUCATION**
- **VISUAL ARTS**

## EXTERNAL CREDITS

Many activities that students are involved in outside of school qualify for high school credits. Please check with your counsellor to determine if you are eligible.

## BC GRADUATION PROGRAM

The B.C. Certificate of Graduation, or Dogwood Diploma, is awarded to students who successfully complete the provincial graduation requirements. To graduate, students require at least 80 credits total. These credits are accumulated through required courses, electives, and career education. Of the required course credits, at least 16 credits must be at the grade 12 level, and at least 4 credits must have an Indigenous focus. All courses are worth 4 credits unless indicated.

## REQUIRED COURSES = 52 CREDITS

- Composition and Literary Studies 10 (English 10)
- First Peoples English 11
- English Studies 12
- Social Studies 10
- a Social Studies 11 or 12
- Science 10
- a Science 11 or 12
- a Mathematics 10
- a Mathematics 11 or 12
- Physical Education 10
- a Fine Arts/Applied Skills 10-12
- Career-Life Education 10
- Career-Life Connections 12

## ELECTIVE CREDITS

*Students must earn a minimum of 28 elective credits:*

- Grade 10, 11, or 12 Ministry-Developed or Ministry - Approved courses.
- Board Authorized Courses
- Independent Directed Studies
- External Credits
- Post-Secondary/Dual Credits

## PROVINCIAL GRADUATION ASSESSMENTS

Students must write a Grade 10 Numeracy Assessment and a Literacy Assessment in Grades 10 and 12.

# TIMBERLINE SECONDARY

## ENGLISH

### COMPOSITION AND LITERARY STUDIES 10 (ENGLISH 10)

Listening, speaking, reading, analyzing, and writing skills are important to prepare you for life! English 10 provides students with opportunities to develop all these effective communication skills and more! Students develop an appreciation of language and literature, old and new, and they extend their creative and critical thinking skills through expository, persuasive, and narrative writing forms.

### COMBINED ENGLISH 10 AND SOCIAL STUDIES 10 (12 CREDITS)

"History will be kind to me for I intend to write it." With its focus on historical and contemporary social, cultural, political, legal, economic, and environmental issues, this literary study will prepare students for their future lives as Global citizens and members of the international community. This course will combine Social Studies 10 and English 10, along with the opportunity to engage in an independent directed study based off the course curriculum. The Social Studies 10 portion of the course will cover a vast amount of information, and the skills students will learn through English 10 will not only prepare them for the Provincial Assessment, but also how to analyze information, concisely convey ideas, and communicate effectively. *Worth 12 credits.*

### FIRST PEOPLES ENGLISH 11

First Peoples English 11 is the academic equivalent of English Language Arts 11 and is open to all students who have passed English 10. This course will enable students to develop the English language and literacy skills and capacities to meet graduation requirements, while focusing on First Nations perspectives, authors, and principles of learning. In this course, students will study texts that present authentic First Peoples voices and important themes such as, connection with the land and environment, the nature and place of spirituality, the nature of knowledge — who holds it, what knowledge is valued, the role of Elders, the importance of a living oral language tradition, the experience of colonization and decolonization, loss and grieving, freedom and hope, and humour and its role in First Peoples cultures. Note. All students at Timberline are registered for English First Peoples 11 to satisfy the Graduation Requirement for a four credit Indigenous centred course in high school.

### ENGLISH STUDIES 12

"Have something to say and say it as clearly as you can." English 12 is the culmination of the regular English program. Students are expected to continue to develop their knowledge and skills. Students can expect to read worthwhile materials and improve their language proficiency as they develop their skills through a variety of written and visual responses.

### COMBINED ENGLISH 11 OR 12/HISTORY 12, INDEPENDENT STUDY 11 OR 12 (12 CREDITS)

"We are not makers of history. We are made by history." With its focus on historical and contemporary social, cultural, political, legal, economic, and environmental issues, this literary study will prepare students for their future lives as Global citizens and members of the international community. This course will combine History 12 and English 12, along with the opportunity to engage in an independent directed study based off the course curriculum. The History 12 portion of the course will cover a vast amount of information, and the skills students will learn through English 12 will not only prepare them for the Provincial Assessment, but also how to analyze information, concisely convey ideas, and communicate effectively.

### FIRST PEOPLES ENGLISH 12

First Peoples English 12 is the academic equivalent of English Language Arts 12 and is open to all students who have passed English 11. This course will enable students to develop the English language and literacy skills and capacities to meet graduation requirements, while focusing on First Nations perspectives, authors, and principles of learning. In this course, students will study texts that present authentic First Peoples voices and important themes such as, connection with the land and environment, the nature and place of spirituality, the nature of knowledge — who holds it, what knowledge is valued, the role of Elders, the importance of a living oral language tradition, the experience of colonization and decolonization, loss and grieving, freedom and hope, and humour and its role in First Peoples cultures. While the focus of this course is primarily on First Peoples voices from British Columbia, it will also offer students an opportunity to study texts that reflect First Peoples perspectives from elsewhere in Canada and throughout the world.

### CREATIVE WRITING 10-12

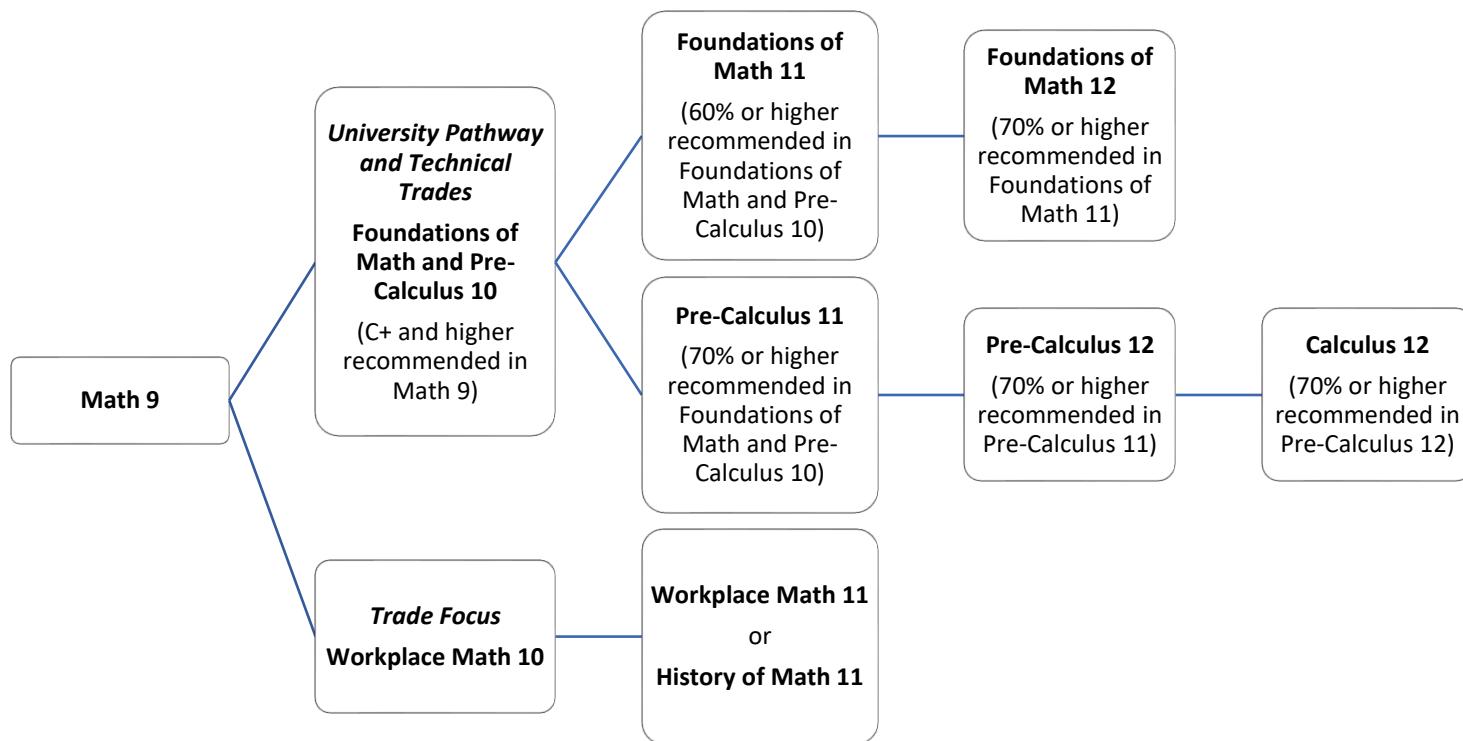
Writing 10-12 will be the best and the worst course you will ever take! It's the best course because you do not have to study or write tests or exams. You do not have to memorize muscles, bones, formulas, or dates. It will be the most difficult course you will ever take because — guess what? — you write it. This course does not exist without you! You are doing what few dare to do and that is to say what you feel. Writing 10-12 is simple. Use the best words in the best order to say what you mean. In this course we will be practicing different types of writing including exposition, persuasion, description, dialogue and narration. You will be producing poems, stories, memoirs, blogs, and more! *This is an elective course.*

### ENGLISH LITERATURE 12

Literature 12 is a historic review of English Literature designed for students interested in pursuing further studies of the English language. It will interest those who enjoy reading for pleasure, analysis, and intent. *This is an elective course.*

## MATHEMATICS

There are different pathways for students in math at high school. It is important that you choose the pathway that is appropriate for you. All students will need to write the provincial numeracy assessment in grade 10. Below are the pathways that can be taken in math.



## MATHEMATICS COURSES

### WORKPLACE MATHEMATICS 10

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into most trades and for direct entry into the work force. Topics include algebra, geometry, measurement, statistics and probability. Successful completion of Apprenticeship and Workplace Mathematics 10 will lead into Workplace Mathematics 11 and Apprenticeship and Workplace Mathematics 12 only.

### FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 PREP

This course is designed as a prerequisite to Foundations and Pre-Calculus Mathematics 10. The semester will focus on skill-building and making connections to better enable students to find success in a curriculum-heavy, fast-paced Mathematics 10 classroom. Students enrolled in this course are required to follow-up with either Foundations and Pre-Calculus Math 10 or Apprenticeship and Workplace Math 10 in their next semester. Topics include study skills, formula and equation manipulation, basic algebra, geometry, and financial planning.

### FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for post-secondary studies. The grade 10 year will set a basis for deciding whether to pursue exclusively the theoretical Pre-Calculus stream or the more applied Foundations stream. Students who are thinking of entering a mathematically dependent field (Mathematics, Computer Studies, Engineering, Sciences, etc.) may want to choose both streams in grade 11. Topics include measurement, coordinate geometry, algebra, and trigonometry.

### MATHLETES 10

#### (YEARLONG FOUNDATIONS AND PRE-CALC 10 AND PE 10)

Do you want to have PE all year long? Do you want to up your game in math? Then Mathletes 10 is the course for you! We all know the physical benefits of activity, but it has been shown that there are astounding learning and mental health benefits as well. Getting your heart rate into a moderate zone for 20-30 minutes can greatly improve our ability to learn directly after the activity and throughout the day. Some blocks will be all PE, some all Math and some will be a split of PE and Math. Other advantages this course offers are increased time to learn mathematical concepts and decreased length of time off between Math 10 and Math 11. If you are keen to participate fully in both courses sign up now!

*Mathematics Courses continued next page...*

# TIMBERLINE SECONDARY

Timberline offers four math courses at the grade eleven level. If students are unsure of their plans, they may take as many Math 11 courses as they want (in the same way that students have the option of taking courses in more than one field of science).

Note: While any of the following courses satisfies Ministry of Education graduation requirements, it may not be sufficient for entry into specific post-secondary programs. Please check with your individual institutions for details. Students intending to write the SAT or attend post-secondary outside of BC should be taking both Foundations of Math 11/12 and Pre-Calculus 11/12. Taken alone, neither of these two pathways covers the required material.

## HISTORY OF MATH 11

*Prerequisite: FMP10 or WM10*

This isn't your regular math class! Rather than focusing on developing specific mathematical skills, students will explore the history and development of our current understanding of number systems, algebra, geometry, probability, and statistics. Additionally, we explore the development of computational technology from clay tablets to supercomputers and look at the importance of cryptography as an historical application of mathematics.

## WORKPLACE MATHEMATICS 11

This course is strongly recommended for students who are planning on entering the workforce directly after high school, or who are planning on pursuing a career in the trades industries. Topics covered may include reasoning, rates of change, measurement, and statistics. Students who successfully master the learning outcomes of this course may continue on to Apprentice and Workplace Mathematics 12.

## FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 11 PREP

This course is designed as a prerequisite to Foundations or Pre-Calculus Mathematics 11. The semester will focus on skill-building and making connections to better enable students to find success in a curriculum-heavy, fast-paced Mathematics 11 classroom. Students enrolled in this course are required to follow-up with either Foundations of Mathematics 11, Pre-Calculus 11 or Workplace Math 11 in their next semester.

## FOUNDATIONS OF MATHEMATICS 11

This course is strongly recommended for students who are planning on pursuing post-secondary studies in the arts or the humanities. Topics studied may include logic and reasoning, functions, geometry, and statistics. Students who successfully master the learning outcomes of this course may continue on to Foundations of Mathematics 12. Students who are planning on pursuing post-secondary studies in math or sciences should take Pre-calculus 11.

## PRE-CALCULUS 11

This course is strongly recommended for students who are planning on pursuing post-secondary studies in math or sciences. Topics covered may include relations and functions, trigonometry, polynomial functions, and graphing. Students who successfully master the learning outcomes of this course may continue on to Pre-calculus 12. Students who are planning on pursuing post-secondary studies in the arts or the humanities should take Foundations of Mathematics 11. Students with less than 60% should consult with their teacher before choosing this course.

## PRE-CALCULUS 11B

Do you LOVE math so much you just can't wait to take another course? Maybe not. But do you want to feel more PREPARED for Pre-Calculus 12? Introducing Pre-Calculus 11B! This course builds on Pre-Calc 11 and will deepen your understanding and proficiency with concepts BEFORE you find yourself facing the challenges of Pre-Calc 12 and Calculus 12. Explore exponential and radical graphs. Review linear relations and the application of functions. Investigate rationales and algebra. Get familiar with the world of trigonometry and become wizards on those graphing calculators. Pre-Calculus 11b will help you to feel for all your future math endeavours.

## FOUNDATIONS OF MATHEMATICS 12

This course involves the study of puzzles, compound interest and investment portfolios, set theory, probability, polynomial exponential logarithmic, sinusoidal functions, and current events in math. This is a course for students who do not need to study Calculus in a post-secondary institution.

## PRE-CALCULUS 12

This course includes the following topics: combinatorics, binomial expansion, composite functions, transformations of graphs, exponential and logarithmic functions, polynomial factoring, radical and rational functions, trigonometry, equations, and identities. This is a course for students who will study Calculus, Science, and engineering in a post-secondary institution.

## CALCULUS 12

Calculus 12 is an optional course offered to those students who are concurrently taking Mathematics 12. This is a course for students going on to university or college so that they will be able to "continue on" with the mathematics required in many programs rather than having to take a "catch up" course to begin their studies. Calculus studies the mathematics involving "rate of change" how one variable changes in relationship to another. The major topics covered are limits, differentiation, functions and their graphs, extreme value functions, trigonometric functions, logarithmic and exponential functions, integration, and applications of differentiation.

## APPRENTICESHIP MATHEMATICS 12

This course is designed to provide students with the mathematical understandings and critical thinking skills needed for entry into most trades and for direct entry into the work force. The core curriculum consists of measurement (metric and imperial), geometry (similarity of triangles and 3D shapes), logical reasoning, workplace mathematics, as well as financial literacy (investments and loans). It will continue to focus on the mathematical processes learned in previous math courses as well as to foster new math skills.

# TIMBERLINE SECONDARY

## SCIENCE

### SCIENCE 10

Is it possible to have red hair even if neither of your parents do? What happens when an acid reacts with a base? Where does energy come from, and how can it be transformed? How was the universe created? Science 10 will answer these questions and more as students engage with topics from the four main branches of science: biology, chemistry, physics, and astronomy. At the end of this course, students will have a better idea of which science they wish to pursue in their grade 11 or 12 year.

### LIFE SCIENCE 11

Explore the amazing diversity of all living things. We will learn about the biggest, fastest, oldest, and oddest organisms, including the trillion or so which live in and on you right now! Biology 11 will require you to do many labs including dissections where we discover the complexity of life, and how living things are inter-related.

### STREAM TO SEA 11 (8 CREDITS)

Which animals link our streams, forests, and oceans together? Is there a way I can do much of my learning outside doing hands on activities? What does it take to be a marine biologist? Could I get some practical work experience and certification that might help me get a job that I really love? All these questions are answered in Stream to Sea 11, a dual credit course where you get a Life Science 11 credit and an elective credit. It will be 2 blocks (for 8 credits) in a row which means more time to dig deeper (literally) into subjects that hit close to home and field trips. We'll study 3 main units: Forests, Streams, and Marine biology. You'll investigate the different plants and animals found in each area; learn about research and job prospects in each field, and you can even try it all out for yourself. Who knows, you might find it's stuff you really love to do and something to pursue for your career! It is an academically rigorous course, but you also need to be excited about being outside. We're looking for positive, enthusiastic learners who are interested in exploring possible futures in biology or just curious about life in our backyards and want to have fun. You need to be ready to work hard inside and outside the classroom. There will be some costs associated with some of the field trips. You can be involved in fundraising throughout the semester to cover any expenses toward the bigger trips and adventures. Space is limited so apply now so you don't miss your chance to have a unique experience!

### CHEMISTRY 11

What a difference an electron makes! You will come to appreciate the truth of this statement as we investigate a wide variety of topics that lay down a broad foundation for future studies in Chemistry. You will be amazed at the intricacies of the atom, wowed by the great lab experiments, and your best friend will become the Periodic Table. Quantitative concepts such as the mole and stoichiometry are also included so that you can keep your algebra skills sharp. A short introduction to organic chemistry concludes this excellent course.

### PHYSICS 11

Top notch content: 1. Motion - How fast can Spiderman swing? How fast can Gandalf fall? 2. Dynamics - Is Superman a fake? Why is an SUV safer than a Smart Car? 3. Energy - How fast does the PNE roller coaster go? 4. Relativity - How can your parents become younger than you? Can Captain Kirk really beam up? You will make waves and you will use sophisticated equipment like spark timers, air tables, and meter sticks.

### THE HUMAN EXPERIENCE 11: PSYCHO-CHEM (8 CREDITS)

In this course we will not only learn about Bunsen burners, chemical reactions, and explosions but also about brain imbalances, behavior, and psychopathy. General chemistry and psychology are covalently bonded in this exploration of the molecules on an external and internal level in our world. This is blend of 2 academic courses offering students 8 credits:

**Chemistry 11:** We are all, in part, a product of our chemical reactions. Upon completion of this course, you will have your requirements for Chemistry 11 while exploring the role of the chemical world and its connection to mental disorders, processes, and behavior as part of the human experience.

**Psychology 11:** Who am I? Together let us explore our own chemical mind and its link to our personality, stresses, memories, aggression, and love through various activities, while applying key psychological principals such as ethics, the scientific method, the brain, and our perceptions.

### EARTH SCIENCE 11

What causes earthquakes and why can't we predict them? What's the deal with climate change? Why are there seashells on the tops of mountains? These are just some of the questions we will explore in Earth Science 11: We will cover Geology, Oceanography, Atmospheric Science, and Astronomy. Earth Science 11 is a course designed for students who are excited by the workings of the natural world around them. Before registering in Earth Science, students should consult with their previous science teacher, counsellor, and parents.

### SCIENCE FOR CITIZENS 11

The relationship between "Science" and "Technology" is introduced to the student in Science for Citizens 11. The technological principles students learn in the classroom setting are applied to labs they perform. Some topics covered include energy, waste management, transportation, communication, health, space, resource management, recreation, and the future.

### ANATOMY AND PHYSIOLOGY 12

Have you ever wondered how you can mix over 100 trillion cells and have them function together as you? The human body is incredibly complex, and in Biology 12 we will explore that complexity in the structure and function of cells, tissues, and organ systems. You will be exposed to traditional style teaching in this offering of Biology 12. It is an academically rigorous course, and you will be expected to have good attendance and work habits to be successful. There will be several labs, a major dissection project and a final exam.

### THE HUMAN EXPERIENCE 12: ANATOMY/PSYCH (8 CREDITS)

Curious about why your heart beats so fast when you get nervous? Wonder why your stomach hurts after eating a bunch of junk food? Do we all struggle with anxiety and depression? This 2-block course is a blend of Anatomy and Physiology 12 and Psychology 12. In combining topics in human biology and physiology with the effects on behaviour, personality and health, students will have opportunities to build academic skills through themed units of study. Anatomy and Physiology 12 dives into the structure of the human body and deeply explores human systems like digestion, circulation, respiration, and others. Psychology introduces a systematic and scientific study of the behaviour and mental processes of human beings. The combination of these courses intends to help you learn about yourselves and others from a structural and behavioural standpoint.

*Science Courses continued next page...*

# TIMBERLINE SECONDARY

## CHEMISTRY 12

Every facet of the Chem 12 course relates to the central concept of Equilibrium. Along the way, we find out why reaction rates are so variable, and how chemical systems attain and maintain balance. We then explore the nature of the equilibria involved in saturated solutions, acid-base systems, and oxidation-reduction reactions. Applications of these topics to environmental problems and industrial situations are also discussed. A sound ability in basic algebra is necessary.

## SPORT SCIENCE 12

Interested in the impact of sport and exercise on human health and performance? Want to know more about how science is used to train athletes to run faster, jump higher and get stronger? In this hands-on senior science course, you will split your time between the classroom, weightroom and other fitness locations. In the classroom, you will explore biochemistry of nutrition, the relationship of exercise with human anatomy and physiology, and the biomechanics of movement in sport (human kinetics). Outside of the classroom, you will apply these scientific concepts by planning and participating in exercise-based labs and strength and conditioning programs and take a deep-dive into analyzing the science of performance for a sport of your choice.

## PHYSICS 12

Content that engages your mind: a study of why the Universe works so well. Vector kinematics: What is the best way to throw a stick for your dog? Vector dynamics: Han Solo should be squashed. Work, energy, and power: Is Wile E. Coyote a fake? Momentum: Love your seat belt. Circular motion and gravitation: Weigh the earth. Electrostatics: Experience 300,000 volts. Electric Circuits: Shocking Power. Electromagnetism and induction: Weigh an electron.

## PHYSICS 12B

Physics 12B is an enriched curriculum that, along with regular Physics 12, is equivalent to a first-year university-level physics course. Topics include Optics (mirrors and lenses), Waves (electromagnetic spectrum and doppler effect), Nuclear Physics (Fission and Fusion), Quantum Mechanics (photoelectric effect and wave/particle duality), Thermodynamics & Fluids (Heat and hydraulics), and Harmonic Motion (Kepler's Laws of planetary motion). Students taking this course must have already taken Physics 12 or will be taking it concurrently. This class is intended for students who are planning on going into a post-secondary science or engineering program.

## SOCIAL STUDIES

### SOCIAL STUDIES 10

Exploration of 20th century history from a Canadian perspective. *This course is a requirement for graduation.*

### COMBINED SOCIAL STUDIES 10 AND ENGLISH 10 (12 CREDITS)

"History will be kind to me for I intend to write it." With its focus on historical and contemporary social, cultural, political, legal, economic, and environmental issues, this literary study will prepare students for their future lives as Global citizens and members of the international community. This course will combine Social Studies 10 and English 10, along with the opportunity to engage in an independent directed study based off the course curriculum. The Social Studies 10 portion of the course will cover a vast amount of information, and the skills students will learn through English 10 will not only prepare them for the Provincial Assessment, but also how to analyze information, concisely convey ideas, and communicate effectively.

### COMBINED ENGLISH 11 OR 12/HISTORY 12, INDEPENDENT STUDY 11 OR 12 (12 CREDITS)

With its focus on historical and contemporary social, cultural, political, legal, economic, and environmental issues, this literary study will prepare students for their future lives as Global citizens and members of the international community. This course will combine History 12 and English 12, along with the opportunity to engage in an independent directed study based off the course curriculum all in the same semester. The History 12 portion of the course will cover a vast amount of information, and the skills students will learn through English 12 will not only prepare them for the Provincial Assessment, but also how to analyze information, concisely convey ideas, and communicate effectively.

### EXPLORATIONS IN SOCIAL STUDIES 11

Social Studies 11 is an exploratory course, providing a taste of 3 of the Socials 12 classes: History 12, Social Justice 12, and Human Geography 12. Our exploration of human issues will focus on a global history of imperialism and colonization, slavery, human and civil rights, social justice, and a study of demographics and modern issues. Essentially, we consider the question: Why is the world the way it is? This course is a combination of traditional and project-based learning, with a focus on learning activities and discussions in class.

### 20<sup>TH</sup> CENTURY WORLD HISTORY 12

There has never been a more important time in History. This course will allow you to study, analyse, and form opinions on current events and the last 100 years of world history.

### PHILOSOPHY 12

Does God exist? How about free will or souls? What is consciousness? Is war ever justified? How about abortion, euthanasia, or torture? What is a just society? In any given situation, how do you determine: what is the right thing to do? How do you know what you know? In this course you will cultivate and refine your critical thinking skills by considering fundamental questions such as these. While the questions hopefully pique your intellectual curiosity, the emphasis is not necessarily on the answers, but on the process of rigorously addressing the possibilities.

### HUMAN GEOGRAPHY 12

How do language, culture, and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, while learning how beliefs and architecture are part of a larger cultural complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environment.

*Social Studies Courses continued next page...*

# TIMBERLINE SECONDARY

## LAW STUDIES 12

What are your rights as a Canadian citizen? Why do some people seem to receive lighter/heavier sentences in our criminal justice system? Learn the facts about the different aspects of law and analyze multi-faceted aspects of cases. Also, students will get opportunities to debate issues and participate in mini and mock trials, using actual Canadian legal cases. Society, cultures, and community attitudes may influence and sometimes conflict with our laws. The law is always a reflection of the values of our society. Decriminalization of marijuana is a perfect example of laws changing to reflect the values and beliefs of the current society. As a Canadian citizen, it is crucial that you understand the basics of the laws in our country. Come join us.

## COMPARATIVE CULTURES 12

Have you dreamed of visiting the great places in history, where generations of people shaped the great civilizations with religion, art, architecture, philosophy, technology, music, and adventure over the past 2500 years? Are you interested in experiencing this study in new and sometimes hands-on way? Are you interested in visiting the Vancouver Art Gallery, or sitting in on a symphony performed by the Vancouver Symphony Orchestra? Are you interested in learning this in a demanding and intellectually challenging course, but one that leads us to a deeper, more sophisticated understanding, not only of our world but ultimately of ourselves? Come span 2500 years from the birth of the great civilizations of the past right to our world of today! Come to Comparative Cultures and Religions!

## BUSINESS EDUCATION

### ENTREPRENEURSHIP AND MARKETING 10

Students will learn: What opportunities exist for entrepreneurs, the characteristics that entrepreneurs share, ways to add value to an existing idea or product, differences between invention and innovation, barriers that various groups of entrepreneurs face, and the factors that contribute to their success, and the life cycle of a product from invention/innovation to marketplace.

### ENTREPRENEURSHIP 12

Students will learn: Opportunities for initiating an entrepreneurial endeavour, characteristics of the global market, personal networking, market analysis, ways to control and manage cash flow and tracking expenses, business registration and taxation, sources of funding and support for a venture.

### LEADERSHIP AND ENTREPRENEURSHIP 12 – A WORLD PERSPECTIVE (8 CREDITS)

Business and leadership in Campbell River, is not the same as business in New York or France or Hong Kong. Business and leadership in our community also holds an Indigenous perspective that leads into many specialized opportunities at college and university as well as in the process of setting up your own business. If you are interested in learning about leadership and business from different perspectives, then this may be the course for you. The focus of this course will be to develop and nurture leadership and entrepreneurship skills. Guided by multiple community and world perspectives, students will learn a variety of leadership skills and strategies. Participants will become

aware of the leadership and business styles of our Canadian Indigenous peoples as well as other world views on business and leadership. Students will spend time in local businesses conducting interviews and being mentored by successful community entrepreneurs. Students will create a product that will be marketed in the class and will research, organize, and host a culturally inclusive conference for local businesses and stakeholders by the end of the course. This course is 8 credits and will give credit for English First Peoples 11 and Entrepreneurship 12.

### ACCOUNTING 11

This is an introductory bookkeeping course that includes: the role of accounting in business, career opportunities in accounting, accounting principles and practices, the accounting equation, the relationship between debit and credit entries, the accounting cycle, using source documents and completing general journals, ledgers and trial balances, the chart of accounts, preparation of financial documents, financial decision making based on financial documents.

### ACCOUNTING 12

Students must have taken Accounting 11 as it is a requirement for Accounting 12. This course carries on the study of Accounting 11 and will include: financial reporting for sole proprietorships, partnerships and corporations, accounting practices and principles, accounting for wages, inventory systems, detailed ledger accounts and specialized journals, account reconciliation, internal controls to protect assets and ensure accuracy.

## CAREERS/WORK EXPERIENCE

### CAREER-LIFE EDUCATION 10

The Career Life Education curriculum is designed to help students learn to effectively manage their life journey toward several possible preferred futures. Through purposeful career-life development, students learn to recognize their evolving interests and strengths, refine their learning goals, and apply this self-knowledge to exploration of post-graduation possibilities in diverse education, work related, and personal life contexts. *This is a mandatory grade 10 course.*

### CAREER-LIFE CONNECTIONS 12

Career-Life Connections 12 is a graduation requirement and includes the completion and presentation of a Capstone Project. *All Grade 12s will be automatically enrolled in the course.* It is delivered outside the timetable through Microsoft Teams. Students will complete a series of assignments relevant to planning for life after high school, as well as develop a culminating project in an area of interest/field related to their future goals. They finish the course by then presenting their Capstone Project to a mentor and reflecting on their experiences throughout the graduation years.

*Careers/Work Experience Courses continued next page...*



# TIMBERLINE SECONDARY

## COMMUNITY ADVENTURES 10/11

It is often said “it takes a community to raise a child.” The other side of that saying might be “It takes a child to enliven a community.” As the keepers of knowledge, our community is a place of learning and experiences. Join Community Adventures 10/11 and apply your math skills in the community receiving credit for Workplace Math 10 or 11. How can you possibly know what you want to do in the future if you never try out the options. Through the 2 blocks of Coop 12A and 12B students will spend time in the community working with such organizations as the Greenways Land Trust, the Volunteer Centre, Teen Flight, individual businesses, schools, and mentors who will expand your knowledge of the community you live in and where your skills and talents lie. This 4-course specialty will also provide you with credit for Career Life Education 10 if you are a Grade 10 student or Entrepreneurship 12 if you are a Grade 11 or 12 student. Join us as we explore how courses relate to community skills and help build networks for the future. *This selection takes up 4 blocks in 1 semester.*

## WORK EXPERIENCE 12A AND 12B

Work Experience 12A and 12B are an opportunity for students to gain work experience while also earning course credits. If you have a part time job, you may be able to use that part time job for credits towards WEX 12A and B. *See your counsellor for details*

## DIGITAL HACKERSPACE

*Timberline's Hackerspace is a vibrant community of students with common interests in computers, technology, art and games. The goal of the Hackerspace is to create hackers, in the original sense of the term: students who can use technical knowledge and creativity to overcome problems with playful cleverness. All Hackerspace courses are run concurrently in a multi-course, multi-grade classroom. Digital artists, photographers, game designers, animators and programmers in Grades 10-12 are in the classroom together, creating great potential for collaboration. Courses are taught in a teacher-guided, self-directed manner through our custom designed online learning platform.*

### 3D MODELLING AND ANIMATION 10-12

Create 3D models, then bring them to life by animating them, or print them on the 3D printer! Learn the principles of box modelling, mesh modelling, rigging, animating, UV mapping and texturing, lighting, and rendering. This course uses Blender, a 3D computer graphics program used for creating animated films, visual effects, art, digital sculpting, 3D printed models, and interactive 3D applications.

### DIGITAL ART 10-12

Develop your creativity, skills and style, and apply the elements of art and design to create powerful images and tell stories with your digital art. Learn how to use a suite of free and open-source software through both guided and self-directed projects, including Krita for digital painting, drawing, and 2D animation, and Inkscape for illustration and graphic design. Get comfortable using a WACOM drawing tablet that is sensitive to the pressure, speed, and tilt of your hand. Draw with a digital pencil, pen, pastel, watercolors, oil paints, or almost any other brush you could imagine. If you're interested in applying to post-secondary art programs, you can build your portfolio of digital creations in this course.

### GAME DESIGN 10-12

Create graphically intense 3D levels or a simple 2D platformer using the Godot Game Engine. Learn about level design, asset creation and scripting so you can create all your favourite kinds of games, including mobile, puzzle, 2D, 3D, FPS, RPG and more!

### WEB DEVELOPMENT 10, COMPUTER PROGRAMMING 11/12

In Web Development, create your own web pages from scratch with HTML, CSS, and JavaScript. In computer programming, you'll learn the basic structures of all computer programs: variables, conditionals, loops, lists, methods, and objects, while creating simple programs and solving coding challenges. Intermediate topics include virtual environments, object-oriented programming, APIs, magic methods, regular expressions, list comprehension, threading, and Django. Advanced programmers will embark on larger projects that suit their passion.

### DIGITAL HACKLAB 11/12

If you think the courses offered in Timberline's Hackerspace all sound interesting, take this course so you can dabble in all of them! Or if you have a specific digital project you are interested in that doesn't quite fit into the other courses, the Hackerspace can provide you with the place, resources, and guidance for you to hack away. Some past project examples include tinkering with the Raspberry Pi to turn it into a multi-media hub for the class, using the Canon Hack Development Kit (CHDK) to install an alternate OS on a Canon digital camera, removing the polarizing filter from a computer monitor and building specialized glasses needed to view the screen. Students have even built a working computer submerged in a fish tank. Explore the digital world!

## DIGITAL MEDIA

### MEDIA ARTS 10-12

“And . . . Cut!!!” Have you ever wanted to say these words? You will if you take Media Arts 10. This course is designed as an introduction to video production work. Students will learn to film, edit, mix audio, lighting, develop scripts, and produce short film segments. This course uses several short assignments to introduce computer editing, cameras, audio equipment, mixing lighting, script development and much more.

### DIGITAL PHOTOGRAPHY 10-12

Learn the rules of photo composition, how to use the settings on a DSLR camera, and how to work with lighting and other photography equipment, to take interesting, creative photos. Find the beauty in small details, capture fleeting moments, and tell a story with your images. While you're at it, why not combine your camera skills with photo manipulation and turn yourself into a zombie?

### MEDIA ARTS 11/12 INDEPENDENT STUDIES

Have you ever wanted to create your own learning path? Well in Media Arts 11/12 IDS you will have this opportunity. After an intense study of a series of media arts skill sets, students will be able explore their own personal passion of film making in the following areas:

Editing for Effect; Extreme Filming; Short Narrative Film (Comedic or Dramatic); Experimental or any combination of these. Freedom to choose individual projects will be provided as well as numerous resources including teacher support, technical support and several filming and editing resources including a drone, dslr cameras, mobile gimbal, 3D camera and 4k gimbal.

Final marks will be determined not only through the creation of final projects but through the learning process itself as well.

# TIMBERLINE SECONDARY

## HOME ECONOMICS

### FOOD STUDIES 10-12

Come explore a wide variety of culinary education topics. Food Studies allows students to learn and apply food preparation techniques that help you become more confident when it comes to preparing food. Opportunities will be provided to practice planning, prototyping and improving recipes while learning basic to advanced cooking skills. Students will work in cooperative groups to discover their culinary potential while developing a curiosity to learn more. Each term of Food Studies explores a variety of culinary topics depending on the season, availability of foods, and current trends in the food industry.

Students will sign up for the respective Food Studies class that corresponds with their current grade level. Students can expect to explore topics such as baking, yeast breads, rice, pasta, protein sources, appetizers, soups, desserts, international foods, ingredient functions, food security, food recalls and much more.

Efforts will be made for students to advance with new techniques, a better understanding of meal planning and nutrition, and improved time management when working in the kitchen. It is hoped that with each completed level of Food Studies, students will leave the course with a more in-depth appreciation of how fascinating and rewarding food preparation can be and recognize how integral it is to our daily lives.

## HUMAN SERVICES AND SOCIAL SCIENCES

### PSYCHOLOGY 11/12 (2024/25)

Psychology is the scientific study of the brain, mental processes, and behaviour. In 2024/25 this course will explore a variety of topics including history and approaches, biology and behaviour, sensation and perception, consciousness, learning, memory, and intelligence. In other years, we cover additional topics including developmental psychology, motivation and emotion, personality, stress and health, psychological disorders, methods of therapy and treatment, research and ethics, cognition, social, and positive psychology. *Open to students in Grades 10-12.*

### PSYCHOLOGY IDS (INDEPENDENT DIRECTED STUDY)

The Psychology IDS course is open to students who have completed a minimum of two Psychology courses (Psychology 11, Psychology 12, THE: Psycho-Chem 11, THE: Anatomy/Psych 12).and would like to continue their study of psychology.

### CHILD DEVELOPMENT AND CAREGIVING 12

This course is all about children: why and how we have them, theories of development and ways to care for them, and how children are raised in different cultures. Students will be placed in an elementary school to provide academic and/or social-emotional support to younger students for part of their program. Students will also experience being a parent of a newborn and participate in an infant simulation project using a RealCare baby for a period of 48 hours. This course is open to students in Grades 11 or 12 and is a great option for students hoping to pursue a path in childcare, education, youth counselling, or health.

### CHILD DEVELOPMENT 12 (INDEPENDENT DIRECTED STUDY)

*For students who have already taken Child Development and Caregiving 12.* Students will develop a personal program in coordination with the teacher to examine areas of interest in the field of child development and complete an extended placement at an elementary school.

## LANGUAGES

### FRENCH 10

Parlez-vous français? Students may look forward to improving their language skills and learning about French culture. While important for university entrance, French 2 also emphasizes the development of an increased proficiency to allow students to travel with a basic understanding of the language. The course also helps students proceed to a level of fluency necessary for increased employment opportunities. Must have completed French 1 or French 9.

### FRENCH 11

Vous voulez parler en français? A challenging course that helps students obtain a second language requirement for university entrance and, better yet, improve speaking and comprehension of Canada's second language, a language that is spoken all over the globe. Emphasis is on listening, speaking, reading and writing. Themes will be centered on sports and leisure activities, health, relationships, school, and the outdoors. Verb tenses, pronouns, and other grammatical structures will be reinforced to help students in their written and oral expression. Must have completed French 2.

### FRENCH 12

Ah Oui!! Je parle français!! By participating in real-life activities, students will develop and enrich their grammar and vocabulary acquired in previous levels. Themes will be focused on travel (le voyage), the arts (les arts), law (la loi), and the environment (l'environnement). Written and oral expression are what we aim to enhance in French 12 by reading articles, prose and poetry by francophone authors, by participating in "les débats" and doing things that we love to do all the while speaking "en français". (Students successfully completing French 12 can be excused from a first-year language in pursuing a Bachelor of Arts Program at university.)

### BEGINNERS ITALIAN AND CULTURE

Learn basic Italian, both spoken and written, and what it is like living and working in Italy. Credit will be given for Italian 10 or Beginner's Italian 11. As part of the study of culture participants will look at architecture and art from Italy as well as religion and how it affected language and culture.

*Language Courses continued next page...*

# TIMBERLINE SECONDARY

## SPANISH 1

¿Quieres hablar español? There are different reasons to join Spanish class: a university requirement, you'd like to communicate while traveling in Spanish speaking country or you'd like to speak another language. In Spanish 1, you will learn how to introduce yourself, talk about likes and dislikes, tell time, learn vocabulary about school, clothing, food, family, and more. As Spanish is the second most spoken mother tongue of the world, your learning will come handy at some point.

## SPANISH 2

Mi clase es su clase. Even if you have never spoken any Spanish you can learn by listening and learning lots of words, simple structures, and trying to express yourself in Spanish, which is the second most spoken mother tongue of the world! Students are expected to appropriately respond to in-class Spanish instruction, participate in spontaneous conversation, read a sight passage orally with correct

pronunciation, as well as write short compositions and do oral presentations. Students will learn greetings and customs, phonetics and the alphabet, counting to 1000, telling time, and the ability to engage in simple conversations. Verb conjugations in the present, past, and imperative tense are also introduced, as are important irregular verbs such as ser, estar, ir and tener. Themes will focus on school, leisure activities, home, and family.

## SPANISH 3

¡Vamos a hablar más y más en español! At the conclusion of Spanish 11 you are going to be able to comprehend (comprender) and speak (hablar) with greater fluency and complexity. Responding appropriately to in-class Spanish instructions, participating in spontaneous conversation, reading orally with correct pronunciation a sight passage, and writing short compositions, as well as presenting projects to the class will become más y más fácil (easier and easier). Even talking about things you are doing today, have done in the past, and plan to do in the future can be done in ¡Español!

## LEADERSHIP

### LEADERSHIP 10-12

Are you interested in making Timberline the best it can be? Then this is for you! Students meet once a week as a group to plan, organize, run, and evaluate community-building activities around the school. Leadership events include Grade 9 Welcome Day, Hallweek, Pep Rally, Holiday Food Drive, and a variety of small group-run initiatives. Students who select Leadership need to be good at group work, time management, and able to be advocates for issues affecting students.

### SPORTS LEADERSHIP 10-12

If you enjoy sports, are self-motivated, and want to be part of a vibrant and dynamic team, this course is for you. Participants will gain valuable experience while meeting the expectations and responsibilities associated with organizing and operating a wide variety of athletic events. Central to the program is the organization and operation of an inclusive intramural program. Students will also assist sports teams and coaches at Timberline and in the larger community. Other responsibilities will involve coaching, tournament organization, score keeping, officiating, planning/operating elementary school events, and organizing/operating Timberline's Athletic Banquet. This is an outstanding opportunity for students to build lasting community connections and load the volunteer section of their resumes! Sports Leadership is a year-long course operating outside the regular timetable with class meetings taking place at lunch and or prior to class in the morning. In addition to this, students are required to complete volunteer work each semester.

## PERFORMING ARTS

### THEATRE 1 (GRADES 10-12)

Previously Acting 10-12, the senior acting class provides students with a creative and supportive outlet on the stage. We focus on opportunities to connect with self and others through dramatic exploration. This course is designed for students who are interested in developing and practicing theatre (and life) skills, such as: voice, movement, stage presence, emotional expression, pantomime, and characterization. We aim to give all students an opportunity to experience many character types through a variety of areas including scripted scene work, choral readings (reader's theatre), monologues, and class productions. No previous experience in drama is needed.

### THEATRE 2 (PERFORMANCE FOCUS)

Theatre 2 is a new course for dedicated performers who have previous theatre experience. This course extends the learning from Theatre 1, exploring acting techniques and character development. The aim is to perform polished pieces in front of an audience multiple times, including a full-length dramatic production in late spring. Some after school rehearsals may be required.

### MUSICAL THEATRE 10-12

A major musical will be performed in the spring. The bulk of rehearsing and preparation for this performance will require an out-of-timetable commitment. Actors will audition for parts. If you wish to be involved in the student pit band, please sign up for this course. If you want to be involved behind the scenes – stage crew, lights, sound etc. sign up for Stagecraft. Auditions are required for this course.

### STAGECRAFT 10-12

Stagecraft is an 'out of timetable' course in which students become the build and run crews for our annual Musical Theatre production. Credit is based on accumulation of hours on tasks such as prop building and set painting, as well as working backstage or in the tech booth doing lights/sound for the show (limited spaces available). If you are looking for an 'in the timetable', lesson directed option, sign up for Technical Theatre.

### TECHNICAL THEATRE 10-12

Technical theatre is a NEW 'in the timetable' course in which you explore all the areas that go into making a production come to life. This hands-on course will teach the basics of set construction, scenic painting, lighting design, sound, the basics of costume design and stage makeup. If you are interested in using these skills to support the annual Musical, you should also sign up for Stagecraft.

*Performing Arts Courses continued next page...*

# TIMBERLINE SECONDARY

## CONCERT BAND 10-12

Ability to play a wind or percussion instrument is a prerequisite as well as completion of a band course or permission of the instructor. Band 9, 10, 11, 12 students should have successfully completed band at the Grade 8 level. Music performed in class and in concert will cover a diverse selection of musical styles, from classical to pop, marches to contemporary. Technique and theory will continue to be developed. Several concerts will be arranged throughout the year and attendance at these functions is mandatory.

## JAZZ BAND 10-12

Students will continue to develop their performance skills in the jazz idiom. Improvisational skills will also continue to be developed. Several concerts will be arranged throughout the year and attendance at these functions is mandatory. Jazz Band is open to Concert Band students with teacher permission.

## DANCE 10-12 INDEPENDENT DIRECTED STUDY (IDS)

Designed to promote flexibility within high school course scheduling, this program is for competitive dancers who dance a minimum of 100 hours over the course of a school year and earns you 4 credits as a fine arts elective course, towards graduation. You are already doing most of the work, just by dancing competitively! Course work requirements include weekly reflective journal entries and 6 - 8 assignments over the course of the semester or school year. These assignments consist of reflections, goal setting and reporting, self/teacher evaluations, a dance performance assignment, and a dance safety assignment. The coursework requirements for this course will take approximately 20 – 25 hours to complete. Dance IDS will be based on the curriculum of the following courses: Dance 10, 11 & 12 Technique and Performance *or* Dance 10, 11 & 12 Choreography *or* Dance 11 & 12 Company.

## PHYSICAL EDUCATION

### PE 10

Having fun while being active is the focus of P.E. 9/10. Students can expect to participate in traditional P.E. activities as well as learning new skills, sports and games. Students will also work to improve their fitness, participate in weekly trail days and take part in fun field trips in the community. Athletic clothing and footwear are required.

### FIT FOR LIFE 10

FIT for LIFE PE is a promotion of life-long physically and mentally healthy lifestyles, wellness, and nutrition. This will be an encouraging and supportive environment focused on more personal choice in physical activity, personal goal setting and engaging in physical pursuits that will last through adulthood. Students will be introduced to several "Fit for Life" style activities that could include weightlifting, aerobics, jogging, walking, trail running, circuit training, swimming, martial arts, or spin classes – based on the personal preferences decided by the students. Exploration of recreational, friendly games with an emphasis on participation in a confidence-building, non-competitive environment will be a part of this course. This will be a very active class, so only choose this course if you enjoy being physically active.

### BASKETBALL ACADEMY PE 10-12

Basketball PE is a course for those basketball enthusiasts who are looking to develop their individual and team skills in a competitive environment. If you seek a PE course with a greater fitness component, more intense competition, and higher expectations—all with a basketball focus—this is the course for you. While we will focus on basketball, students can expect to participate in other PE activities throughout the course. Enrollment priority will be given to those who have displayed dedication to the sport and a positive attitude/work ethic in previous PE courses.

### BASKETBALL PE (GIRLS) 10-12

Girls Basketball PE is a course for basketball enthusiasts looking to develop their individual and team skills in a low-consequence environment. If you like basketball but have been nervous to go out and play on the team this course will help to build your confidence in your skills and knowledge of basketball gameplay. So if you are a student who is just starting out in your basketball journey or have played on the school team for years and just want to take your skills to the next level and prepare for the basketball season, you would be a good fit in this course. (While we will focus on basketball, students can expect to participate in other PE activities throughout the course).

### BODY ZEN (GIRLS) 10-12

If you're looking for an ALL-GIRLS class where the focus is on overall wellness, then Body Zen is for you. This course will take place in a non-competitive and non-judgmental environment, where there is no need to feel self-conscious or discouraged by your level of skill or ability. Physical activities will include yoga, a weekly walk and/or jog, Pilates, video led exercise programs, as well as other activities the class is interested in exploring. Together we will develop body-mind awareness and the ability to nurture your own well-being. Namaste.

### BODY ZEN (ALL GENDERS) 10-12

If you're interested in a course where the focus is on overall wellness & exploring how yoga, meditation and mindfulness can improve your life, then this course is for you.

Yoga movements and poses can help students:

- learn about their bodies
- understand how to move with proper alignment/posture
- improve strength, flexibility and balance
- improve focus and concentration
- help to reduce stress and anxiety levels
- help to deal with challenging situations in and out of the classroom

The course will also include other fitness activities, a weekly trail day, fun games in the gym or outside and field trips in the community. Together we will develop mind-body awareness and the ability to nurture your own well-being. Namaste.

### FITNESS AND CONDITIONING 10-12

Fitness and Conditioning is designed to give students the time, knowledge, and skills necessary to improve their physical fitness levels. Initially, students will work towards developing efficient and safe movement skills. Students will then set personal fitness goals and select or design a program. The principles of fitness, movement principles, components of fitness, and program design will be covered. Finally, the importance of nutrition, rest, and recovery will be covered in relation to fitness and overall health. Students will work on improving all of the fitness components (muscular strength, muscular endurance, cardiovascular endurance, body composition, and flexibility).

*Physical Education Courses continued next page...*

# TIMBERLINE SECONDARY

## FIELDS PE 10-12

Fields PE is a course for those who are drawn to the outdoors. Rain or shine, we will be out on the field learning skills, working on our fitness, and playing a wide array of outdoor sports and games. As we like to say in the PE Department, "There is no bad weather, just poor clothing choices." If you register for this course, be sure that you have warm, waterproof clothing, cleats, and a full change of clothes every day. Units will include softball, football, soccer, ultimate Frisbee, lacrosse, and kickball. We will also take advantage of the Sportsplex facilities on occasion.

## CO-ED PE 11/12

Want to keep fit and have fun? Students can expect to participate in a variety of team and individual sports in a co-ed setting. Working on individual fitness will also be a component of this course. Community recreation activities will take place only if funding is available.

## VOLLEYBALL PE 10-12

Volleyball rocks at Timberline! This award-winning program is aimed at students with a strong desire to play competitive volleyball. Students can expect to learn a variety of skills, strategies, and systems in the sport of volleyball. Knowledge of rules and officiating are included as well as a weekly run. Other P.E. activities, jump training and individual fitness are included in this course. Gym strip, indoor court shoes, as well as outdoor running shoes are required.

## VOLLEYBALL ACADEMY 10-12

This program is designed for experienced volleyball players looking to bring their game to a higher level. We will provide the opportunity to work with Volleyball Canada certified coaches and there will be a fees structure to this course. The details for this program will be provided to students who express an interest in the course.

## HOCKEY ACADEMY 10-12

This Academy is open to players who have experience playing hockey (not for students new to hockey). This is a physically demanding course where both aerobic and anaerobic energy systems are challenged. Tactical and technical sessions will be intense, and a strong level of fitness is required. The Campbell River Storm coaches run each ice session. Students will be on the ice 4 days a week, with one day at the school to complete PE related curriculum, including health, fitness, nutrition, and mental health. There is an application process for this course, so if you are interested, sign up through your course selections, get an application from your counsellor and submit it at the office of your school. There is a fee attached to this course to cover ice time, coaches, jerseys, and transportation costs. All other pertinent information will be outlined in the course application.

## ATHLETE IDS 10-12

This program is for student athletes participating in higher level athletics outside of school. Designed to promote flexibility within high school course scheduling for high performance athletes, this course is aimed at students completing a minimum of 100 hours of training and competition within their sport over the course of a school year, and earns you 4 credits as an elective block, towards graduation. You are already doing most of the work, by competing at such a high level! Course work requirements include weekly reflective journal entries and 6 - 8 assignments over the course of the semester or year. These assignments consist of reflections, goal setting and reporting, self/teacher evaluations, a sport performance assignment, and a sport safety assignment. The coursework requirements for this course will take approximately 20 – 25 hours to complete. The Athlete IDS program will be co-designed with your mentor teacher to help you reach your performance goals.

## TECHNOLOGY EDUCATION

### DRAFTING 10-12

Do you enjoy working with computers, puzzles and problem solving? Drafting is precision drawing used to create an accurate representation of an object. Students create basic shapes right to industry standard projects using drafting and software called AutoCAD. This course is for those interested in careers such as: drafting, engineering, interior design, industrial design, architecture, carpentry, steel fabrication, cabinet making, electrician, plumbing, heating, or any one of the numerous other professions which demand knowledge of drafting.

### ELECTRONICS 11/12

We won't be flying kites in lightning storms or licking 9-volt batteries. What we will do is find out why those are both bad ideas and lots of other interesting aspects of electricity and electronics. You will learn basic theory, the correct use of tools and test equipment, troubleshooting procedures, and soldering techniques, all while constructing electronic projects. Topics will include residential wiring, bread boarding techniques, and building printed circuit boards. We may also explore some basic robotics. In grade 12 you will continue to develop the skills learned in Electronics 11 by constructing more complicated projects and should be able to design circuits from schematic diagrams. By using more advanced test equipment you will be able to troubleshoot more difficult circuits.

### JEWELLERY AND METAL ART 10-12

Jewelry, Christmas tree ornaments, Valentine's Day gifts, artistic metal sculptures for the garden can all be yours. Learn the safe use of metalworking hand and power tools and techniques, such as soldering, welding, brazing, forging, cutting, filing, etc. Projects might include wind chimes, mobiles, candle holders, wine racks, wire sculptures, candle sconces, silver rings, pendants, bracelets, earrings, copper enameled items or etched glass.

### MECHANICS 10

The engines roar, the crowd screams... but only if you fix the carburetor correctly. "What's a carburetor?" you ask. Come find out the answer and lots of other interesting information about chain saws, lawn mower engines, dirt bikes, model gas engines ... we do it all. This is a grade 10 power mechanics course open to grades 11 and 12. The credit will be for TEC 10. Grade 11s and 12s who have already taken TEC 10 may re-take this course with approval of the instructor.

### ROBOTICS 10-12

Head-to-head battles between metal behemoths fighting for supremacy on the field! Well, not quite that exciting, but we will be building robots and having head-to-head competitions to see who built the strongest, fastest, best design. Learn basic theory of electronics, tools and test equipment, programming, basic metalworking and machining, design, and mechanical principles.

*Technology Education Courses continued next page...*

# TIMBERLINE SECONDARY

## WOODWORK 10

Do you enjoy creating something from scratch that you or somebody else can use in everyday life? You will explore different aspects of furniture building and creative woodworking design. Emphasis is on quality work and safe use of various hand tools, power tools and machines. You could make a small table, a laminated serving tray, bowls, and pens on the lathes.

## WOODWORK 11/12

Come down to the woodshop and see what everybody is talking about. We're building projects that you will hang on to for a lifetime. Whether you have taken Woodwork before or not, this course will present fun, new challenges. While building beautiful pieces of furniture, students will be taught how to use all the tools and machines in the shop safely. They will be introduced to basic machine operations as well as some complex machining and jig use. After a couple of mandatory projects, students are encouraged to build their own masterpieces and, if desired, can even cut their own wood from local trees with the sawmill behind the shop! Grade 12's who have successfully completed Carpentry and Joinery 11 are encouraged to challenge themselves in the shop researching, designing, and building a minor and major project of their choice.

## YOUTH EXPLORE TRADES 10-12

Do you plan to live in a house or apartment, or own a car some day? Gain valuable hands-on experience in 4 important trade sectors – Carpentry, Electrical, Plumbing and Mechanics, as well as being introduced to core skills common to many trades. Whether you intend to work in a trade or only want the skills to perform basic repair and maintenance on your own house or car, this is the course for you. During the semester we will build a small building, add some simple wiring for outlets, switches, and lights, and install basic plumbing – a sink and a toilet. Separate from the small building will be a unit on basic mechanics. *The course is one time only and is open to any student in grades 10-12.*

## VISUAL ARTS

### ART STUDIO 10-12

Unleash your creativity through drawing, painting, and graphic arts. Explore a wide range of media, including graphite, charcoal, chalk pastel, oil pastel, watercolour, acrylic paint, collage, printmaking and more. Create original images influenced by a variety of sources including observation, memory, and imagination. Students will be encouraged to develop their personal style through both guided and self-directed projects.

### DRAWING AND PAINTING 10-12

Take your drawing and painting skills to the next level in this course. Explore a wide range of media, including graphite, charcoal, pastel, watercolour, acrylic and more. Create original images influenced by a variety of sources including observation, memory, and imagination. Students will be encouraged to explore their creativity and develop their personal style through both guided and self-directed projects.

### GRAPHIC ARTS 11/12

Build your drawing skills and learn to apply the elements and principles of design to create powerful images and tell stories with your artwork. Develop your skills in illustration, printmaking and graphic design using a range of materials, processes, and technologies. Students will be encouraged to explore their creativity in graphic arts through both guided and self-directed projects.

### ADVANCED ART PORTFOLIO 12

Are you passionate about art? Are you interested in artistic opportunities that await you after graduation - illustrator, graphic designer, painter, fashion designer, photographer, animator...? Your ticket into a post-secondary visual arts program is your physical and digital portfolio. In this course, you will be given assistance in elevating your artistic skills, refining your personal style, and building your body of work - your portfolio. This rigorous self-directed course is limited to 10 students, by approval of the teacher. Students must commit to meeting once a week during lunch for a group critique. Students will also be responsible for creating a legacy piece of work, to be displayed at Timberline for years to come!

### CERAMICS AND SCULPTURE 10-12

Create curious creatures, unique dishes, abstract sculpture and more in this hands-on 3D course. Master the basic techniques of hand-building with clay and then give the potter's wheel a try. Learn how to apply glazes to make your projects look like finished works of art. Make functional ceramics for your kitchen or let your imagination soar – if you can imagine it, you can create it in this class. Other 3D activities may include wire sculpture, found object sculpture, papier-mache, mobiles and origami.

# TIMBERLINE SECONDARY

## OUTDOOR ADVENTURES PROGRAM 11/12

*Outdoor Adventures 11/12 (ODA) Program will take full advantage of the amazing natural world surrounding Campbell River to help each student reach their potential, academically, physically, and globally. This is education through an inclusive program of Outdoor Education, Geography 12, Comparative Civilizations 12, and English 11/12. We schedule seven “away” adventures running from September to February where the students of this course will be involved in their studies in a variety of environments from the classroom to the mountains, from paddling across lakes to rock climbing, winter camping and safety courses. We will also be involved in a number community-based project. It is a student focused one semester course designed for those who seek an adventure in their high school experience. The “Capstone Project” requirement can be met through a personal reflection on any aspect of our outdoor explorations, join up and find out more! For more information, pictures equipment list and “meet the teacher”, Mr. Steve Joyce, please check out the ODA page at the school’s website.*

OUTDOOR EDUCATION 11/12 STUDENTS WILL BE WORKING TOWARDS CREDIT IN THE FOLLOWING COURSES OVER ONE SEMESTER:

### ENGLISH 11 OR 12

Do you like to read for enjoyment or find it a struggle? Interested in exploring the story, narrative, and oral traditions found in western, First Nations and eastern genres? Would you like to but never seem to find the time to just read? Would like to be able to work with a small group to share and understand the role stories play in our lives? Have a chance to construct meaningful personal connections between self, text, and world around us? Well, this English course is the place for you! With our diverse open classroom that include the beaches, forests and mountains in our region, visits to other communities and having the time to focus on reading and writing, you will have the opportunity to grow your understanding of the importance of literature in your life with us. Students will receive the English 11 or English 12 credit required for graduation upon completion of the course.

### COMPARATIVE CULTURES 12

Have you dreamed of visiting the great places in history, where generations of people shaped the great civilizations with religion, art, architecture, philosophy, technology, music, and adventure over the past 2500 years? Are you interested in experiencing this study in new and sometimes hands-on way? Are you Interested in visiting the Vancouver Art Gallery, or sitting in on a symphony performed by the Vancouver Symphony Orchestra? Are you interested in learning this in a demanding and intellectually challenging course, but one that leads us to a deeper, more sophisticated understanding, not only of our world but ultimately of ourselves? Come span 2500 years from the birth of the great civilizations of the past right to our world of today! Come to Comparative Cultures and Religions!

### OUTDOOR EDUCATION 11 OR 12

Timberline has been running outdoor adventure opportunities for over 20 years where our students have explored the backcountry in a wide range of adventures. The ODA takes this to the next level with multiday trips ranging from hiking to the beaches of Cape Scott Provincial Park exploring coastal landforms and local history, paddling Main Lake Provincial Park learning about freshwater resources developing canoeing and trip planning skills. We climb through the forests of the Forbidden Plateau ascending alpine ridges to Mt Albert Edward. We then switch to boat travel so we can visit the Surge Narrows community school on Read Island, visiting families living “off the grid” from Maurelle to Rendezvous Islands. There are also bike trips to Denman and Hornby Islands to explore a world-renowned sculpture park and learn about small community recycling. All these adventures come with extensive training in safe backcountry travel, group dynamics, environmental awareness, leadership, and skills development. We even take the time to learn about equipment design and building. All done in a small class environment.

### PHYSICAL GEOGRAPHY 12

Do you like to see things blow up? Interested how ski hills are created? Interested in exploring mountains, jungles, deserts, and glaciers kilometers high? Do you like to discuss global issues? Want to explore some of the most interesting places to travel? Love / hate getting lost? Like building things? Well Physical Geography 12 is the course for you! Here, science and the humanities meet in a fantastic five-month exploration of the charted and uncharted places on our planet all the while learning how, as humans, fit into this global adventure story. We study locations, environments, resources, and people, locally and internationally. Geography. It’s not just about maps anymore!

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## DISTRICT PROGRAMS

### AQUATIC LIFESAVING PE 10-12

This course is pool-based lifesaving education program that will allow students ages 13+ to develop the essential skills to become successful and confident lifeguards. Students will work towards obtaining all the certification prerequisites (Bronze Medallion, Bronze Cross, and Standard First Aid/CPR) necessary to enroll in the National Lifeguard Course, which students can then take independently when they are aged 15+. In addition to developing strong lifesaving and first aid skills, this course also focuses on providing students with a practical foundation in resistance and cardiovascular training, swimming, stroke-development, teamwork, communication, and leadership skills. Upon completion of this course, students will receive credit for a grade-appropriate PE course along with 2 credits for Lifesaving 11 (upon successful completion of Bronze Cross). This course is being offered in partnership with Strathcona Gardens Recreation Centre and could lead to potential employment opportunities at our community aquatic facilities. There may be a fee (\$40-\$200) associated with this program to cover lifesaving/first aid manuals/certificate fees and transportation, depending on success of grant applications. *Students must be able to swim a minimum of 100m (4 lengths) continuously to register.*

### FIREFIGHTING PROGRAM

Interested in a career in firefighting? Join members of the Campbell River Fire Department and community volunteers to learn about a career in Firefighting and Disaster Risk Reduction. This program is an all-afternoon program 2nd semester. Students will receive credits for Independent Directed Study 12A and Work Experience 12A. Additional credits may be granted for any Work Experience completed outside of the classroom setting. This program takes place in 2nd semester only.

### IGNITE – ATHLETE DEVELOPMENT

This program introduces athletes to high performance training improving their athleticism, physical literacy, and fitness through a multi-sport training program which is complimentary to the needs of their current sport. We introduce key body weight and strength training exercises that form the core of many resistance training programs. Athletes will be introduced to Olympic lifts, running techniques and body movement awareness through the gymnastics component of this program. There is a fee associated with this course and it runs outside of the timetable: 2 mornings and 1 afternoon per week. IGNITE does not satisfy the requirements for PE-10. Course Type: PE elective; co-ed

### CORTES ISLAND ACADEMY

The school district has created a unique pilot project in partnership with the Cortes Island Community Foundation, Folk University, and the people of Cortes Island to provide some high school programming on the island for grade 9-12 students. The Cortes Island Academy offers experiential learning that is place and project-based in four 5-week modules starting in September. The Cortes Island Academy modules will be featured as an option in the 2024-2025 secondary school course offerings and Campbell River, or international students, will be able to billet with families on Cortes Island.

## OUR MODULES (QUARTERS 1 & 2)

### OUTDOOR ADVENTURE LEADERSHIP

*Possible credits: PE, Leadership*

Study adventure tourism, physical fitness, leadership training, trip planning, safety and wildlife interaction, and more!

### OUR OCEANS AQUACULTURE & STEWARDSHIP

*Possible credits: Science*

Study local marine ecology/resources/aquaculture, marine management, scientific research/writing/reporting, and more!

### CARIHI FORESTRY PROGRAM 11/12 (8 CREDITS)

This course includes numerous field trips allowing students to get an up close look at how our forests are managed, maintained, and protected, while earning a graduating science credit. Units covered in this course include, but are not limited to forest management practices, surveying techniques, harvesting procedures, tree & plant identification, and regeneration/planting strategies. Students will be building employable skills using a hands on learning approach. Students will develop skills and acquire a firm understanding of forestry, which could lead to direct employment or entrance into post-secondary forestry programs. In this course, students work with modern forestry equipment and technology working with local forest companies and partnering with the NIC forestry program. There is no student cost associated with this program. However, there is a limited capacity. If you have any questions regarding this program, talk to a counsellor. *Students will receive credit for Environmental Science 11 or 12, and Science for Citizens 11 or Special Science 12.*

### TEEN FLIGHT WORK EXPERIENCE

Be part of the only program in Canada that provides participants with the opportunity to build a two-seater plane, travel and attend air shows, hang out with the Snowbirds, and receive high school credits. If you love to learn about engines and enjoy working with your hands with Work Experience option is available to you. The program takes place Wednesday evenings and Sunday afternoons.

### FILM MAKING WITH REEL YOUTH

*Possible credits: Video Production*

Study technical skill building, creative collaboration, video and virtual production, documentaries, broadcasting, and more!

### CREATIVE TOOLS FOR TRUTH TELLING

*Possible credits: English, Social Justice*

Study basics of journalism, non-fiction writing, oral history, podcasting, fact-based illustration, and more!



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## POST-SECONDARY AND DUAL CREDIT OPTIONS

*Dual Credit options are a way for students to earn post-secondary credits while attending high school. Students will receive grade 12 credits in addition to their post-secondary credits, which count towards fulfilling graduation requirements. Opportunities range from apprenticeship training to 1st year courses that are transferable to most universities. These programs are run through North Island College and can be arranged through the school career facilitator.*

### ENGLISH 116 ESSAY WRITING AND INDIGENOUS PERSPECTIVE (NIC)

English 116 introduces university-level research and writing in the humanities and social sciences and/or natural sciences with specific focus on contemporary Indigenous issues in Canada. Students will critically analyze and study the writing, oral and aural practices of Indigenous scholars and teachers in a variety of disciplines and settings. Emphasis is placed on respecting and interweaving non-Indigenous and Indigenous ways of knowing and research methodologies in writing. Must have a "C" standing in English 12 or First Peoples English 12. Students will be required to purchase their books and pay NISU fees and Learner Resource Fees. SD72 may assist with the cost of tuition. *This program is only available 2nd semester.*

### CRIMINOLOGY 101 INTRODUCTION TO CRIMINOLOGY (NIC)

Criminology 101 is an introduction to the core concepts, basic data sources and general research findings in the field of Criminology. A key focus is on elements of continuity and discontinuity between traditional and contemporary theories of crime, deviance, criminality, and social control. Particular attention is paid to the Canadian context. Students will be required to purchase their books and pay NISU fees and Learner Resource Fees. SD72 may assist with the cost of tuition. This program is only available 2nd semester. Prerequisite is a "C" in English 12.

### BUSINESS 100 (NIC)

This program is a first-year requirement for any student interested in Business courses at the college or university level. The program is an introductory view of financial accounting. Students will be introduced to financial statement preparation as well as how to analyze a financial statement. Prerequisite to get into this program is a C in Pre-Calculus 11 and English 12.

### BUSINESS 132 (NIC)

This program is also a prerequisite for any student heading to a college or university level business course. Prerequisite for this course is a C in Pre-Calculus 11 and English 12. Students will study a variety of topics such as interest, discounts, amortization, annuities, bonds, and capital decision making models.

### TRADES SAMPLER AT NIC: CONSTRUCTION

Not sure which NIC trade to take in your last year? The NIC General Trades sampler is an opportunity to try the following trades: Construction, plumbing, electrical, automotive service, welding, electronics, and heavy-duty mechanics. Students will also receive their First Aid, WHMIS and Forklift training as part of the program. The program is offered 2nd semester and will be completed at the end of April. Students will have the option of undertaking work experience 12A and 12B working for the months of May and June for a total of 20 credits.

### TRADES SAMPLER AT NIC: CULINARY/COOKING/BAKING

Based on the success of the Construction Trades Sampler, North Island College now offers a 3-month full-day trades sampler in cooking and baking. Become work ready in 3 months of focused study in the culinary field. The program is offered 2nd semester only. At the end of April when the program is completed students can complete 2 months of Work Experience, making this program worth 18 Grade 12 credits.

### TRADES SAMPLER AT NIC: AEROSPACE/WELDING

This is the 3rd Trade Sampler offering from NIC. This program is similar to the Construction and Culinary Trades Sampler. Students will spend the entire day at NIC for the months of February, March, and April. The focus of this trades sampler is welding and metal fabrication and the aviation industry. Metal projects will center around building planes as well as hands on opportunities in welding and metal fabrication, electrical and automotive. At the end of April when the program is completed students can complete 2 months of Work Experience, making this program worth 18 Grade 12 credits.

### TRAIN IN TRADES PROGRAMS

*School District 72 is pleased to be in partnership with North Island College and Industry Training Authority. This partnership allows students to attend North Island College Trades Program and get advanced credit through the Youth Train in Trades program, formerly called the ACE-IT program (Accelerated Credit Enrolment in Industry Training). Students, you can save time and money by getting a head start on the technical training for an apprenticeship program while you're still in high school. As a Train in Trades student, you will attend trades training classes at North Island College and receive credits that count towards your high-school graduation. You will also receive at least one level of technical training credit.*

#### YOU CAN APPLY FOR THE TRAIN IN TRADES PROGRAM IF YOU:

- Are in high school.
- Will finish your training within three months of graduating.
- Will be under the age of 19 when you complete the program.

Students interested in accessing the Train in Trades program in their Grade 12 need to plan Grade 10 and 11 academic years carefully. Please contact the school career facilitator if you are interested in more information about ACE-IT.

Current Grade 10 and 11 students--applications for a Trades program beginning in September are due by February 28. Applications for courses beginning in February are due no later than the September prior. Please see the school career facilitator regarding the pre-

requisite for each of these programs and for the applications. Students will be required to purchase their books and pay NISU fees and Learner Resource Fees. SD72 may assist with the cost of tuition.

#### TRADES TO CONSIDER INCLUDE:

- Aircraft sheet metal manufacturing/ aircraft structures
- Automotive service technician
- Carpentry foundation (Comox)
- Cosmetology (Del Rio Academy Courtenay)
- Electrical foundation
- Electronics core
- Heavy mechanical foundation
- Plumbing and piping (Comox)
- Welding foundation
- Professional cook