



EDGE SCHOOL

HIGH SCHOOL PLANNING GUIDE

Academics | Athletics | Character

edgeschool.com

Welcome to High School at Edge

At Edge, we are committed to student success. We are here to support students in making choices that allow them to achieve and to perform at their very best. Edge staff are available to help students achieve their goals and to develop the skills they need to be successful in school and in life.

As a student, there are opportunities to get involved, develop your leadership skills, develop good character, and ultimately be the best-student athlete you can be.

Graduation Requirements

100 credits are the minimum required for an Alberta High School Diploma. Most students earn more than the minimum in order to take advantage of the choices and opportunities available to meet post-secondary education or career requirements. Credits for any course can only be earned once.

[You can see the Alberta Education graduation requirements here.](#)

Courses and Sequencing

Grade 10 course sequence begins with the number 1

Grade 11 course sequence begins with 2

Grade 12 course sequence begins with the number 3

Depending on student academic goals, sometimes the courses students take may not correspond with a student's grade level. As a Grade 10 student, students who meet the requirements may register in a 20-level course. Grade 12 students may take 20-level courses to explore other areas of interest.

How to Stay Informed

Refer to website for more information

[Edsby](#) | [Moodle](#) | [Mountaineer Minute](#) | Student Email – firstname.lastname@ilearn.edgeschool.com

Academic Offerings at Edge

Math (5 credits each, except Math 15 which is 3 credits)

Math 15

This 3 credit course aims to build confidence in students by addressing cross-curricular competencies in the context of mathematics. The course will provide learning opportunities that will develop student competency in knowing how to learn, thinking critically, applying multiple literacies, identifying and solving complex problems, and demonstrating good communication skills. The course will enhance numeracy skills in students, develop their critical thinking and problem solving abilities, and prepare them for Math 10C.

Math 10C

Mathematics 10C is a program designed to provide students with mathematical understanding and critical thinking skills. This program is based on a problem-solving approach that incorporates the mathematical processes, developing a conceptual and procedural understanding of mathematics. Emphasis is placed on developing spatial sense, proportional reasoning, algebraic and graphical reasoning.

Prerequisite – 70% or higher in Math 9, 70% or higher in Math 15

Math 20-1, 30-1

Students will investigate the relationships between relations and functions, and engage in trigonometric topics; students will develop abstract reasoning and visualization skills in a problem solving environment; this stream will prepare students for a post-secondary program that requires Calculus.

Prerequisite Math 20-1 – (To accelerate in Grade 10) – 85% in Math 9

Prerequisite Math 20-1 – 65% in Math 10C (70% recommended)

Prerequisite Math 30-1 – 65% in Math 20-1 (70% recommended)

Entrance requirements for post-secondary institutions vary, so be sure to check post-secondary paths requiring calculus
Math 20-2, 30-2 (5 credits each)

May be offered depending on student interest and need.

The Math -2 route is designed to prepare students for diverse post-secondary programs in health, arts, business, and technologies. Topics include inductive and deductive reasoning, properties of angles and triangles, trigonometry, radicals, quadratic functions, quadratic equations, and proportional reasoning.

Entrance requirements for post-secondary institutions vary, so be sure to check post-secondary path requiring calculus

Prerequisite Math 20-2 – 50% - 65% in Math 9

Prerequisite Math 30-2 – 50% in Math 20-2

Math 31 (5 credits)

Prerequisite or corequisite: Math 30-1

Mathematics 31 emphasizes the theoretical and practical development of topics in the algebra of functions, trigonometry, differential calculus and integral calculus up to a standard acceptable for entry into all first-year programs in mathematics, science, engineering and business. The course is designed to bridge the gap between the Mathematics 10-20-30 course sequence and the calculus course sequences offered by post-secondary institutions.

Prerequisite Math 31 – 80% in Math 30-1 (Or if taking in the same semester as Math 30-1 85% in Math 20-1)

English (5 credits each)

ELA 10-1, 20-1, 30-1, 30-2

The senior high school English language arts program highlights six language arts – listening, speaking, reading, writing, viewing and representing. Students engage all six language arts as they study texts and as they create their own texts in relevant situations for a variety of purposes and audiences. All of the language arts are interrelated and interdependent; facility in one strengthens and supports facility in the others.

Prerequisite English 10-1 – 65% in Language Arts 9 (70% recommended)

Prerequisite English 20-1 – 65% in English 10-1 (70% recommended)

Prerequisite English 30-1 – 65% in English 20-1 (70% recommended)

Prerequisite English 30-2 – 50% in English 20-1 or 20-2

Social Studies (5 credits each)

Social 10-1, 20-1, 30-1, 30-2

Students will examine historical and contemporary aspects and relationships among citizenship, identity, globalization (in 10-1), nationalism (20-1) and ideologies, such as liberalism (30-1), including relationships between ideologies and citizenship.

Prerequisite Social Studies 10-1 – 65% in Social Studies 9 (70% recommended)

Prerequisite Social Studies 20-1 – 65% in Social Studies (70% recommended)

Prerequisite Social Studies 30-1 – 65% in Social Studies 20-1 (70% recommended)

Prerequisite Social Studies 30-2 – 50% in Social Studies 20-1 or 20-2

Science (5 credits each)

Science 10

Students are introduced to biology, chemistry, physics, and global energy systems. Successfully completing Science 10 allows students to choose from Biology, Chemistry, or Physics at the 20-level, depending on student interests, abilities, and goals.

Prerequisite 50% in Science 9

Science 20

This program emphasizes the key concepts of science: energy, matter, change, systems, diversity and equilibrium. Science 20 is designed for those students who are interested in areas such as humanities, law, arts, journalism, or commerce where they want a general overview of all three science disciplines.

Prerequisite 50% in Science 10

Science 30

This program sequence provides students with a unified view of the biological, chemical, physical and earth sciences and an awareness of the connections among them. Science 30 is accepted for entrance into university and post-secondary programs. It is a great course sequence for students who are looking to enter programs in Bachelor of Arts or Business areas.

Prerequisite 50% in Science 20

Biology 20, 30

- engage in examining interactions of living systems with each other and their environment.
- Biology 20 emphasizes energy and matter exchange.
- Biology 30 focuses on adaptation and change in biological systems.
- enhance scientific literacy and prepare students for post-secondary programs.

Prerequisite Biology 20 – (To accelerate in Grade 10) – 85% in Science 9

Prerequisite Biology 20 – 65% in Science 10 (70% recommended)

Prerequisite Biology 30 – 65% in Biology 20 (70% recommended)

Chemistry 20, 30

- engage with the study of matter and its changes in the natural and industrial worlds.
- enhance scientific literacy and prepare students for post-secondary programs.

Prerequisite Chemistry 20 – (To accelerate in Grade 10) – 85% in Science 9

Prerequisite Chemistry 20 – 65% in Science 10 (70% recommended)

Prerequisite Chemistry 30 – 65% in Chemistry 20 (70% recommended)

Physics 20, 30

- Engage in the exploration and analysis of the interactions between matter and energy.
- Understand the physics behind the forces that cause motion and the motion of objects.
- Explore the interactions between both celestial giants and subatomic particles.
- Reveal the physics behind natural events and advancements in technology.
- Enhance scientific literacy and prepare students for post-secondary programs.

Prerequisite Physics 20 – (To accelerate in Grade 10) – 85% in Science 9

Prerequisite Physics 20 – 65% in Science 10 (70% recommended)

Prerequisite Physics 30 – 65% in Physics 20 (70% recommended)

Physical Education 10, 20, and 30 are mandatory courses at Edge School (5 credits each)

Physical Education at Edge School supports students in acquiring the skills to enhance a student's quality of life through active living and exposure to a wide variety of movement activities. Students will be equipped with a working knowledge of the rules and skills required in a variety of group and individual activities. Fair play, cooperation, self-discipline and sportsmanship will be promoted towards students becoming lifelong, physically active individuals who value and maintain a health-enhancing level of wellness, while working towards becoming experts in their own sport.

Prerequisite Physical Education 20 – 50% in Physical Education 10

Prerequisite Physical Education 30 – 50% in Physical Education 20

Leadership, Character and Social Responsibility 15, 25, 35 (5 credits each course – mandatory)

Leadership, Character and Social Responsibility is a mandatory program for Edge high school students. These courses are tiered from Grade 10 to 12, and focus on the development of character development and leadership skills in the context of social responsibility. Through guided opportunities students will develop skills in collaboration, critical thinking, problem solving, managing information, creativity and innovation, cultural and global citizenship, communication, and personal growth and well being. At Edge, the rigorous pursuit of both academic and athletic excellence are ideal vehicles for character development. Using the guiding principles – Leadership, Character and Social Responsibility which form the foundation for Edge School character development and shape our expectations for behavior at all times for behavior at all times.

Prerequisite Leadership, Character and Social Responsibility 25 – 50% in Leadership, Character and Social Responsibility 15

Prerequisite Leadership, Character and Social Responsibility 35 – 50% in Leadership, Character and Social Responsibility 25

Career and Life Management CALM (3 credits)

Career and Life Management (CALM) enables students to make well-informed, considered decisions and choices in all aspects of their lives and to develop behaviours and attitudes that contribute to the well-being and respect of self and others, now and in the future. CALM is the core course for health literacy at the senior high school level in Alberta.

Students will be able to apply an understanding of the emotional, psychological, intellectual, social, spiritual, and physical dimensions of health. Students will learn responsible financial decision-making skills to reflect students values and goals and to demonstrate commitment to self and others. Students will be able to apply strategies to manage personal wellness and lifelong career development.

CALM is offered in conjunction with Sports Medicine (3 credits in each course for a total of 6 credits)

Complementary/Option Courses

Learning Strategies 10 (3 credits)

Curriculum is organized to assist students in becoming actively involved in their learning. Modules of completion lead students to take greater responsibility for homework, develop planning skills, study skills and learn how to evaluate their learning process. It includes developing an understanding of themselves as learners, increasing their ability to become organized, managing human and material resources, planning long - and short - term goals, and practicing self-advocacy skills.

Yoga 15 (3 credits)

This course will safely introduce students to the basic postures, breathing techniques and relaxation methods of yoga. It will also introduce students to the historical roots of yoga and give them an understanding of basic anatomy and physiology as it applies to this discipline. Students will develop an enhanced appreciation for, and acceptance of, their own body and its limitations. Students will learn to be non-judgmental about their own, and others', yoga practices. The program is designed to allow students to experience the benefits of increased flexibility, strength, focus and concentration. They will relieve stress, learn to relax at will, and experience the health benefits of yoga.

Personal Psychology 20 (3 credits)

Personal Psychology 20 is designed to develop student skills and understandings that make it possible for more effective living in our complex environment. The student's attention will focus on the scientific approach to understanding human behavior so they may appreciate more fully the reasons that underlie one's own acts and those of others.

Spanish 10 (5 credits)

Learning a language empowers students to think, and speak in diverse cultural settings and to move from one cultural setting to another with confidence. Depending on post-secondary program requirements, a second language may be a prerequisite, approved, or recommended course.

Sports Medicine 15 (3 credit)

Sports Medicine introduces students to sports injuries, athlete health and wellness, first aid, and human anatomy and physiology. It is a complementary course available to students and would be particularly beneficial for any student interested in athletic training.

Other

Distance Learning and Language Course Challenge: Please see the guidance counsellor for guidelines and registration instructions.

Online Social Science Courses

These courses are at the 30 level. There are no prerequisites and no Diploma exams. Many students who are planning to go to the US to school use these courses for NCAA eligibility and University admission.

Experimental Psychology 30 (3 credit)

Expands research and data analysis skills using methods situated within the field of psychology. Inquire into issues of importance to psychologists and design a research project.

Applied Sociology 30 (3 credit)

Learn how sociologists practice their discipline within an everyday context with a focus on societal and personal issues. Consider the influence of social movements of cultural change.

Western World History 30 (3 credit)

Use methods of inquiry to understand, analyze and evaluate historical data and information effectively. Apply these methods of inquiry to the significant historical events and concepts that shaped the development of Western Europe.

World Geography 30 (3 credit)

Understand and identify elements of physical geography as they relate to patterns of population and settlement. Learn about how human settlement and the utilization of natural resources have impacted the Earth.

School Calendar and Student Schedule

[Click here to access our school calendar and to see our daily schedule.](#)

Post-Secondary and Scholarships

- All post-secondary information and updates will be posted in the Mountaineer Minute.
- Individual meetings for Grade 12 students are scheduled to assist students with post-secondary planning and University application information.
- Students are encouraged to attend University recruiter visits at Edge.
- Edge graduates are encouraged to apply for the [Alexander Rutherford High School Achievement Scholarship](#). This scholarship recognizes and rewards academic achievement at the senior high school level and is meant to encourage students to pursue post-secondary studies. Apply once official high school transcript marks are available and when students are enrolled in full-time post-secondary studies.



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