

Flex ED SUMMER SCHOOL
Course Descriptions, Pre-Requisites,
Required Supplies & Departmental Exam
Information

LEVEL 10 COURSES

ELA B 10

Students will study plays, novels, short stories, and poems in a manner that reflects internally and externally to the world around them. The course focuses on justice, diversity, community, fairness, and the individual.

Materials Needed:

- *All Creatures Great and Small* by James Herriot (Memoir)
- *MacBeth* by William Shakespeare (Long Play)
- *Jurassic Park* by Michael Crichton (Novel)
- *Ender's Game* by Orson Scott Card (Novel)
- *A Raisin in the Sun* by Lorraine Hansberry (Long Play)

**books are supplied by the school with a \$50 deposit (if books are returned by August 14, 2023, the deposit is refunded). More details will be provided to students when registration is approved for this course.

History 10

The History 10 course goes through historical events in the 18th, 19th, and 20th centuries. It encompasses beliefs and governances from the feudal paradigm to Europe in 1914. We discuss major events such as: the French Revolution, Industrial Revolution, different ideologies that affect us today, imperialism and why WWI started.

Information Processing 10

Information processing is the acquisition, recording, organization, retrieval, display, and dissemination of information related to computer-based operations. In Information Processing 10, you will learn about task management, information processing in the workplace, digital citizenship, digital communication, digital law, keyboarding, word processing, computer technology, operating systems, spreadsheets, databases, graphic design, and presentation design. You will take a deeper dive into refining your computer skills to be prepared for the workplace and to ensure that you are using technology properly.

Science 10

Science 10 will cover climate, ecosystems, chemical reactions, forces and motion, as well as a career exploration. Materials needed for the course are litmus paper (store bought or homemade), vinegar, baking soda, thermometer, measuring tape, and a stopwatch.

LEVEL 20 COURSES

Creative Writing 20

Creative Writing allows you to 'make things up'. You will use your imagination and invent the impossible and go places you never thought you would go.

ELA 20

ELA 20 explores personal identity and growth, covering themes like how our past shapes our present, the role of family in identity and belonging, how obstacles and challenges lead to personal growth, and life's inevitable passage of time through which we evolve and change. Students will study and reflect on these themes through novels, a play, short stories, and essays as they develop skills in creative writing, essay research and writing, and oral speaking through performances of their written work.

Prerequisites: ELA A10, ELA B10

Materials Needed:

- *To Kill a Mockingbird* by Harper Lee (novel)
- *Someday* by Drew Hayden Taylor (long play)
- *Something for Joey* by Richard Beck (novel)
- *Keeper'n Me* by Richard Wagamese (novel)
- *I Am Hutterite* by Mary-Ann Kirby (novel)

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Environmental Science 20

Environmental Science 20 studies the impact humans have on the environment and how we can move towards a more sustainable future, both personally and collectively. Topics covered through the course are the atmosphere and its impact on human health, aquatic ecosystems, and terrestrial ecosystems. Students will conduct experiments, write lab reports, do independent research, and show their learning through visual presentations, as well as create a final project of their choice.

Prerequisite: Science 10

Materials Needed:

- **Filtration Mask Experiment:** ½ cup flour, household items to make a filtration mask (these will depend on the type of mask the student chooses to make based on the internet instructions they find)

- **Clean-up Simulation:** cooking oil and one from each list:

1. Coffee filter, shirt, pantyhose, or other cloth
2. Dish soap, laundry detergent, hand soap, or shampoo
3. Sawdust, sand, or cat litter

- **Water Quality Testing:** water quality testing kit (can be purchased at a hardware store)

- **Ecosystem In a Jar:**

- large glass jar with lid that seals tightly
- pebbles or stones (enough to fill 1-2 inches of the jar)
- ½ cup charcoal
- potting soil (enough to cover your plants' roots)
- one to three plants (depending on the size of your jar)

Health Science 20

Health Science 20 explores the origins of Western medicine and compares it with traditional medicine, asking students to consider how both approaches can be combined to provide holistic healthcare. Other topics include medical ethics, the human body, and nutrition; as well, students will complete an in-depth study on a disease of their choosing.

Prerequisite: Science 10

History 20

We start out History 20 studies with World War I, its causes, major battles, weapons development, important political outcomes, famous people. We end our study with the global implications of the major battles and the need for world peace and human rights.

Life Transitions 20

In Life Transitions 20, you will learn about life transitions, personal self-knowledge, relationships, time management, career self-knowledge, life balance, and much more. You will set goals and make Action Plans to achieve your goals. You will need to have at least one person who can be your mentor for your action plans.

Physical Science 20

Physical Science 20 will cover heat, chemistry basics, waves, a career study, as well as a student directed project.

Prerequisite: Science 10

Materials Needed: food coloring, powdered drink mix, 5% iodine, laundry starch, and 500mg vitamin C tablets.

Psychology 20

This course is based on Social Psychology and helps students how their social world influences their views and feelings about themselves. It also introduces students to research methods, and major theoretical perspectives in Social Psychology.

LEVEL 30 COURSES

Biology 30

Biology 30 will cover evolution, taxonomy, cells, genetics, biotechnologies, as well as a student directed project.

Prerequisite: Health Science 20 or Environmental Science 20

Materials Needed: Foldscope or microscope, toothpicks, onion, methylene blue, iodine, if using a microscope – glass slides and slide covers, yeast, sugar, and a ruler/meter stick.

A PROVINCIAL DEPARTMENTAL EXAM IS REQUIRED for this course:

Wednesday, August 9/23 from 1:00 – 3:30 p.m.

Chemistry 30

Chemistry 30 will cover chemical bonds and materials, chemical equilibria, electrochemistry, as well as a student directed project.

Prerequisite: Physical Science 20

Materials Needed: salt, sugar, magnifying glass or microscope, thermometer, scale, and litmus paper (store bought or homemade).

A PROVINCIAL DEPARTMENTAL EXAM IS REQUIRED for this course:

Friday, August 11/23 from 1:00 – 3:30 p.m.

ELA A30

The goal of ELA A30 is to help students understand and appreciate language, and to use it confidently and competently in a variety of situations for learning, communication, work, life, and personal satisfaction. The course involves themes focusing upon Canadian literature and society and the Canadian experience, using various contemporary and traditional grade-appropriate texts in a variety of forms (oral, print, and other media) from First Nations, Métis, and other cultures.

Prerequisite: ELA 20

Materials Needed:

- *The Secret Lives of Sergeant John Wilson* by Lois Simmie (non-fiction)
- *Billy Bishop Goes to War* by John MacLachlan Gray and Eric Peterson (play)
- *The Stone Angel* by Margaret Laurence (novel)
- *Tamarind Mem* by Anita Rau (novel)

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A PROVINCIAL DEPARTMENTAL EXAM IS REQUIRED for this course:

Wednesday, August 9/23 from 9:00 – 11:30 a.m.

ELA B30

The goal of ELA B30 is to help students understand and appreciate language, and to use it confidently and competently in a variety of situations for learning, communication, work, life, and personal satisfaction. The course involves themes focusing upon human concerns in a global society, using various contemporary and traditional grade-appropriate texts in a variety of forms (oral, print, and other media) to provide a global perspective.

Prerequisite: ELA 20

Materials Needed:

- *Hamlet* by William Shakespeare (play) – included in lesson instruction
- *Death of a Salesman* by Arthur Miller (play)
- *Wouldn't Take Nothing for My Journey Now* by Maya Angelou (non-fiction essays)
- *Nectar in a Sieve* by Kamala Markandaya (novel)

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A PROVINCIAL DEPARTMENTAL EXAM IS REQUIRED for this course:

Tuesday, August 8/23 from 9:00 – 11:30 a.m.

Financial Literacy 30

This course is a more in-depth look into the world of personal finance. It covers topics such as home ownership; debt management, including bankruptcy; purchasing and leasing property including vehicles; and planning for the future (e.g., retirement planning), all of which contribute to strong lifelong financial wellbeing.

History 30

History 30 consists of 4 units of study intended to provide students an understanding of important events that impacted Canada during the 20th Century: First Nations Societies, The Fur Trade, War and Conquest, and Rebellion in Canada.

Interior Design and Decorating 30

Students will explore the creative, client-focused nature of solving interior design and interior decorating problems while learning about how to apply elements and principles of design to solve client problems in residential and commercial settings.

Life Transitions 30

In Life Transitions 30, you will learn about life roles, health self-care, conflict in relationships, money management, career planning, independent living, parenting, and searching for a job. You will set goals and make Action Plans to achieve your goals. You will need to have at least one person who can be your mentor for your action plans.

Physics 30

Physics 30 explores modern physics; forces and motion; Conservation Laws; electric, magnetic, and gravitational fields, as well as a student-directed study of their choosing. Physics 30 requires critical thinking and problem-solving skills as students work through theoretical and hands-on inquiry.

Prerequisite: Physical Science 20

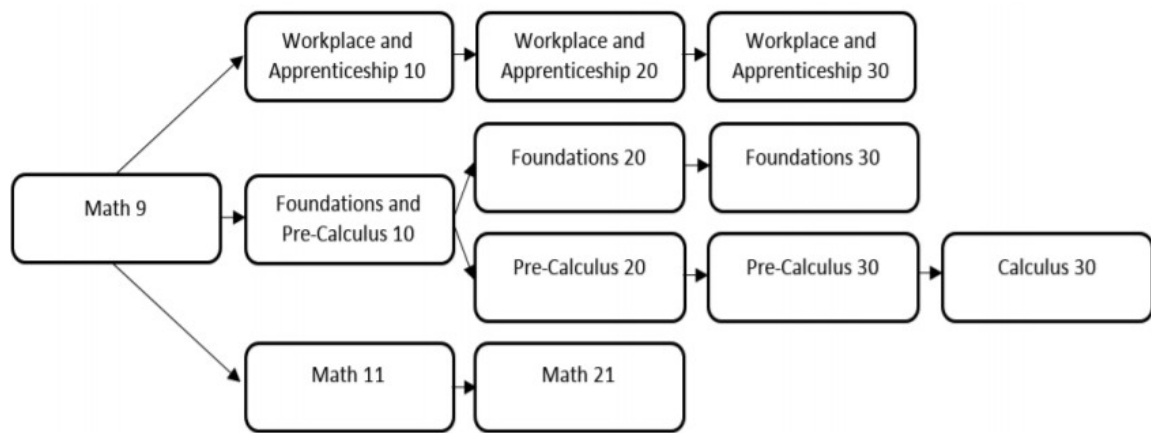
A PROVINCIAL DEPARTMENTAL EXAM IS REQUIRED for this course:

Thursday, August 10/23 from 1:00 – 3:30 p.m.

Psychology 30

This course is based on Developmental Psychology, and helps students understand how and why humans develop as they do. It also investigates the stages of development from infancy through childhood, adolescence, adulthood, and old age.

MATHEMATICS



Science Pathways Framework

