



## Option Course Description

2020/2021

**Note: Some Courses will only run if there are enough students interested and/or we have staff and resources available.**

### **Aboriginal Studies 10/20/30**

The course is based on perspectives and worldviews of Aboriginal peoples. It includes the study of traditions and history of Aboriginal peoples in Canada, and particularly in Alberta. Student learning outcomes provide opportunities to examine such topics as governmental structures, literature, the arts and the sciences.

### **Autobody 10/20/30**

Students will need to have taken Mechanics in grade 10 to have the prerequisites for this course.

Students will learn how to

- assess body damage and repairs needed
- figure out cost involved in damage repair
- safely use tools and chemicals involved with the repair of auto body panels
- repair damaged body panels from start to finish
- how to use the tools involved with body repair and painting
- fit and weld body panels
- prep and paint
- perform custom multicolor and multi tone paint jobs as well as clear coat effects
- clean and detail, wet sand and polish

Depending on student interest and ability there is an opportunity to learn how to airbrush and pinstripe.

### **Art 10/20/30**

Students complete projects in a wide range of media such as drawing printmaking and sculpture

Advanced Art

Students can further their Art foundational knowledge by specializing in Drawing 15/25/35, or Painting 15/25/35

### **Drama 10/20/30**

An introductory course intended to develop poise, self-confidence, self-control, and the ability to react to an audience. The course concentrates on basic acting technique through theory and practical application. Self-discipline is stressed as the key to drama success. Such topics as concentration, believable action, emotional response, and basic movements are covered. Appreciation for drama as an art form and leisure time activity is stressed.

### **Film Appreciation 15/25/35**

This course offers students an opportunity to view and respond to a variety of films with the aim to increase their knowledge and awareness of film, with a focus on film history, genre, and film techniques. Students will explore film from both an artistic, as well as a technological perspective. This course is designed to provide students with an introductory ability to analyze film and to foster critical understanding. Information is provided on the variety of post-secondary and career opportunities in film, and will serve as an excellent basis for those interested in pursuing the study and vocation of film beyond high school. (5 credits).

### **Cosmetology 10**

Students learn basic hair care and styling.

### **Cosmetology 20/30**

Students begin more advanced hair care including chemical texturizing, coloring and decolorizing. During the second half of Cos 20 students are introduced to client services. Cos 30 extends the customer service aspect and introduces students to more advanced hair care techniques. \*\* Note students need to take 2 blocks of Cos 20/30 in a semester due to the nature of the learning activities

### **Foods 10/20/30**

Students do both paperwork and food preparation. They are expected to follow safety and sanitation protocols and be able to explain them. In Foods 10, students examine food basics such as hygiene and basic kitchen skills as well as equipment and its uses. They also learn about nutrition, meal planning, economics and complete preparation of a variety of foods. They also compare nutritional values, taste and costs of homemade versus convenience and fast foods. As they progress to Foods 20/30 they look beyond consumption to production, visual appreciation and improve their knowledge of economic and nutritional preparation of food.

#### **Mechanics 10/20/30**

A hands-on class in our Mechanics lab wherein students will learn basic tool use and small engine studies.

#### **Fabrication 10/20/30**

A hands on class in our Welding Lab wherein students will learn basic Welding skills.

#### **Construction 10**

Also called Woodshop 10, this introductory course introduces students to all aspects of woodworking. Three distinct sections make up the course including hand tool use and applications, residential framing techniques, and finally a furniture building focus. All three sections are project based with assigned projects to introduce as many techniques to students in the time allotted for rapid skill development. There is a focus on safety and correct tool use as Woodshop 10 is the prerequisite class for all following courses. The course assumes no prior knowledge or classes in the area.

#### **Construction 20/30 --Furniture Making and Joinery Focus**

An introduction to the knowledge and skills required to construct cabinets and fine furniture using recognized, traditional trade practices and new technologies. Upon completion of the course, using woodworking production equipment and hand tools, you will be able to lay out, calculate, cut, machine, assemble and finish preparation of a cabinet or a piece of fine furniture. There will be an emphasis on hand tools, complex joinery, and design factors in furniture. Accuracy, precision, patience, and building of skills are essential factors in this course stream. An assigned project will guide students through necessary skill sets to advance their knowledge of joinery and furniture making.

#### **Construction 20/30--Residential Framing and Construction Techniques Focus**

The Residential framing and Construction program provides you with a knowledge of woodworking machines, blueprint reading, sketching, safe working practices, framing, interior and exterior finish and sustainable construction techniques. Students study theory and applications of safety, building codes, blueprint reading and energy efficiency and procedures needed to enter related occupations. You will learn the safe and proper use of hand and power tools and woodworking machines. You will develop practical skills in framing, roofing, and surveying. There will be an emphasis on the use of framing squares for all aspects of layout including rafters. Students will be taught to think in pitch as opposed to degrees for residential construction.

#### **Communication Technology (Comm Tech)10/20/30**

This course is a project-based class with four major units: Photography, Digital Processing, Filmmaking and Animation. Each unit fulfills the outcomes for one and a half courses from the Media, Design and Communication Arts cluster of the Career and Technology Studies (CTS) curriculum.

Introduction to Photography & Digital Processing - Students learn the fundamentals of photography and digital processing including the following topics: Camera Theory, Exposure, the Elements and Principles of Design, Digital Processing and Portfolio Presentation. Students will practice their skills by completing a variety of photographic assignments. Each week students submit photographs for peer critique. At the end of the unit, students will submit a digital portfolio representing their best work.

Introduction to Filmmaking & Animation - Students learn the fundamentals of digital filmmaking & 2D animation including the following topics: Cinematic Storytelling, Character Design, Animation Principles, Pre-Production, Production, Post-Production and Presentation. Each student begins the filmmaking process by creating an original short film of his or her own with a duration of two to three minutes. Students will then create a character and bring it to life in an original short animation. All films are showcased to the class, and the best work may be presented to the school and community.

#### **French 10/20/30**

Introduction to French language—basic greetings, vocabulary and verbs. Students will be able to communicate in simple sentences, describe objects and ask questions while learning about the French culture.

#### **Recreational Leadership (Sports Performance) 10/20/30**

A fitness based program designed to promote elite performance in athletes. While there is a physical component, the focus is on the elements of athletic performance such as nutrition and injury management.

#### **Firefighting 20**

Understanding basic concepts including, Fire Behavior, Firefighting Skills, Equipment, Search & Rescue, Fire Extinguishers, and Performing Basic Firefighting Skills. Students must have their Learner's Permit.

#### **Leadership 15/25/35**

Leadership skills for personal development through activities and projects at the school and in community. Areas of focus: Servant leadership, Communication skills, Effective leadership, Intrapersonal/Interpersonal management, Analyze and resolve practical problems

#### **Forensic Science 25 and 35**

Forensic Science 25/35 are two three-credit course intended for students interested in the use of basic scientific concepts and technologies to solve crimes. Through the study of forensic science techniques, students are given opportunities to explore and understand further how basic scientific concepts apply to this field of study. Contrary to popular opinion, forensic science is not an independent field of science. Rather, it uses basic scientific concepts and techniques from various scientific fields such as biology; chemistry; physics, anthropology; entomology, toxicology, and psychology to analyze and interpret evidence gathered during crime scene investigations. Forensic science is a valuable component in many complex police investigations. A central component of the course involves the analysis of realistic scenarios and case studies. The course has mature subject matter, and controversial or sensitive components including

The examination of illegal drug abuse

The use of firearms

The analysis of arson and explosives

The study of deviant behavior

The study of photographs of human remains

Forensics 25 has six modules:

Module 1: Types of Evidence and Fingerprint Analysis

Module 2: Trace Evidence

Module 3: Body Fluid Evidence

Module 4: Forensic Detection of Impaired Driving

Module 5: Forgery, Fraud and Polygraphy

Module 6: Forensic Genetics

Forensics 35 has six modules:

Module 1: Forensic Toxicology

Module 2: Law Enforcement Equipment and Police Canines

Module 3: Arson and Explosives

Module 4: Forensic Ballistics

Module 5: Criminal Profiling

Module 6: Anthropology and Forensic Entomology

#### **Psychology: Personal Psychology 20 & Abnormal Psychology 30**

The first part will examine elements of personality from different theoretical perspectives. In addition, the following concepts will be examined: human intelligence, biological factors, and the way we perceive our environment.