

ÉCOLE OLDS HIGH SCHOOL COURSE HANDBOOK 2020-2021



École Olds High School
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ÉCOLE OLDS HIGH SCHOOL

Mandate

“To ensure that École Olds High School provides educational opportunities that enable students to become responsible and productive members of society.”

Mission

“To foster learning in a safe, challenging, and diverse environment.”

Vision

École Olds High School offers a vital educational program. We are committed to:

1. Reinforcing the values of honesty, integrity, and respect for self, others, and property.
2. Providing a progressive environment with a choice of educational programs that motivate students and staff to meet their individual potentials as lifelong learners.
3. Recognizing the importance of personal responsibility and mutual accountability by students, staff, and parents in the educational process.
4. Offering dynamic curricular and extra-curricular opportunities in a disciplined setting.
5. Nurturing a co-operative relationship between the school and the community.
6. Using technology effectively to support learning and communicating.



INTRODUCTION

This booklet has been assembled to provide students and parents with some basic information that may help in selecting the most appropriate courses for a viable high school program. Diploma requirements for each year of your program should be considered carefully. It is expected that 40-42 credits be taken both in grade ten (10) and in grade eleven (11). This will provide the necessary foundation of prerequisites as well as allowing for some flexibility in the selection of courses for the grade twelve (12) year. In grade twelve (12), a minimum of 30 credits should be taken. Grade twelve (12) students must be enrolled in at least 30 credits at Olds High School to be eligible to participate in the graduation exercises.

Career High Policy– Occasionally students are unable to fit a course into a timetable because of a course conflict or the need to complete a failed course. Decided on a case by case basis, the Principal may grant approval for such students to take a course at the Olds Career High School. If the student is able to fit the course into their schedule at Olds High School, permission to take the course at the Olds Career High School may not be granted.

Parents and students should discuss course choices before the pre-registration form is completed and submitted. The decisions made will directly influence future course eligibility and indirectly even career possibilities following high school. The course offerings for next year are directly linked to the information gathered from these forms.

Our school is committed to providing a course offering that can best serve the needs and interests of our students while maximizing the utilization of our staff expertise. Please consider the diploma requirements and the course descriptions herein cautiously. If you have questions or concerns, call us at (403) 556-3391. Final registration will happen in late April. Working copies of the course registration forms are included in this booklet and should be prepared in consultation with parents before the final registration date. Students need to come to the registration process prepared. Should you have questions about your program, make an appointment to see the Guidance Counsellor before the registration day.

ALBERTA HIGH SCHOOL DIPLOMA REQUIREMENTS

To earn an Alberta High School Diploma, a student must:

- earn a minimum of 100 credits.
- meet the standards and complete the following courses:
 - English 30-1 or 30-2
 - Social Studies 30-1 or 30-2
 - Mathematics 20-1(Pre-Calculus), Mathematics 20-2 (Foundation) or Mathematics 20-3 (Apprenticeship)
 - Science 20 and/or Science 24 and/or Biology 20 and/or Chemistry 20 and/or Physics 20
 - Physical Education 10 (minimum 3 credits)
 - Career and Life Management (CALM - 3 credits)
 - 10 credits, in any combination, from Career and Technology Studies (C.T.S.) OR Fine Arts OR Second Languages
 - 10 credits in any 30-level courses (including locally developed/acquired and authorized courses) in addition to English 30-1 or 30-2 and Social Studies 30-1 or 30-2.

NOTE: For those going to 30-1 level and 30-2 level courses, successful completion of a Provincial Diploma Examination (PDE) is required.

RETROACTIVE CREDITS

A student who fails a course in a subject 10, 20, 30 or 10-1, 20-1, 30-1 series with a final mark no lower than 45% may proceed to the next higher course in the alternate series 10-2, 20-2, 30-2. (e.g. For example, if a student earns 47% in English 10-1 they may move into English 20-2).

Upon successful completion of the next level course in the alternate series, a student is awarded retroactive credits in the prerequisite course at the 10-2, 20-2 level.

ALEXANDER RUTHERFORD SCHOLARSHIP

The Alexander Rutherford Scholarship for High School Achievement recognizes and rewards exceptional achievement at the senior high school level and encourages students to continue their studies. The scholarship is based on scholastic achievement in grades 10, 11, and 12 to a maximum value is \$2500.

Grade 10

(\$400) Average of 80.0% or higher in five (5) subjects including:

(\$300) Average of 75.0% to 79.9% in five (5) subjects including:

- ✓ English 10-1 or 10-2
- ✓ At least two (2) of the following:
 - Mathematics 10C
 - Science 10
 - Social Studies 10-1 or 10-2
 - a language other than English at the Grade 10 level
- ✓ Any two courses with a minimum three credit value at the grade 10 level including those listed above and combined C.T.S. introductory courses.

Grade 11

(\$800) Average of 80.0% or higher in five (5) subjects including:

(\$500) Average of 75.0% to 79.9% in five (5) subjects including:

- ✓ English 20-1 or 20-2
- ✓ At least two (2) of the following:
 - Mathematics 20-1 or 20-2
 - Science 20
 - Biology 20
 - Chemistry 20
 - Physics 20
 - Social Studies 20-1 or 20-2
 - a language other than English at the Grade 11 level
- ✓ Any two courses with a minimum three credit value at the grade 11 level including those listed above and combined C.T.S. intermediate courses.

Grade 12

(\$1300) Average of 80.0% or higher in five (5) subjects including:

(\$700) Average of 75.0% to 79.9% in five (5) subjects including:

- ✓ English 30-1 or 30-2
- ✓ At least two (2) of the following:
 - Mathematics 30-1, Mathematics 30-2
 - Science 30
 - Biology 30
 - Chemistry 30
 - Physics 30

- Social Studies 30-1 or 30-2
 - a language other than English at the Grade 12 level
- ✓ Any two courses with a minimum five credit value at the grade 12 level including those listed above and combined C.T.S. intermediate courses

SCOPE AND SEQUENCE FOR HIGH SCHOOL COURSES

You should select courses related to your interests, abilities, and your future occupational preferences. Students must have successfully completed all prerequisite courses in order to move to the next level. If a student does not successfully complete a grade 9 course with an average of at least 50%, he will be enrolled in the proper grade 10 courses.



STUDENT SERVICES

Student Services is located on the west side of the Commons and provides students with information and counselling services in the following areas:

Personal/Social Counselling - assists students with personal issues in their lives which could include referrals to other agencies.

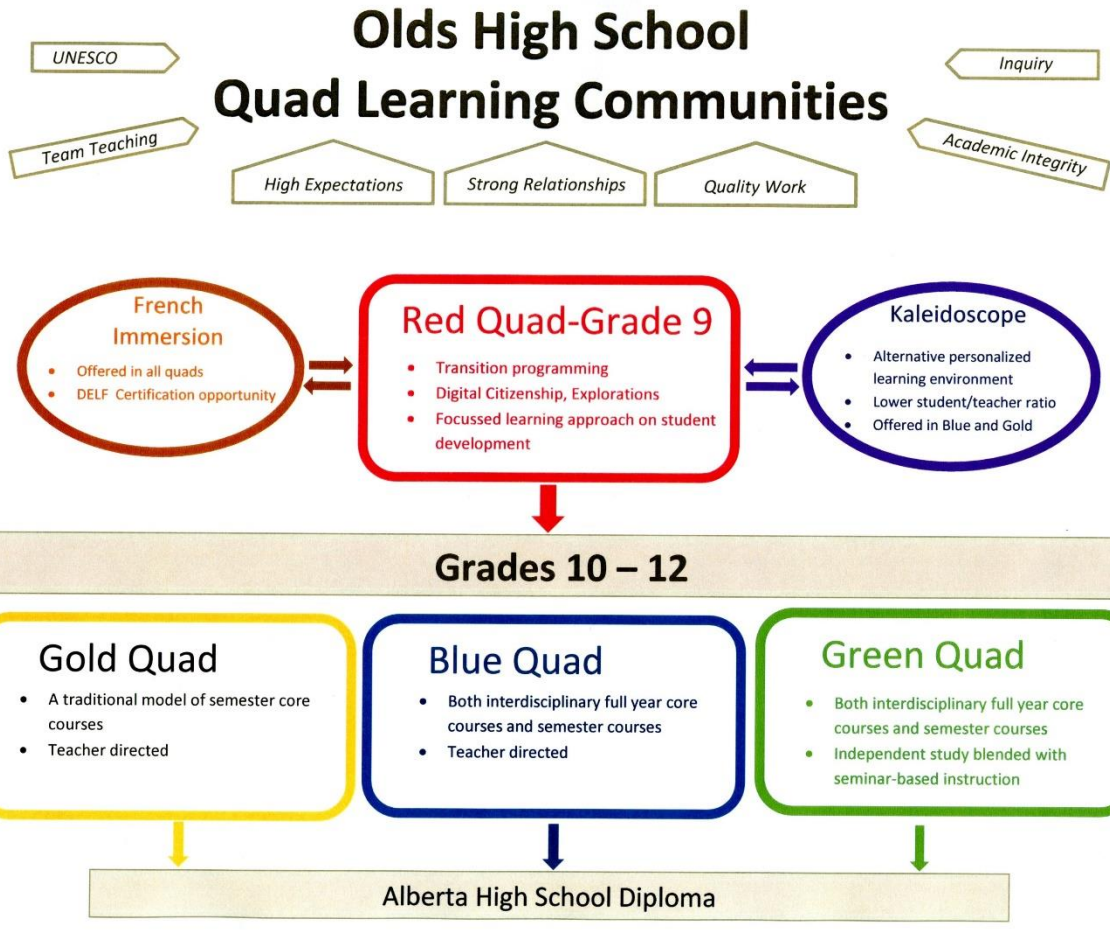
Tane Skotheim, Family Wellness Worker
Raelynn Notley, YES Program Coordinator

Academic/Educational Counselling – assists students with decisions regarding course selection and individual learning needs.

Career Counselling - assists students and parents with career planning, post-secondary and workplace transition.

Louan Statchuk, Guidance Counsellor
Carolynn Tschoumy, Career Practitioner





GRADE 10 COURSE DESCRIPTIONS

English 10- 1 and 10-2 5 credits

These programs are based on five General Outcomes that are consistent for both Program levels with some differences in the specific outcomes between General Outcomes 2 and 4.

General Outcomes 1, 3, and 5 focus on process while 2 & 4 are product oriented. In the Process Outcomes of 1, 3, & 5, students will listen, speak, read, write, view, & represent to:

1. Explore thoughts, ideas, feelings and experiences.
3. Manage ideas and information.
5. Report, support, and collaborate with others.

The Product Outcomes will have students:

2. Comprehend and respond personally, critically, and creatively to literature and other texts in oral, print, visual, and multi-media forms.
4. Create oral, print, visual, and multi-media texts and enhance the clarity and artistry of communication.

Social Studies 10-1 5 credits

Students will explore globalization, the process by which the world's citizens are becoming increasingly connected and interdependent. Students will explore the origins of globalization, the implications of economic globalization, and the impact of globalization on lands, cultures, human rights, and quality of life. The infusion of a multiple perspectives approach will allow students to examine the effects of globalization on peoples in

Canada and throughout the world, including the impact on Aboriginal and Francophone communities. Students will explore responsibilities associated with local and global citizenship and formulate individual responses to emergent issues related to globalization.

Social Studies 10-2 5 credits

Students will explore globalization, the process by which the world's citizens are becoming increasingly connected and interdependent. Students will explore historical aspects of globalization as well as the effects of globalization on lands, cultures, human rights, and quality of life. Through a multiple perspectives approach, students will examine the effects of globalization on peoples in Canada and other locations, including the impact on Aboriginal and Francophone communities. Students will develop skills to respond to issues emerging in an increasingly globalized world.

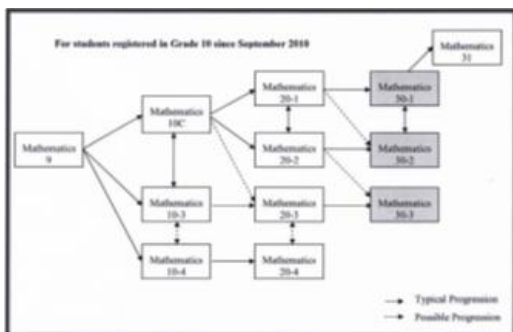
Physical Education 10 5 credits

Development of body management, coordination, and control through a variety of activities involving team, pair, and individual sports. Emphasis will be placed on recreational and fitness activities. Activities may include: soccer, badminton, team handball, ice skating (hockey, broomball), tennis, curling, basketball, and volleyball. Fitness will be a component of each unit to help to better the general well-being of the students.

The High School Mathematics Program of Studies

The high school mathematics program has a number of benefits for students.

- Greater opportunity for conceptual understanding because there is less content—students can study topics in greater depth.
- Course sequences are designed to prepare students for their future goals.
- All the mathematics course sequences encourage students to:
 - become creative problem solvers
 - use mental mathematics skills
 - gain more confidence in their mathematics skills
 - make connections between mathematical concepts and their lives.



Mathematics 10C **5 credits**

Mathematics 10C is a course designed to provide students with the mathematical understandings, rigour and critical-thinking skills that have been identified for specific post-secondary programs. Students choosing 10C have two sequence options out of Grade 10: 20-1 and 20-2. These sequences are ideal for students considering post-secondary studies in most colleges and universities.

Students are expected to have a graphing calculator for the course, preferably the Texas Instrument TI-83 Plus or TI-84 Plus.

Successful completion of Math 9 is **strongly recommended**.

Mathematics 10-3 **5 credits**

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force.

Students choosing 10-3 follow the 20-3 and 30-3 course sequence through Grade 11 and Grade 12. This course sequence is ideal for students entering trades or the workforce immediately after high school.

SENIOR HIGH SCIENCE(S)

The senior high science programs will help all students attain the scientific awareness needed to function as effective members of society. Students will be able to pursue further studies and careers in science, and come to better understand themselves and the world around them. To achieve this, appropriate curriculum components are identified and approached from a common philosophical position in each science course. These components include expected student knowledge, skills, and attitudes.

The senior high science programs place students at the center. Students are active

learners and will assume increased responsibility for their learning.

Science 10

5 credits

This academic science course is designed to be a foundation for the Biology, Physics, and Chemistry courses in grades 11 and 12. Many concepts learned in Science 10 are vital as background for success at the next level.

Unit A: The Fundamentals of Chemistry
Atomic theory and molecular nomenclature are studied in combination with historical development, lab applications, and mathematical problem solving.

Unit B: The Fundamentals of Physics
An in depth study of motion and types of energy are studied in combination with historical development, technological applications and problem solving skills.

Unit C: The Fundamentals of Biology
A close look at cellular biology includes microscope work and the connection of cell physiology to a plant system's anatomy and physiology.

Unit D: The Fundamentals of the Biosphere

This unit focuses on the Earth as a whole system involved in energy transfer with reference to climatic patterns and humans influencing climate change.

Science 10 is a prerequisite for all the 20 level science courses. Successful completion of **BOTH** Math 9 and Science 9 is **strongly recommended**.

Science 14

5 credits

Each unit of study in the Science 14 course emphasizes and identifies an area of context for study.

Unit A, Investigating Properties of Matter, will have a Nature of Science emphasis. In this unit, student attention is focused on the processes by which scientific knowledge is developed and tested, and on the scientific knowledge itself. Skills emphasized in these units are the skills of scientific inquiry.

Unit B, Energy Transfer Technologies, and Unit C, from Life to Lifestyle, will have a Science and Technology emphasize. In these units, students seek solutions to practical problems by developing and testing prototypes, products and techniques to meet a given need. The skills emphasized are those of problem solving, in combination with the skills of scientific inquiry.

Unit D, Matter and Energy in the Biosphere, will have a Social and Environmental Context emphasis. In this unit, student attention is focused on issues and decisions; students seek and analyze information and consider a variety of perspectives.

Physical Education 10 5 credits

A “module” approach has been implemented into the physical education program at the senior high level. This approach allows students to experience a variety of teaching styles and strategies, changing classroom dynamics, a high level of participation, and most importantly the opportunity to select sports and activities that appeal to the individual student. Students have reported an extremely high level of satisfaction with this style of P.E. program.

The activities available within the modules are not prescribed or mandatory activities but have been chosen to achieve the intent of the four general and grade

specific outcomes. Decisions about the activities offered are based on many considerations including safety, jurisdictional policy, student needs, facilities, equipment resources, teacher expertise and time allocation for the selected activities. Areas covered may include: terminology, history, selection and care of equipment, skills and techniques, rules and officiating, team play or game strategy (where applicable), lead up games, game variations and conditioning. Some of these areas will be incidentally taught while others will be taught directly.

French 10 **5 credits**

This class builds on the introductory concepts introduced in French 9. The goal of this course is to have students feel comfortable understanding basic written and spoken French, while gaining competence in getting their own ideas across in speaking and writing. Prerequisite: Successful completion of French 9.

Spanish 10 **5 credits**

This course is designed to introduce non-Spanish speakers to Spanish by using a variety of technologies. It has no prerequisites and can be taken by students in Grades 10, 11 or 12. Students will learn to use Spanish in a variety of situations and for a variety of purposes. In addition, students will be exposed to Spanish language and culture through a ten day trip to Playa del Carmen, Mexico through the Olds Community Spanish Club. Please note the cost of the trip is approximately \$2500 and space is limited.

Art 10 **5 credits**

Art 10 is an introductory level study of the visual arts in which students will explore the elements and principles of art and design. This course emphasizes the creative development of the mind along with development of techniques using a variety of media. Some of the art concepts and media covered in this course include:

- drawing skills and techniques.
- color theory and painting.
- sculpture with clay and plaster.
- pottery and glazes.
- animation.

Art 11 (Stained Glass) **5 credits**

Art 11 is a five credit course designed to accommodate both novice and experienced students. Using the medium of glass, novice students will begin with the basics of the course, focusing on skill development in the early part of the semester. As skills are developed, these students will join the experienced students in learning the process of creating sun catchers, mosaics and garden stones. This is a course based on participation.

Ceramics 15 **5 credits**

Ceramics 15 (Advanced Techniques) has been developed to teach key aspects of functional design in clay. Students will not only learn to appreciate the skill, knowledge and patience required to create a quality hand-made object, but will learn these things in an age given to machine production. Students will create multiple projects with clay. The course will assist students to become familiar

with a variety of ceramic processes and techniques from shaping and manipulating a wet medium through to the product of the kiln.

Ceramics 15 is a prerequisite for Ceramics 25. A student must achieve a mark of 50% or better in Ceramics 15 to advance to Ceramics 25.

C.T.S. Leadership 15, 25, 35

3 or 5 credits

C.T.S. Senior High Leadership class meets Wednesday mornings at 7:30 a.m. The Leadership Program focuses on three areas: personal leadership skills, attitude of service and activities to enhance student life at OHS. Students are given the opportunity and encouraged to develop their own leadership skills and to take risks and grow in positive and productive ways. It focuses on experiential learning and credits will be awarded depending on involvement and participation. The only prerequisite is a positive attitude and a desire to make a difference. All grade 10-12 students are welcome.

Instrumental Music 10 5 credits

This full year course will develop instrumental playing (Band) in a performance ensemble setting. All band instruments will be taught. There will be a theory component dealing with notation, articulation, rhythm, scales, and music terminology. Many styles of music will be performed (rock, pop, Latin American, ballads, overtures, classical). Concerts will be performed during the

year. These are required for course completion.

Requirements: previous music experience or permission of the instructor.

General Music (Guitar) 10

5 credits

This is an introductory course in which students learn to read and play guitar through notes and chord symbols as well as TAB. Students will learn various picking and strumming techniques and a variety of styles ranging from Blues, Pop, Rock, country and Classical.

Choral Music 10

3 credits

Provides students an opportunity to express, perform, and create vocal music. Musical skills such as reading music and correct vocal technique will be reinforced.

Instrumental Jazz 15 3 credits

This full year course will be taught outside of the regular schedule. Instruction time is in the mornings before school twice a week. Frequent public performances may also be anticipated. Performance participation is mandatory!!! Requirements: Registration in Music 10 or permission of the instructor.

C.T.S. Introductory Digital

Media Creations

5 credits

At the grade 10 (Introductory) level, students will take prerequisite courses

which are fully focused in the area of computer graphics including Visual Composition. You can expect to work in areas such as digital design & presentation, graphic creation & editing, web authoring, printing (sublimation onto objects such as a mug, mousepad, bag tag, etc.), Film/video editing, and animation. The Adobe Suite is the main software used throughout this course. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester.

C.T.S. Introductory Digital Photography **5 credits**

Do you like to take pictures? In this course we will first and foremost learn some of the do's and don'ts to get great photos. Canon DSLR cameras are provided, but if you have your own DLSR you are encouraged to bring it. Learning to get off of "Auto" mode on the camera is one of our first priorities, gradually working our way into full manual mode. Then, we'll learn how to post-process our photos using primarily Photoshop. You'll learn color correction, portrait editing, and photo restoration, as well as how to turn photos into pieces of artwork. You'll use your processed photos for a variety of projects, such as sublimation onto a mug, making a calendar, etc. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester.

C.T.S. Fashion Studies **5 credits**

The Fashion Studies course is designed for those students with an interest in

design, clothing and accessory construction, textile arts or the clothing and fashion industry. Students can select from over 40 courses. Each course will consist of 20-25 hours of work and will earn the student one credit upon completion. Some courses have pre-requisites which must be completed before beginning the next.

Courses can be chosen from either construction or production, design or merchandising areas. As a variety of activities and course work are carried out concurrently, constructive and productive independent work is essential. Some materials will be supplied.

C.T.S. Foods 10 **5 credits**

Foods at the grade 10 level allows students, through skill development in the kitchen lab, to investigate the physical and chemical properties of foods. Students work on a variety of modules that focus on food groups and allow the student to be able to apply nutrition and consumer knowledge to the food and meal preparation that they do in the lab. This course emphasizes learning that can help students improve the quality of their everyday lives. The first module in CTS Foods is a prerequisite for all other Foods modules.

Drama 10 **5 credits**

This participatory course includes the fundamental aspects of drama—artistic exploration, theory, and performance. The student will receive a comprehensive introduction to the major elements of Alberta Education's High School Drama Program including: scene study and

analysis, acting, improvisation, design, movement, speech, and media creation. The student will also attend at least one professional play production at a cost of approximately \$35.

C.T.S. Cosmetology 10

5 credits

Cosmetology Studies is a strand of C.T.S. introducing skills and practices for personal use or use in a related career field. Specific areas covered include braiding, manicures, hair techniques, curling iron and blow drying, make up, facials, and skin care. Student centered learning is encouraged, and client work is incorporated into the course.

C.T.S. Cosmetology 20

5 credits

Theatrical Makeup

Students will describe the purpose and scope of theatrical makeup. They will apply makeup to create images of selected characters and to enhance personal appearances for theatrical purposes. Students will construct and apply two and three dimensional makeup prostheses to recreate images of characters. Cosmetology 20 students will be expected to design and apply makeup for Olds High School Drama productions as part of this course. Prerequisite course is cosmetology 10.

C.T.S. Construction 10 (Shop)

5 credits

If you like to create and build things with your hands this course is for you! Explore

the world of woodworking and construction. This course is ideal for anyone with an interest in hands on project work or for those thinking of entering one of the trades.

Students will be introduced to workplace and shop safety, specific theoretical knowledge which provides the foundation for further learning along with hands-on practice building projects. Students get to develop their practical skills in our woodworking shop which is outfitted with the latest tools and equipment. Students will build a traditional Viking chest, make tools on the wood lathe and build a model monster truck.

C.T.S. Coding/Robotics 5 credits

This course will appeal to any student interested in exploring how computers are used to solve problems in life and work. It is designed to provide students with an introductory experience in developing skills and knowledge of computer programming through simple game development, robot building and programming, and beginner coding and syntax. The student who takes this course should have an aptitude in problem solving, good organization of ideas, and attention to detail.



GRADE 11 COURSE DESCRIPTION

English 20-1

5 credits

English 20-1 is an academic course intended to promote the student's ability to interpret literature and to communicate effectively. Class activities fall into the areas of reading, writing, listening, speaking, viewing, and presenting. Representative works from each of the major genres of literature—the short story, poetry, drama, the novel, and the essay—will be examined. Thematically related literature will be integrated as appropriate. This course is the prerequisite for English 30-1 and has several major assignments.

English 20-2

5 credits

Though this course explores and studies several genres, the emphasis remains on communication skills. A recent addition to the course is the inclusion of a visual component, and text creation. The overall purpose of the course remains the same - improvement of the students' communication skills in preparation for the world of work.

Social Studies 20-1

5 credits

The modern world has been largely shaped by the advent, development and pursuit of nationalism. In Social Studies 20-1 students will examine the origins of nationalism, the implications of nationalism as a driving force of identity and the future of nationalism in our drastically evolving world. Major themes will include: nationalism as a source of

identity; the pursuit of national interests; internationalism; and Canadian national identity.

Social Studies 20-2

5 credits

Social Studies 20-2 will explore the development of nationalism and examine how nationalism finds expression in the modern global and Canadian contexts. Other key concepts to be explored include: ultranationalism; supranationalism; internationalism; citizenship; and identity. Emphasis will be placed on developing an appreciation and awareness of what it means to be Canadian in a world of multiple national perspectives.

Mathematics 20-1

5 credits

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus. (Mathematics, Science, Commerce, Engineering, Economics, Kinesiology, Psychology, Environmental Studies, Computer Science, Health Science, Most technology programs at polytechnical institutions).

For a complete and updated list of post-secondary requirements go to <http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>

Successful completion of Math 10 C is a prerequisite. It is recommended that students entering into this sequence have

achieved a grade of 65% or higher in Math 10 C.

Students are expected to have a graphing calculator for the course, preferably the Texas Instrument TI-83 Plus or TI-84 Plus.

***Mathematics 20-2* 5 credits**

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that do not require the study of calculus.

Successful completion of Math 10 C is a prerequisite.

For a complete and updated list of post-secondary requirements go to <http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>

Students are expected to have a graphing calculator for the course, preferably the Texas Instrument TI-83 Plus or TI-84 Plus.

***Mathematics 20-3* 5 credits**

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades and for direct entry into the work force.

Successful completion of Math 10-3 is a prerequisite.

***Biology 20* 5 credits**

Biology 20 is an academic course focused on the study of living things. A significant portion of the course includes a detailed study of the circulatory, respiratory, excretory, immune and digestive systems. The second unit, biochemistry, involves the concepts of photosynthesis and cellular respiration in a very thorough way. The last unit is ecology, and will include the topics of biogeochemical cycles, biomes, biodiversity and evolutionary forces.

***Chemistry 20* 5 credits**

Students will build on knowledge obtained in the Chemistry unit of Science 10 throughout this course. Three major outcomes will carry on throughout the 4 units of the Chemistry 20 course:

1. Use atomic theory and the periodic table to classify, describe explain, and predict the properties of elements.
2. Use atomic, ionic, and bonding theories to describe, explain, and predict the properties and chemical formulas for compounds.
3. Use reaction generalizations to describe explain, and predict chemical reactions.

Unit A: The Diversity of Matter and Chemical bonding – Students will describe the role of modeling, evidence, and theory used in explaining and understanding the structure, chemical bonding, and properties of ionic and molecular compounds.

Unit B: Matter as Gases – Students will explain molecular behavior of gases through gas laws, theories and mathematical relationships.

Unit C: Matter as Solutions, Acids, and Bases – Students are asked to investigate

solutions, describing their physical and chemical properties, This will include describing acidic and basic solutions both qualitatively and quantitatively.

Unit D: Quantitative Relationships in Chemical Change – In many lab experiments, students will learn various lab skills, while being asked to balance chemical equations and indicate the quantitative relationship between reactants and products using stoichiometric analysis.

To be successful in Chemistry 20, a student should have a least 60% to 65% in Science 10, as well as very strong math skills in Mathematics 10C.

Biochemistry 20 **5 credits**

Biochemistry 20 is a year-long course combining Biology 20 and Chemistry 20. This allows for more project based learning.

Physics 20 **5 credits**

Energy is the science theme common to all units in Physics 20, with change, diversity, equilibrium, matter and systems also playing a role. Energy in its many forms causes change and determines the kind of change matter and systems undergo. The major concepts allow connections to be drawn among the four units of the course and among all eight units in the two courses in the program.

Physics 20 consists of four units of study:

Unit 1: Kinematics

In this unit, students investigate changes in the position and velocity of objects and systems in one and two dimensions.

Unit 2: Dynamics

In this unit, students investigate causes of change in the position and velocity of objects and systems in a study of dynamics and gravitation.

Unit 3: Circular Motion, Work and Energy

In this unit, students extend their study of kinematics and dynamics to uniform circular motion and to mechanical energy and power.

Unit 4: Oscillatory Motion and Mechanical Waves

In this unit, students investigate simple harmonic motion and mechanical waves.

To be successful in Physics 20 a student should have at least a 65% average in Mathematics 10C and Science 10.

Science 24 **5 credits**

Science 14-24 is a course designed to make the study of science and technology more meaningful to students and more relevant to their everyday lives now and as citizens of the future. The two course sequence satisfies the science requirements for the General High School Diploma. Topics include.

1. Body Systems
2. Disease
3. Household Science
4. Energy Consumption
5. Investigating the Environment
6. Materials We Use
7. Understanding the Technology
8. Safe Transportation

French 20 **5 credits**

This class explores five (5) themes. Teamwork and creativity are an integral

part. Acquisition of vocabulary and mastery of basic grammatical structures are the main objectives. Successful completion of French 10 and a strong desire to learn a second language are prerequisites.

Spanish 20 **5 credits**

This course is for students who have already completed Spanish 10. Students will learn to use Spanish in a variety of situations and for a variety of purposes. In addition, students will be exposed to Spanish language and culture through a ten day trip to Playa del Carmen, Mexico through the Olds Community Spanish Club. Please note the cost of the trip is approximately \$2500 and space may be limited.

Marine Biology **5 credits**

This course is offered to students who have a genuine interest in science, specifically marine biology, and wish to improve their understanding of the related topics. Concepts covered will be the physical aspects of Canada's west coast, including the tides and aspects of the coastal temperate rainforest. A significant part of the course will be marine biodiversity, and will focus on the behaviours, physiology, and anatomy of several representative species. The course will culminate in a six-day field study on Vancouver Island. Please note that the cost for the field trip will be around \$1,100 and enrolment is limited.

Art 20 **5 credits**

Art 20 is an intermediate level study of the visual arts in which students will

examine various approaches to art and design. This course emphasizes the creative development of the mind along with development of techniques using a variety of media. Some of the art concepts and media covered in this course include:

- drawing skills and techniques
- portraiture with ink and charcoal
- painting techniques with acrylics and watercolor
- sculpture with clay, plaster, and wire.
- pottery and glazes
- mosaic design

Art 21 (Stained Glass) **5 credits**

Art 21 is a five credit course available to students who have completed Art 11. The course offers several options to experienced students using the medium of glass including creating mosaics, garden stones, three dimensional projects and lead cane projects. This is a course based on participation.

Ceramics 25 **5 credits**

Ceramics 25 (Advanced Techniques) has been developed to teach key aspects of functional design in clay. Students will not only learn to appreciate the skill, knowledge and patience required to create a quality hand-made object, but will learn these things in an age given to machine production. Students have the opportunity to do in-depth and quality work in a clay medium. The course will assist students to become familiar with a variety of ceramic processes and techniques from shaping and manipulating a wet medium through to the production of the kiln.

Ceramics 25 is a prerequisite for Ceramics 35. A student must achieve a mark of 50% or better in Ceramics 25 to advance to Ceramics 35.

Career & Life Management - Career Transitions **5 credits**

C.A.L.M. 20 is a five credit core course required of all senior high school students. Included in the five credits are two CTS courses--First Aid and Job Preparation. The aim of the C.A.L.M. course is articulated through three general outcomes:

1. Personal Choices: Students will apply an understanding of the emotional, psychological, intellectual, social, spiritual and physical dimensions of health and the dynamic interplay of these factors in managing personal wellbeing.
2. Resource Choices: Students will make responsible decisions in the use of finances and other resources that reflect personal values and goals and demonstrate commitment to self and others.
3. Career & Life Choices: Students will develop and apply processes for managing personal, lifelong career development.

The Career Transitions component of this program guides the student through the process of seeking employment, preparing résumés, completing applications, employment legislation, job safety, and other related topics. A personal portfolio will be prepared by each student for use as a potential employer information package. Career transitions provide valuable, practical preparation for employment following graduation. It is also a necessary prerequisite or co-requisite for work experience courses.

C.T.S. Leadership 15, 25, 35 **3 or 5 credits**

C.T.S. Senior High Leadership class meets Wednesday mornings at 7:30 a.m. The Leadership Program focuses on three areas: personal leadership skills, attitude of service and activities to enhance student life at OHS. Students are given the opportunity and encouraged to develop their own leadership skills and to take risks and grow in positive and productive ways. It focuses on experiential learning and credits will be awarded depending on involvement and participation. The only prerequisite is a positive attitude and a desire to make a difference. All grade 10-12 students are welcome.

Choral Music 20 **3 credits**

Provides students an opportunity to express, perform, and create vocal music. Musical skills such as reading music and correct vocal technique will be reinforced.

Instrumental Music 20 **5 credits**

Instrumental Music 10 is the prerequisite. This full year course will develop instrumental playing (band) in a performance ensemble setting. All band instruments will be taught. There will be a theory component dealing with notation, articulation, rhythm, scales, and music terminology. Many styles of music will be performed (rock, pop, Latin American, ballads, overtures, classical). Concerts will be performed during the year. These are required for course completion.

***Instrumental Jazz 25* 3 credits**

This full year course will be taught outside of the regular schedule. Instruction time is in the mornings before school twice a week. Frequent public performances may also be anticipated. Performance participation is mandatory!!! Requirements: Registration in Instrumental Music 20 or permission of the instructor.

***General Music (Guitar) 20* 5 credits**

General Music (Guitar) 10 is the prerequisite. This is the second course in which students learn to read and play guitar through notes and chord symbols as well as TAB. Students will improve on various picking and strumming techniques in a variety of styles ranging from Blues, Pop, Rock, Country and Classical.

***Physical Education 20* 5 credits**

The P.E. 20 curriculum will be based primarily on the “module” approach to physical education (as outlined under the description for P.E. 10) with a higher emphasis on fitness, individual and dual sports games and possible outdoor trips. The following activities may be utilized: basketball, skating (ice hockey, broom ball, ringette), badminton, curling, aerobics, track & field, tennis, swimming, weight training, baseball, team handball, golf, archery, first aid, etc.

***C.T.S. Intermediate Digital Media Creations* 5 credits**

At the grade 11 (Intermediate) level, students will choose which digital media courses they want to pursue at the Intermediate level. Topics will include Raster & Vector Graphics, Digital Design, Web Design, Computer Animation, Film & Video editing, Video Effects, and Printing using the sublimation process to transfer ink onto objects such as a mug, mousepad, etc. The Adobe Suite is the main software used throughout this course. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester. NOTE: Because of the flexibility in student project choice, working independently is a necessity for success in this course, as not everyone in the class will necessarily choose the same projects, nor topics, as you. Topic exploration may be limited based on prerequisites you’ve completed in the previous year.

***C.T.S. Intermediate Digital Photography* 5 credits**

Expand your photography and photo editing skills through intermediate course topics. Compose your photos better. Use your photos to tell a story. Work with different lenses, lighting, studio lights, indoor and outdoor photography, black & white photography, etc. Expand your use of more advanced features of a DLSR camera. Use your talents to create a sublimated product such as a bag tag, as well as to create other projects using your photos. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester.

***C.T.S. Fashion Studies* 5 credits**

Designed to build on Fashion Studies, grade 10 level, students choose three, four, or five modules from eleven (11) areas. Students work at an individual pace in such areas as fashion design, illustration, construction, pattern design, and specialty fabrics. This course can be offered for 3, 4, or 5 credits depending on the demand. Students will need to supply their own materials.

drawing techniques, joinery, and furniture finishing. Students will research, design and then will be guided as they build a functional piece of furniture. This course is open to all grade 11 students regardless of past experience. Only a desire to create and make is needed.

***C.T.S. Foods 20* 5 credits**

In Foods at the grade 11 level, students work on a variety of modules such as advanced meat preparation, cake and pastry, and international cuisine. Throughout the course students develop an understanding of personal, family, cultural, environmental, and economic factors related to food behavior and choices. In all modules, that knowledge will be applied to cooking situations in the kitchen lab. This course is excellent for students who have enjoyed Foods at the grade 10 level and want to learn more!

***C.T.S. (Shop) Construction* 5 credits**

Explore your creative side and design a piece of furniture. Develop your practical skills and build a table with a drawer. If you like to create and build things with your hands this course is for you! Explore the world of design and woodworking. This course is ideal for anyone with an interest in hands on project work or for those thinking of entering one of the trades.

Students will be introduced to workplace and shop safety, furniture styles through the ages, design theory, basic shop

C.T.S. Coding/Robotics 5 credits

This course will appeal to any student interested in exploring how computers are used to solve problems in life and work. It is designed to provide students with an introductory experience in developing skills and knowledge of computer programming through simple game development, robot building and programming, and beginner coding and syntax. The student who takes this course should have an aptitude in problem solving, good organization of ideas, and attention to detail.

Drama 20 5 credits

This is a continuation of the skills explored in Drama 10 with more of a focus on acting and play production. The second year drama course also introduces playwrighting and theatre criticism. The student will also attend at least one professional play production at a cost of approximately \$35. Drama 10 is a prerequisite.

Film Studies 15 5 credits

This course is designed to facilitate students' understanding of film as a distinct form of art, technology and visual media. Students will identify and explore social, cultural, and historical forces as represented in film. They will develop critical viewing techniques by interpreting the literary, dramatic, and cinematic aspects of film and other visual media. Students will be exposed to the concept of "books on film" and case study analysis to assess the connections that exist between the literary world and cinema. While viewing films will be a

large part of the program, the range of activities will include: note-taking; written response; class discussion; internet research; essay and, oral and visual multimedia production and presentation.

Registered Apprenticeship Program (R.A.P.)

Students with an interest in pursuing technical programs requiring apprenticeship may register in these courses in grade eleven or grade twelve. They must consult with the principal prior to selecting these courses in order to learn the program requirements. Opportunities exist for students pursuing work in any approved trade.

Work Experience 25 5 credits

This course refers to employment undertaken as an integral part of a planned school program in Alberta that is under the cooperative supervision of a teacher coordinator and the employer. Students may obtain five (5) high school credits per course providing they have completed a minimum of 125 hours respectively in each course.

The program may be a career guidance or exploratory program wherein the student is given the opportunity to work at different occupations. The experience provides a basis, through observation and supervised participation, for an informed career choice. These courses are recommended for the grade eleven or twelve levels.

Students enrolled in work experience will have to complete a prerequisite career transition course.

Special Projects 20 **5 credits**

This course is for a student to pursue an area of interest not within the scope of the regular curriculum. Special projects are subject to approval of the coordinator. Students are required to submit a carefully structured proposal to the Coordinator of Special Projects. Special Projects proposals must be submitted and approved at the time of registration for the course. The proposals should have approval before the end of June in the preceding school year. These courses are recommended for grade eleven or grade twelve students.



GRADE 12 COURSE DESCRIPTIONS

English 30-1 **5 credits**

English 30-1 is an academic course. At this level, the course is demanding of the student's effort and time—success depends on the student's commitment to do work outside of the classroom. The course is primarily a literature course with emphasis on reading, writing, and classroom discussion. Without strong study skills, good work habits, and self-directed learning, students may find they will face some difficulties. This course is recommended for those wishing to enter university and for those with a strong academic background.

English 30-2 **5 credits**

English 30-2 is for the student pursuing the General Diploma. The primary emphasis in the course is on improvement of some basic language and writing skills. Much of the work consists of short written assignments, language exercises, reading exercises, and thinking skills. New to the course is a variety of text creation and an emphasis on student responsibility. Students should be prepared to do a considerable amount of homework on a regular basis.

Social Studies 30-1 **5 credits**

This course explores the origins and complexities of ideologies and examines multiple perspectives regarding the principles of classical and modern liberalism. An analysis of various political and economic systems will allow

students to assess the viability of the principles of liberalism in the modern context. Students will be exposed to the roles and responsibilities associated with citizenship and will be encouraged to respond to emergent global issues.

Social Studies 30-2 **5 credits**

This course explores the origins, values and components of competing ideologies. Students will explore multiple perspectives regarding relationships among individualism, liberalism, common good and collectivism. An examination of various political and economic systems will allow students to determine the viability of the values of liberalism. Students will develop an understanding of the roles and responsibilities associated with citizenship and will be encouraged to respond to current global issues.

Mathematics 30-1 **5 credits**

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus. (Mathematics, Science, Commerce, Engineering, Economics, Kinesiology, Psychology, Environmental Studies, Computer Science, Health Science, Most technology programs at polytechnical institutions)

For a complete and updated list of post-secondary requirements go to <http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>

Successful completion of Math 20-1 or Math 30-2 is a prerequisite. It is recommended that students entering into this sequence have achieved a grade of 65% or higher in prerequisite courses.

Students are expected to have a graphing calculator for the course, preferably the Texas Instrument TI-83 or TI-84 Plus.

Mathematics 30-2 5 credits

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that do not require the study of calculus.

Successful completion of Math 20-2 is a prerequisite.

For a complete and updated list of post-secondary requirements go to <http://alis.alberta.ca/ec/ep/aas/ta/mathreq.html>

Students are expected to have a graphing calculator for the course, preferably the Texas Instrument TI-83 Plus or TI-84 Plus.

Mathematics 30-3 5 credits

This course sequence is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority

of trades and for direct entry into the work force.

Successful completion of Math 20-3 is a prerequisite.

Mathematics 31 5 credits

All students who plan on attending a university to pursue a math, science, or business related degree should consider taking Mathematics 31. The content covered in the course is excellent preparation for post-secondary calculus courses. There is no diploma examination in this course. Mathematics 30-1 is a prerequisite for Mathematics 31.

Biology 30 5 credits

This is an academic course with a Diploma Final Exam worth 50% of the student's grade. The first unit of the course continues the study of Anatomy and Physiology of the human body with development of the nervous, endocrine, and reproductive systems. The unit of the course focuses on the biochemistry of human cells with the study of cellular knowledge leading to an understanding of protein synthesis, cellular reproduction, and genetics. The final and third unit of the course summarizes and applies the knowledge of genetics to populations and ecology.

Chemistry 30 5 credits

The themes of systems, energy, and change are central in Chemistry 30. The components of a system influence each other by the transfer of energy and matter, changes to one part result in changes to other parts of a system. Chemistry 30

consists of these units: Organic Chemistry, Thermochemical Changes, Electrochemical Changes, and Equilibrium: Acids and Bases in Chemical Changes.

Many of the concepts learned in Chemistry 20 will be used and expanded upon in this course. Chemistry 20 is a prerequisite for Chemistry 30. Lab skills will continue to be developed for practical chemical and analysis applications.

Physics 30 **5 credits**

The diversity of matter and energy are the predominant themes of the Physics 30 course. Physics 30 consists of four units:

Unit 1: Momentum and Impulse:

In this unit, Newton's second law of motion is linked to concepts of momentum and impulse.

Unit 2: Forces and Fields:

In this unit, students investigate electric and magnetic forces and fields and their applications in technological devices.

Unit 3: Electromagnetic Radiation:

In this unit, students study the nature and characteristics of electromagnetic radiation (EMR), using the wave and photon models of light.

Unit 4: Atomic Physics

In this unit, students study the development and modification of models of the structure of matter.

Physics 20 is a prerequisite for Physics 30. Mathematics 20-1 is also a suggested prerequisite.

French 30 **5 credits**

This class revisits previous learning in Core French classes and builds on this knowledge to develop practical communication skills. Students are expected to express their ideas in French at all times during the class. Oral and written abilities are developed through exploration of more complex language structures, enhanced vocabulary and verb tenses. A multi-media approach is used to teach different aspects of the program, including a cultural component about the Francophone world. French 20 is a prerequisite for this class.

Art 30 **5 credits**

Art 30 is an advanced level study of the visual arts in which students will focus on art appreciation as well as various techniques in art and design. This course emphasizes the creative development of the mind along with development of techniques using a variety of media. Some of the art concepts and media covered in this course include:

- advanced drawing techniques.
- portraiture with plaster.
- art history research and canvas painting.
- advanced painting techniques with acrylics & watercolor.
- pottery and glaze techniques.

Art 31 (Stained Glass) **5 credits**

Art 31 is a five credit course available to students who have completed Art 21. Each student will complete a sun catcher that reflects some level of sophistication and accomplishment. After this an extensive degree of choice will be granted to the student in choosing

remaining projects. The number of projects you are required to complete will be determined by the degree of difficulty the projects require. Some examples of projects are lead sun catcher, mosaic, stepping stone, 3-D sun catcher, lamp shade, etc. This is a course based on participation.

Ceramics 35 **5 credits**

Ceramics 35 (Advanced Techniques) has been developed to teach key aspects of functional design in clay. Students will not only learn to appreciate the skill, knowledge and patience required to create a quality hand-made object, but will learn these things in an age given to machine production. Students have the opportunity to do in-depth and quality work in a clay medium. The course will assist students to become familiar with a variety of ceramic processes and techniques from shaping and manipulating a wet medium through to the production of the kiln.

C.T.S. Leadership 15, 25, 35 **3 or 5 credits**

C.T.S. Senior High Leadership class meets Wednesday mornings at 7:30 a.m. The Leadership Program focuses on three areas: personal leadership skills, attitude of service and activities to enhance student life at OHS. Students are given the opportunity and encouraged to develop their own leadership skills and to take risks and grow in positive and productive ways. It focuses on experiential learning and credits will be awarded depending on involvement and participation. The only prerequisite is a positive attitude and a desire to make a

difference. All grade 10-12 students are welcome.

Choral Music 30 **5 credits**

Provides students an opportunity to express, perform, and create vocal music. Musical skills such as reading music and correct vocal technique will be reinforced.

Instrumental Music 30 **5 credits**

Instrumental Music 20 is the prerequisite. This full year course will develop instrumental playing (band) in a performance ensemble setting. All band instruments will be taught. There will be a theory component dealing with notation, articulation, rhythm, scales, and music terminology. Many styles of music will be performed (rock, pop, Latin American, ballads, overtures, classical). Concerts will be performed during the year. These are required for course completion.

Instrumental Jazz 35 **3 credits**

This full year course will be taught outside of the regular schedule. Instruction time is in the mornings before school twice a week. Frequent public performances may also be anticipated. Performance participation is mandatory!!! Registration in Instrumental Music 20 or permission of the instructor.

General Music (Guitar) 30 **5 credits**

General Music (Guitar) 20 is the prerequisite. This is the third course in

which students reinforce their learning from the previous two courses. Assessment is more independently based as the student must complete three projects, as well as concert performances and proficiency playing tests.

Drama 30 **5 credits**

This third year extension of the high school drama curriculum has particular focus on directing a short play as well as furthering the student's understanding of: acting, design, speech, movement, theatre criticism, and the media. Drama 20 is a prerequisite. This course may be used towards satisfying the arts requirement needed for college and university entrance. The student will also attend at least one professional play production at a cost of approximately \$35.

Physical Education 30 **5 credits**

The P.E. 30 curriculum will also be designed in the "module" approach to physical education (as outlined under the description for P.E. 10) with a greater focus in the dual and individual activities. There is a strong emphasis on the fitness aspect and its importance. Some theory will be presented to create a better understanding of nutrition, functional fitness and sports medicine concepts. The course has a strong flavour of recreational activities that may be pursued; or the participant will at least have the base to be able to participate in the future. Activities may include: badminton, cycling, skating, volleyball, archery, track and field, golf, tennis, swimming, curling, dance, racquetball, resistance and functional fitness training, etc.

There may be a variety of outdoor trips planned to cover areas of the curriculum. These trips are planned and designed to meet the interest of the groups involved. These trips may include downhill skiing and/or cross country skiing, cycle trips, camping trips and further educational trips in the Physical Education environment. On all trips, participation of the parents is welcome. Activities are selected at the instructor's discretion and the interest of the group.

C.T.S. Advanced Digital Media Creations *5 credits*

Students will continue choosing which digital media courses they wish to pursue at the Advanced level. Topics will include Raster & Vector Graphics, Digital Design, Web Design, Computer Animation, Film & Video editing, Video Effects, and Printing using the sublimation process to transfer ink onto objects such as a mug, mousepad, etc. The Adobe Suite is the main software used throughout this course. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester. NOTE: Because of the flexibility in student project choice, working independently is a necessity for success in this course, as not everyone in the class will necessarily choose the same projects, nor topics, as you. Topic exploration may be limited based on prerequisites you've completed in previous years.

C.T.S. Advanced Digital Photography *5 credits*

Expand your photography and photo editing skills even further. Work with different lenses, colour, black and white, studio lighting, etc. Produce one or more photography projects of your choice, including sublimation projects. Each course successfully completed earns you one credit, with the expectation that you earn 5 credits during the semester.

C.T.S. Fashion Studies *5 credits*

Fashion Studies at the grade 12 level is designed for the self-motivated student,

interested in expanding his/her skill and knowledge level. Advanced techniques in design and knowledge of specialty fabrics are covered. Individuals work at their own pace, on projects of their choice. This course is designed so students choose 3, 4, or 5 modules from eight (8) specialized areas.

C.T.S. Foods 30 *5 credits*

In Foods at the grade 12 level, students can significantly improve their skills and knowledge by working on a variety of modules such as advanced preparation techniques, creative baking, entertaining with food, food presentation, and stages of the life cycle. This is an excellent course for students who have a real love and interest in foods and for their preparation. Students are encouraged to apply the knowledge gained in Foods to improve the quality of their everyday lives.

C.T.S. (Shop) Construction 20 *5 credits*

Explore your creative side and design a piece of furniture. Develop your practical skills and build a table with a drawer. If you like to create and build things with your hands this course is for you! Explore the world of design and woodworking. This course is ideal for anyone with an interest in hands on project work or for those thinking of entering one of the trades.

Students will be introduced to workplace and shop safety, furniture styles through the ages, design theory, basic shop drawing techniques, joinery, and furniture finishing. Students will

research, design and then will be guided as they build a functional piece of furniture. This course is open to all grade 12 students regardless of past experience. Only a desire to create and make is needed. Students who took this course in grade 11 will have the opportunity to work on more advance furniture, cabinetry, or carpentry projects.

C.T.S. Coding/Robotics 5 credits

This course will appeal to any student interested in exploring how computers are used to solve problems in life and work. It is designed to provide students with an introductory experience in developing skills and knowledge of computer programming through simple game development, robot building and programming, and beginner coding and syntax. The student who takes this course should have an aptitude in problem solving, good organization of ideas, and attention to detail.

Registered Apprenticeship Program (R.A.P.)

Students with an interest in pursuing technical programs requiring apprenticeship may register in these courses in grade eleven or grade twelve. They must consult with the principal prior to selecting these courses in order to learn the program requirements. Opportunities exist for students pursuing work in any approved trade. Entry into the RAP program can begin the summer after grade 10 is completed.

Work Experience 35 5 credits

This course refers to employment undertaken as an integral part of a planned school program in Alberta that is under the cooperative supervision of a teacher coordinator and the employer. Students may obtain 5 high school credits per course providing they have completed a minimum of 125 hours respectively in the course.

The program may be a career guidance or exploratory program wherein the student may be given the opportunity to work at different occupations. The experience provides a basis, through observation and supervised participation, for an informed career choice. These courses are recommended for the grade eleven or grade twelve levels.

Special Projects 30 5 credits

This course is for a student to pursue an area of interest not within the scope of the regular curriculum. Special projects are subject to approval of the coordinator. Students are required to submit a carefully structured proposal to the Coordinator of Special Projects. Special Projects proposals must be submitted and approved at the time of registration for the course. The proposals should have approval before the end of June in the preceding school year. These courses are recommended for grade eleven or grade twelve students.

