

Didsbury High School

Explore, Achieve, Excel



DIDSBURY HIGH SCHOOL

2017-2018 Program Course Information

High School Booklet

Date: April 10, 2017

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Introduction

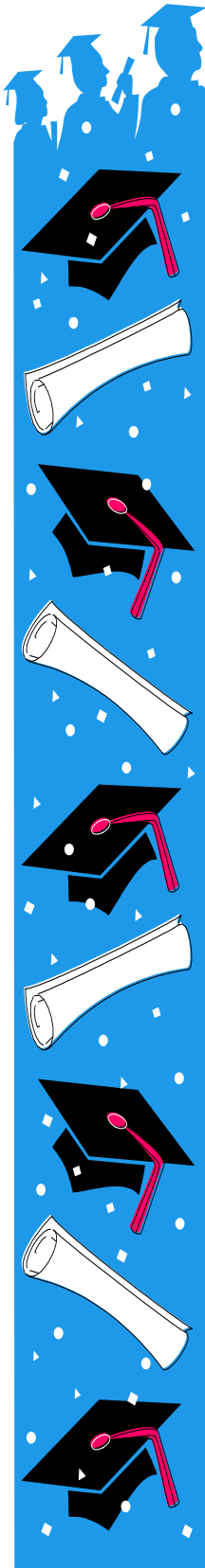
This booklet has been assembled to provide students and parents with some basic information that may help in selecting the most appropriate courses for a viable high school program. Diploma requirements for each year of your program should be considered carefully. It is **required** that a minimum of 40 credits be taken both in grade ten (10) and 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. Chinook's Edge School Division Policy #IECD states "students are expected to take a minimum of 30 credits in grade twelve". This recommended program allows for flexibility and completion should a student experience difficulty. It also allows DHS to offer a well rounded selection of courses at the high school level.

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

Course planning is an important step in reaching your educational goals. Careful consideration should be given to the following:

- ◇ High School Diploma Requirements.
- ◇ Interests and past performance in school.
- ◇ Plans for the future (employment and future education).
- ◇ Relationships between individual courses and goals.
- ◇ Prerequisite requirements.

The selection of courses should be based on as much information as possible. The course descriptions in this booklet are brief. Subject teachers can provide more information regarding course content and prerequisite requirements. Planning a total high school program early will prove very advantageous to students. Students or parents may wish to contact personnel at the school (335-3356) if they have any questions.



Alberta High School Diploma Requirements

The Alberta High School Diploma is an official document issued by the Department of Education (each April, September and November) certifying that the holder has completed a prescribed program of instruction under the direction and supervision of Alberta Learning.

The diploma does not necessarily grant admission to the post-secondary institutions. Students should be aware that there are a variety of entrance requirements for post-secondary institutions and that they should plan their programs accordingly. Further information on specific post secondary entrance requirements is available from the school guidance counselor

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 Language Arts 30-1 or 30-2
 - ◇ Social Studies 30-1 or 30-2
 - ◇ Math 20-1, 20-2, or 20-3
 - ◇ Science 24 or Biology 20 or Chemistry 20 or Physics 20
 - ◇ Physical Education 10 (3 credits)
 - ◇ CALM (3 credits)
- ◇ Meet the standards and complete the following:
 - ◇ 10 credits in any combination from:
 - ◇ Career & Technology Studies (CTS)
 - ◇ Physical Education 20 and/or 30
 - ◇ Fine Arts or Second Languages or
 - ◇ Locally developed/acquired and authorized courses in CTS, Fine Arts or Second Languages
 - ◇ 10 credits in any 30-level courses (including locally developed/acquired and authorized courses) in addition to English Language Arts 30-1 or 30-2 and Social Studies 30-1 or 30-2.

Retroactive Credits

A student who fails a course in a subject with more than one series and a final mark no lower than 45% in Social 10-1, 20-1 or English 10-1, 20-1, Science 10, only, may proceed to the next higher course in the alternate series. (e.g. English 10-1/20-1/30-1 series English 10-2/20-2/30-2).

Upon successful completion of the 20-2 or 30-2 level course, a student is eligible for retroactive credits in the prerequisite course at the 10-2 or 20-2 level (for Social, English and Science 10 to 24 only) provided credits have not already been granted in either the -1 or -2 series.

Alexander Rutherford Scholarship for High School Achievement

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 with money awarded as follows. The maximum value is \$2,500.

Grade 10

\$400.00—Average of 80% or higher in five (5) subjects.

\$300.00—Average of 75% - 79.9% in five (5) subjects.

- ◇ English 10-1 or 10-2
- ◇ At least two (2) of the following:
 - ◇ Math 10-C
 - ◇ Science 10
 - ◇ Social Studies 10-1, 10-2
 - ◇ A language other than English at the Grade 10 level including the above subjects.
- ◇ Any two (2) other subjects at the grade 10 level including the above subjects and combined CTS courses.



Grade 11

\$800.00—Average of 80% or higher in five (5) subjects.

\$500.00—Average of 75% - 79.9% in five (5) subjects.

- ◇ English 20-1 or 20-2
- ◇ At least two (2) of the following:
 - ◇ Math 20-1 or Math 20-2
 - ◇ Biology 20
 - ◇ Chemistry 20
 - ◇ Physics 20
 - ◇ Social Studies 20-1, 20-2
 - ◇ A language other than English at the grade 11 level.
- ◇ Any two (2) other subjects at the grade 11 level including the above subjects and combined CTS courses.

Grade 12

\$1300—Average of 80% or higher in five (5) subjects.

\$700.00—Average of 75% - 79.9% in five (5) subjects.

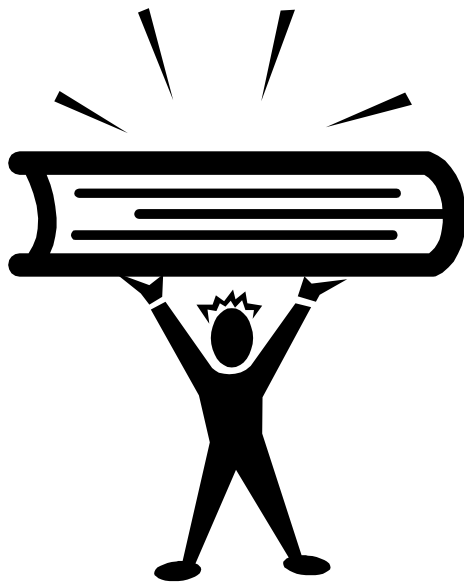
- ◇ English 30-1 or 30-2
- ◇ Any two (2) of the following:
 - ◇ Math 30-1 or 30-2
 - ◇ Biology 30
 - ◇ Chemistry 30
 - ◇ Physics 30
 - ◇ Social Studies 30-1, 30-2
 - ◇ A language other than English at the grade 12 level
- Plus any two courses with a minimum of 5 credits at the grade 12 level, including combined CTS courses.

Calculation for grade 12 average will be based on an equal weighting of the teacher-awarded and diploma examination marks. In those instances where an eligible subject does not have a diploma examination, the teacher-awarded mark will be used.

Guidance Counsellor

The role of the guidance Counsellor is to provide assistance to the students of Didsbury High School in the following areas:

1. Having a positive attitude towards learning—"A student who thinks he can, will."
2. Using a decision-making process that will enable students to assume personal responsibility for the choices they make.
3. Program and courses selection, course changes, and some tracking of student academic progress.
4. Planning for post-secondary education, scholarships, and financial assistance.
5. Distance Learning courses.
6. Study skills, and work skills.
7. Occupation interest inventories.
8. Guidance center-display materials on occupations and post secondary choices.



Guidelines for Students Entering Grade 10

You should select courses related to your interests, abilities and your future occupational preference. Study habits are a very important factor in this decision. **Note:** These are recommendations and final decisions on courses are made by students and parents. However, if a student fails a course in grade nine, they will be placed by the school in the appropriate course in grade ten.

Mathematics

Grade 9 Mark

0—59%
60% up

Math 10-3, Math 20-3, Math 30-3
Math 10C
Math 20-1, 20-2, Math 30-1, 30-2

English

Grade 9 Mark

0—59%
60%+

English 10-2, 20-2, 30-2
English 10-1, 20-1, 30-1

Science

Grade 9 Mark

0—59%
60%+

Science 14, 24
Science 10, then Biology, Chemistry
or Physics or some combination

Social Studies

Grade 9 Mark

0—59%
60%+

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

Students must have Music 9 to proceed to Music 10.

Guidelines for Students Entering Grade 11

- You must have a full course load of a minimum of 40 credits.

Guidelines for Students Entering Grade 12 and participating in the High School Graduation

1. Grade 12 students must be enrolled in and complete a minimum of 30 credits at DHS.
2. Also to be considered are the requirements for participation in graduation in grade 12. Currently a student must have:
 - ◇ All of the requirements for a Diploma as issued by Alberta Learning.
3. When a student leaves DHS and goes to a school that has its own “Grad” ceremony, then such students can only attend this school’s banquet and ceremony as non-participating invited guests of the graduating class. This opportunity would only be available to students who have been gone for more than two years.

Course Descriptions

CAREER & LIFE MANAGEMENT

- 5 credits

**a mandatory course required for graduation*

Areas of focus will include:

1. The World of Work: self assessment, career planning, necessary skills for the work force, job application, resumes and interview, on-the-job expectations and rights.
2. Independent Living and Personal Financial Management.
3. Physical & Emotional Well-being.
4. Relationships
5. Human Sexuality (a parent may, in writing, exempt their child from this unit).

FINE ARTS

ART 10 - 3 credits

This course is an introductory look at a wide variety of 2 and 3 dimensional art areas. The units of study include Drawing, Watercolor Painting, Ceramics and Design Technique. The approach will be process (rather than product) oriented with a strong emphasis on the Basic Elements of Design. Grades will be based on practical work as well as theory. The main objective of this course is to increase enjoyment of art through exposure to a wide variety of mediums and techniques.



ART 20 - 3 credits

Prerequisite: Art 10

This course is designed to offer the student, with some basic technical skill, a chance to explore further the units studied in Art 10. The approach will be somewhat individual and is again process-oriented. The emphasis in Art 20 is on good design and technical expertise.

ART 30 - 5 credits

Prerequisite: Art 20

Art 30 is designed to offer the serious art student the opportunity to pursue personal areas of interest. The approach is individualized and exploratory. The main objective in Art 30 is the attainment of a level of expertise and interest that will hopefully lead to a lifelong pursuit.



DRAMA 10/20/30 - 5 credits

Drama will be offered as a course outside the traditional school day hours. The course will be a "Production" class, that is, students will prepare a production to be presented to the public. Credits for this class are considered above and beyond the minimum credit requirements for each grade.



Course Descriptions

FINE ARTS (Continued)

INSTRUMENTAL MUSIC 10 - 5 credits

Prerequisite: *grade 9 music or permission of the DHS Music Department*

This course offers the student an opportunity to study instrumental music in a group setting. The class will focus on individual and ensemble playing techniques, musical literacy, team work and group effort, and the rehearsal and performance of wind music in a variety of genres. Students in this class form the Didsbury High School Senior Concert Band.



INSTRUMENTAL MUSIC 20 - 5 credits

Prerequisite: *Music 10 or permission of the DHS Music Department*

This course is similar to Music 10. Technique and finger dexterity will be advanced. Students in this class form the Didsbury High School Senior Concert Band.

INSTRUMENTAL MUSIC 30 - 5 credits

Prerequisite: *Music 20 or permission of the DHS Music Department*

Music 30 continues to focus on the continued development of instrumental proficiency. Students in this class form the Didsbury High School Senior Concert Band.



MUSIC 15—Instrumental Jazz - 5 credits

Prerequisite: *Students must be concurrently enrolled in Concert Band. Admission is based upon standard jazz ensemble instrumentation and/or audition.*

This course offers the student an opportunity to study Jazz in an instrumental group setting. In addition to rehearsing and performing works in a variety of jazz styles, students will also learn historical and theoretical concepts specific to the jazz idiom. The topic of improvisation will also be introduced. Students in this course will be members of the Didsbury High School Jazz Ensemble.

Note: *This course meets outside of the regular timetable, not necessarily on alternate days.*



MUSIC 25—Instrumental Jazz 5 credits

Prerequisite: *Students must be concurrently enrolled in Concert Band. Admission is based upon standard jazz ensemble instrumentation and/or audition.*

As per Music 15—Jazz Ensemble

MUSIC 35—Instrumental Jazz - 5 credits

Prerequisite: *Students must be concurrently enrolled in Concert Band. Admission is based upon standard jazz ensemble instrumentation and/or audition.*

Music 35 is a continuation of the first two sections of the Jazz Ensemble program. Students in this course will be members of the Didsbury High School Jazz Ensemble.

HUMANITIES DEPARTMENT

The English/Social –1 streams are designed to prepare students planning to enter post secondary institutions. Therefore the course requires extensive reading, comprehension and essay writing skills in and out of class time. Students choosing these streams should be prepared and willing to accept the demands of a challenging course in order to experience success.

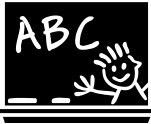
ENGLISH LANGUAGE ARTS 10-1 - 5 credits

Recommendation: 60% in Grade 9 Language Arts

This course is based on the Common Curriculum Framework for K-12 English Language Arts. Western Canadian Protocol for Collaboration in Basic Education. Students will study short stories, nonfiction, poetry, a Shakespearean play and/or a modern play, a feature film, and a novel.

ENGLISH LANGUAGE ARTS 10-2 -5 credits

English 10-2 is a comprehensive course in Language Arts. It looks at various forms of text, including short stories, poems, novels, films and a variety of non print media. During this course you will practice the actual writing process, learn the elements of writing, try various types of writing and apply the rules of writing to your work. As well, different types of communications will be looked at including journal writing, reflective essays, descriptive and observational writing, biographies, eyewitness accounts, recording of oral histories, letters, speeches, business letters, technical writing, interviewing, video, radio and visual arts.



ENGLISH LANGUAGE ARTS 20-1 -5 credits

Prerequisite: English 10-1 or English 20-2

Recommendation: 65% in English 10-1 or 65% in English 20-2

English 20-1 is the prerequisite for English 30-1. A minimum of one third of the texts studies are authored by Canadians. Students will improve the communication skills in six areas: reading, representing, speaking, listening, viewing and writing.

ENGLISH LANGUAGE ARTS 20-2 - 5 credits

Prerequisite: English 10-2

Students will improve their reading and writing skills with continued emphasis being placed on speaking, representing, listening and viewing. A minimum of one third of the texts studies are authored by Canadians. Students will further their applied academics program with practical reading and writing. Students will be encouraged to use technology in their work.

ENGLISH LANGUAGE ARTS 30-1 - 5 credits

Prerequisite: English 20-1 or English 30-2

Strongly recommended: 65% in English 20-1 or 30-2 and to be taken in the grade 12 year.

English 30-1 is an academic course. It is intended for mature students who plan to continue their formal education beyond high school, and for others who have had success in prerequisite courses. There is emphasis on the ability to write. Literature study focuses not only on the literal level of meaning, but on genre, style and criticism. Students must be prepared to read outside of class time. Speaking, representing and viewing also have a place in this course. At the conclusion of English 30-1, successful students will be prepared for University Humanities courses. This course has a government diploma exam which accounts for 30% of the final grade.

ENGLISH LANGUAGE ARTS 30-2 - 5 credits

Prerequisite: English 20-2

In English 30-2, the six communication skills will be improved. Emphasis again will be on reading and writing. A minimum of one third of the texts studies are authored by Canadians. Students will be asked to analyze and synthesize ideas derived from reading. Upon successful completions of this course, students should be able to communicate effectively in personal and business related situations. This course has a government diploma exam which accounts for 30% of the final grade.

HUMANITIES (Continued)

SOCIAL STUDIES 10-1 - 5 credits

Recommendation: 60% in grade 9 Social Studies

Students will explore multiple perspectives on the origins of globalization and the local, national, and international impacts of globalization on lands, cultures, economies, human rights and quality of life. Students will examine relationships among globalization, citizenship and identify to enhance skills for citizenship in a globalizing world. The infusion on peoples in Canada and throughout the world, including the impact on Aboriginal and Francophone communities.

SOCIAL STUDIES 10-2 - 5 credits

Recommendation: 50% in grade 9 Social Studies

Students will explore historical aspects of globalization as well as the effects of globalization on lands, cultures, human rights and quality of life. Students will explore the relationships among globalization, citizenship and identity. The infusion of multiple perspectives will allow students to 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.

By examining opportunities and challenges associated with globalization, the process by which the world is becoming increasingly connected and interdependent, students will develop awareness of the impacts of globalization. Recognizing and appreciating the influence of globalization will lead students to examine their roles as responsible and active citizens in a globalizing world.



SOCIAL STUDIES 20-1 - 5 credits

Prerequisite: 50% in Social Studies 10-1

Recommendation: 65% in Social Studies 10-1 or Social Studies 20-2

Students will explore the complexities of nationalism in Canadian and international contexts. They will study the origins of nationalism and the influence of nationalism on regional, international and global relations. The infusion of multiple perspectives will allow students to develop understandings of nationalism and how nationalism contributes to the citizenship and identities of peoples in Canada.

While nationalism has historically examined the relationship of the citizen to the state, contemporary understandings of nationalism include evolving individual, collective, national and state realities. Exploring the complexities of nationalism will contribute to an understanding and appreciation of the interrelationships among nation, nationalism, internationalism, globalization, and citizenship and identity. Developing understandings of the various points of view associated with nationalism as well as an appreciation for the perspectives of others will encourage students to develop personal and civic responses to emergent issues related to nationalism.

SOCIAL STUDIES 20-2 - 5 credits

Prerequisite: Social Studies 10-1 or Social Studies 10-2

Students will examine historical and contemporary understandings of nationalism in Canada and the world. They will explore the origins of nationalism as well as the impacts of nationalism on individuals and communities in Canada and other locations. Examples of nationalism, ultranationalism, supranationalism and internationalism will be examined from multiple perspectives. Students will develop personal and civic responses to emergent issues related to nationalism.

As perspectives on personal identity continue to evolve, so do understandings of nationalism and what it means to be a member of a collective, community, state and nation. This evolution is significant in the Canadian context as nationalism continues to shape visions of identity and nation. Understanding the significance of nationalism contributes to an appreciation and awareness of the interrelationships among nationalism, internationalism, citizenship and identity.

SOCIAL STUDIES 30-1 - 5 credits

Prerequisite: Social Studies 20-1

Recommendation: It is strongly recommended that the student has a 65% in Social Studies 20-1, or Social Studies 30-2 and that the course be taken in the student's grade 12 year.

This is an exciting new program that offers students the opportunity to explore the origins and complexities of political and economic principles that impact our world today. There is the examination of these concepts through multiple viewpoints. The investigation of classical and modern liberal thought will allow the student to critically analyze the viability of the principles of liberalism. The principles of liberalism have played a major role in the development of modern democratic societies that continue to transit through stages of development. It is through a comprehensive understanding of the evolution of modern liberal thought that we become active, informed and responsible citizens. This understanding will enable students to effectively investigate, analyze and evaluate government policies and actions that impact our world today. This course has a government diploma exam which accounts for 30% of the final grade.

SOCIAL STUDIES 30-2 - 5 credits

Prerequisite: Social Studies 20-2

Students will investigate multiple viewpoints regarding the relationship among individualism, liberalism, common good and collectivism. As one examines the various political and economic systems, this will allow students to determine the viability of the values of liberalism. Democratic societies are based on the key values of liberalism. As future active and responsible citizens, this requires students to have knowledge and skills to examine, analyze and evaluate a variety of political and economic combinations. An awareness of ideologies is key to comprehending and responding to local, national and global issues that impact our daily lives. This course has a government diploma exam which accounts for 30% of the final grade.

HUMANITIES OPTIONS

WORLD GEOGRAPHY 30 - 3 credits

Prerequisite: none

This course introduces students to physical geography of the earth and emphasizes human occupation. The lessons will deal with water resources, the earth's structure and landforms, climate, vegetation and soils. The course also deals with the reasons why humans settle where they do and how they use the earth's resources to make a living.

WESTERN WORLD HISTORY 30 - 3 credits

Prerequisite: none

This course will have the student investigate various western European events. Included in this study will be geography of the western world. The time period of the dark ages and the development of nationalism will be examined. The theme of absolutism (monarchs) and its origins will be covered. Such topics as revolutions in Europe and imperialist motives will be analyzed and researched.

CULTURAL & PHYSICAL

ANTHROPOLOGY 30 - 3 credits

Prerequisite: none

Anthropology concerns itself with all aspects of human life. This course will investigate what anthropology is and its meaning to the way of life of human beings. There will be an examination of Paleolithic time periods (the stone-age). Students will also examine traditional societies and societies ruled under empires (i.e. Roman, Persian and Ottoman Empires).

HISTORY THROUGH FILM 25 - 3 credits

Prerequisite: none

History through Film: Fact and Fiction 25 has at its core the intent to enlighten participants of the need to become informed citizens. As 21st century learners, there is an abundance of information available on historical events from numerous sources. One such source is through the film industry. This source may have the potential to create a mythical belief on some historical events that is solely for entertainment. At the same time it may create a presentation in the form of docu-movies for purposes of presenting information in an *unbiased* format. Then again, information may be presented in a sheer factual tone. As student access to information increases, one must be able to extract factual content from fiction. It would be the intent of History through Film: Fact and Fiction 25 to emphasize the importance of diversity displayed through film and the recognition of various experiences and perspectives in a world that is growing so ever closer together. It would be the intent of the course to recognize that some myths created through film are advantageous at the same time may well hinder the positive recognition of the diversity within the world.

History through Film: Fact and Fiction 25 is an inquiry based interdisciplinary course that draws upon history, geography, economics, philosophy, political science, and other social science disciplines. It instills in students an understanding and involvement in practical and ethical issues

PSYCHOLOGY 20 -3 credits

Prerequisite: none

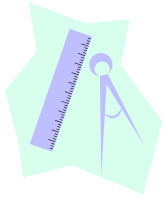
Students will negotiate a particular focus with their teacher at the commencement of the course. There are six themes, including personality theories, behaviour & development, heredity, biological influences, abnormal behaviour/treatment and career options in psychology.

EXPERIMENTAL PSYCHOLOGY 30 -3 credits

Prerequisite: none

Students will gain an understanding of the process of scientific experimentation in the field of psychology dealing with the scientific method, data display and interpretation, research ethics, methods and design of psychological research experiments.

MATHEMATICS DEPARTMENT

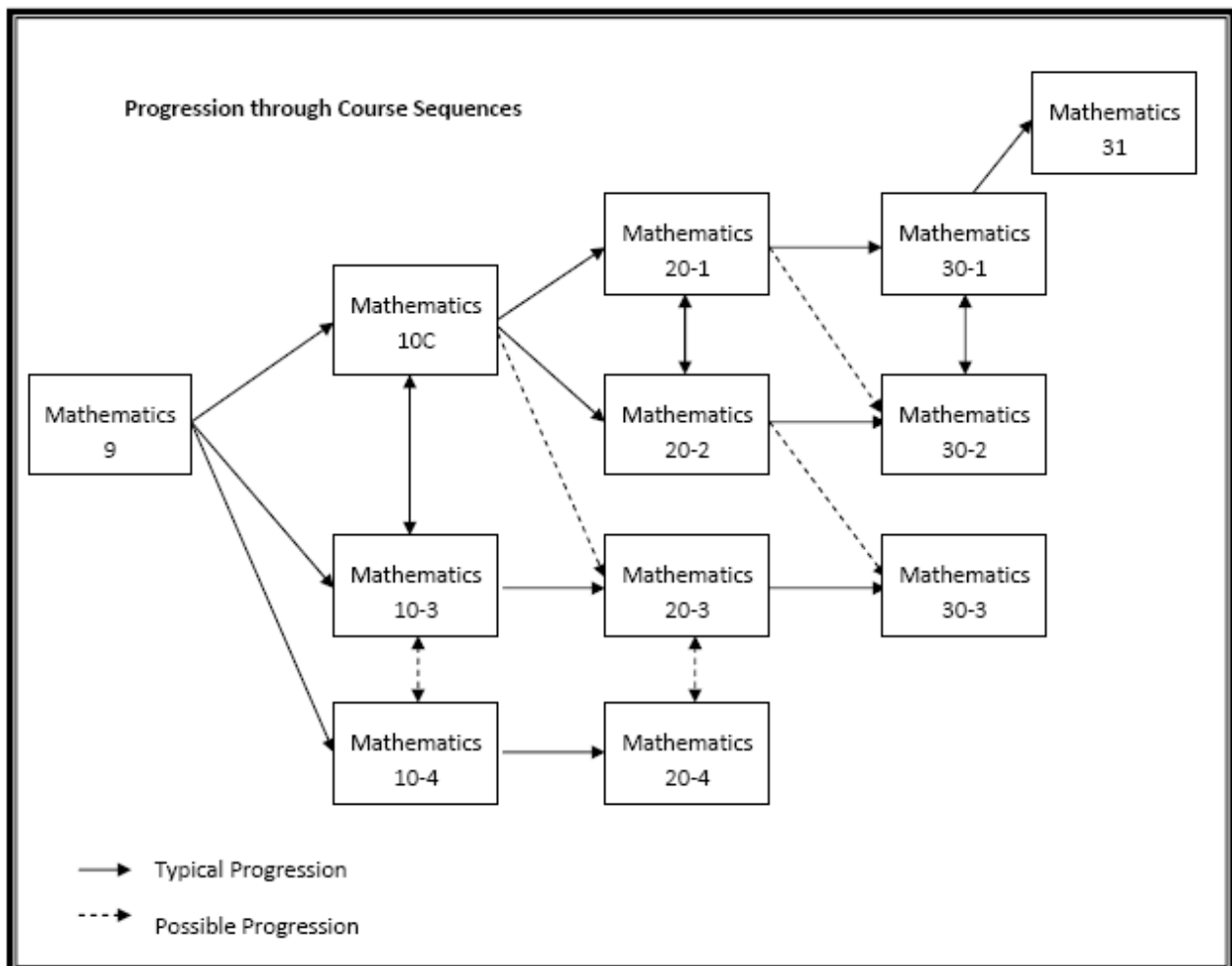
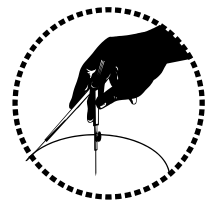


In September 2010, Alberta High Schools adopted a revised Curriculum that better prepares students for their futures in the 21st Century. The revised program of studies aligns with the revised K-9 mathematics curriculum in both content and philosophy.

Didsbury High School will be following the curriculum as set out by Alberta Education more information can be found at <http://education.alberta.ca/teachers/program/math.aspx>

The Math 10-3, 20-3, 30-3 series of courses are for students who are not intending to use mathematics at the post-secondary level, or who are interested in entering many of the trades.

The Math 30-1 and 30-2 course have a government diploma exam which accounts for 30% of the final grade.



The New High School Mathematics Program

Mathematics 10C - 5 credits

Prerequisite: 60% in Mathematics 9

The revised grade 10-12 Mathematics Program of Studies includes a combined Grade 10 course, Mathematics 10C, that is the starting point for the –1 and –2 course sequences. (see diagram on previous page) This will allow Mathematics 10C students to postpone choosing a mathematics course sequence until Grade 11. Mathematics 10C also offers students:

- a smoother transition from junior high to high school
- an opportunity to access more resources before making decisions about course sequences
- greater transferability between sequences if their career or post-secondary goals change

Mathematics 10-3 - 5 credits

Prerequisite: Students that struggle with math concepts and received less than 60% in Mathematics 9

This course is designed for students pursuing many apprenticeship programs.

Mathematics 20-1 - 5 credits

Prerequisite: Math 10-C or Math 20-2

Recommendation: 65% in Math 10-C or Math 20-2

This course is for students who **may require** post-secondary studies with programs involving Calculus.

Mathematics 20-2 - 5 credits

Prerequisite: Math 10-C

For students whose post-secondary studies **do not require the study of Calculus**.

Mathematics 20-3 - 5 credits

Prerequisite: Math 10-3

For students pursuing many apprenticeship programs or just requiring the minimum Math component for a High School Diploma.

Mathematics 30-1 - 5 credits

Prerequisite: Math 20-1 or Math 30-2

Recommendation: 65% in Math 20-1 or Math 30-2

This course is for students who **may require** post-secondary studies with programs involving Calculus.

Mathematics 30-2 - 5 credits

Prerequisite: Math 20-1 or Math 20-2

For students whose post-secondary studies **do not require the study of Calculus**.

Mathematics 30-3 - 5 credits

Prerequisite: Math 20-3

Mathematics 31 Calculus - 5 credits

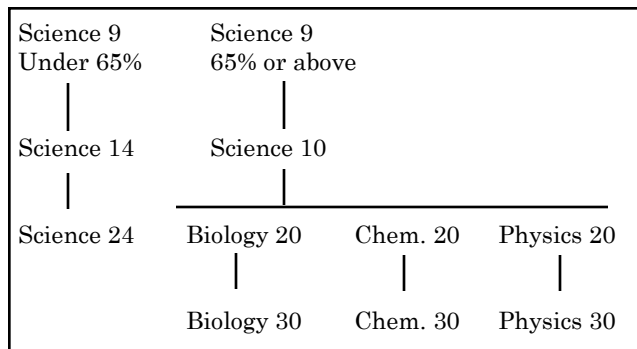
Prerequisite: Math 30-1

For students whose post-secondary studies will involve the study of Calculus.

SCIENCE DEPARTMENT

Students entering the Science 10 program need a strong science and math background.

RECOMMENDED FLOWCHART:



SCIENCE 10 - 5 credits

Recommendation: 65% in grade 9 Science

This course is a general overview of science studies covering introductory concepts in biology, chemistry, physics, and ecology. The Science 10 program demands math skills for solving basic algebra problems in both the chemistry and physics components. Many concepts in Science 10 are vital as background for success at the next level.

SCIENCE 14 - 5 credits

Prerequisite: difficulty in grade 9 science.

This course is designed for students who had difficulty with Science at Junior High level. Topics covered in Science 14 are: Systems of the Human Body; Household Science; Investigating the Environment; Understanding Technology; and an elective unit which the teacher chooses.

SCIENCE 24 - 5 credits

Prerequisite: Science 14

The topics covered in Science 24 include disease, energy consumption, material we use, safe transportation and an elective unit the teacher chooses.

SCIENCE 25/35 Forensics - 6 credits

Prerequisite: Science 24

Science 25/35 has been developed to allow students to pursue their interest and studies in science. This course is designed to allow the student to actively engage in science learning. Attendance & participation are critical components for this course.

BIOLOGY 20 - 5 credits

Prerequisite: Science 10

Recommended: minimum mark of 60% in Science 10

Biology 20 is composed of three key topics: the earth, the cell, and the human body. The fundamental concepts for ecology and the study of biosphere are followed by a focus on cellular structure and function with an emphasis on energy biochemistry. Lastly, and as a link to Biology 30, the human body's anatomy and physiology are studied.



BIOLOGY 30 - 5 credits

Prerequisite: Biology 20

Recommended: minimum mark of 60% in Biology 20

Biology 30 is a course designed to build on the concepts covered in Biology 20. The concepts are detailed and require intense study time. The course is divided up into four key units: systems regulating change in the human body, reproduction and development of humans, molecular and classical genetics of humans, and lastly, humans as a biosphere population. This course has a government diploma exam which accounts for 30% of the final mark.

CHEMISTRY 20 - 5 credits

Prerequisite: Science 10

Recommended: minimum mark of 60% in Science 10

Students will build on knowledge obtained in the Chemistry unit of Science 10 throughout this course.

- Unit A: The Diversity of Matter and Chemical Bonding
- Unit B: Matter as Gases
- Unit C: Matter as Solutions, Acids, and Bases
- Unit D: Quantitative Relationships in Chemical Change

CHEMISTRY 30 - 5 credits

Prerequisite: Chemistry 20

Recommended: minimum mark of 60% in Chemistry 20

Students will build on knowledge obtained in Science 10, and Chemistry 20 throughout this course.

- Unit A: Thermochemical Changes
- Unit B: Electrochemical Changes
- Unit C: Matter as Solutions, Acids, and Bases
- Unit D: Chemical Equilibrium

This course has a government diploma exam which accounts for 30% of the final grade.

PHYSICS 20 - 5 credits

Prerequisite: Science 10

Recommended: minimum mark of 60% in Science & Math 10

Physics is the most mathematical of the 20-level science courses. The five units are Kinematics and Dynamics; Projectiles; Circular Motion and Gravitation; Mechanical Waves; and Light.

PHYSICS 30 - 5 credits

Prerequisite: Physics 20

Recommended: minimum mark of 60% in Physics 20

This course is devoted largely to mathematical and logical processes involved in problem solving in the fields of conservation of energy and momentum electricity, magnetism and atomic structure with some consideration of the important philosophical problems in these fields. A survey of modern physical theories is included. This course has a government diploma exam which accounts for 30% of the final mark.

SECOND LANGUAGES

SPANISH 10-3Y – 5 credits

Prerequisite: None—this is a three year Spanish program, students can enter into this program with no prior Spanish courses.

This course follows the provincial Spanish 10 curriculum and will enable students to develop the knowledge, skills and attitudes needed to communicate in a basic way in the classroom and when travelling in a Spanish speaking country. An appreciation of Spanish speaking cultures, oral pronunciation and comprehension, along with basic conversational skills will be explored and developed through individual and group activities.

SPANISH 20-3Y – 5 credits

Prerequisite: Spanish 10-3Y

PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION 10 - 5 credits

Physical Education 10 is compulsory for all grade 10 students. The main emphasis is to encourage students to develop a positive attitude toward physical activity. A portion of class time will be spent on the development of skills required to play and enjoy a large number of individual and team games. Attendance and participation are the two most important criteria used in the evaluation of a students' progress in this course.

PHYSICAL EDUCATION 20 - 5 credits

Recommended Prerequisite: 60% in Physical Education 10

In Physical Education 20 the students will be introduced to a philosophy of sports which will encourage the student to become more aware of the importance of physical involvement as a continuing part of the student's lifestyle.

The student will be exposed to the academic aspect of athletics and will be expected to understand the basis on which each sport was developed. A one day down hill ski trip is always part of this program.



PHYSICAL EDUCATION 30 - 5 credits

Recommended Prerequisite: 60% in Physical Education 20

This program is designed to focus in the dual and individual activities. There is a strong emphasis on the fitness aspect and it's importance. Some theory will be presented to create a better understanding of fitness and first aid 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 & field, golf, tennis, swimming, curling, dance, racquet ball, weight 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, cycling trips and camping trips. On all trips, participation of the parents is welcome. Activities are selected at the instructor's discretion and the interest of the group.



CAREER AND TECHNOLOGY STUDIES

A “strand” is a group of modules. The following chart shows the 12 strands that comprise the CTS program choices available for students at DHS:

- *Communication Technology*
- *Construction Technologies*
- *Design Studies*
- *Fabrication Studies*
- *Sports Medicine*
- *Fitness Training*
- *Financial Management (Accounting)*
- *Foods & Nutrition*
- *Information Processing*
- *Mechanics*
- *Leadership*
- *Computer Aided Design (CAD)*

LEVELS OF ACHIEVEMENT

Introductory level courses are for grade 10's who have first priority. For Intermediate level courses grade 11's will have first priority and for Advanced modules grade 12's have first priority.

Introductory (10) level modules help students build daily living skills and form the basis for further learning, Introductory modules are developed for students who have no previous experience in the strand.

Intermediate (20) level modules build on the competences developed at the introductory level. They provide a broader perspective, helping students recognize the wide range of related career opportunities available within the strand.

Advanced (30) level modules demand a higher level of expertise and help prepare students for entry into the workplace or a related, post-secondary program.

See the teacher in the strand area for advice, brochures and detailed information about modules and courses.

CTS STRANDS

INDUSTRIAL EDUCATION

Industrial Education incorporates modules from several strands of the CTS curriculum: Construction Technology (woods), Fabrication Studies (welding & sheet metal), Design Studies (drafting), and Mechanics (small engines only). The modules offered during a course are dependent on class size and student interest. Students begin with introductory modules in grade 10 and work through to the advanced modules in grade 12. Students are responsible for the cost of materials that are required for their projects. Each module has prescribed elements that must be a part of students project.



EXAMPLE: If the module prescribed element is a drawer, then the student may choose any project to construct as long as it has a drawer or drawers as a part of it.

Project examples from the 2008/2009 school year: *Candle stands, salad bowls, sheet metal tool boxes, coffee and end tables, cabinets with drawers and panel doors, refurbished & refinished rocking chairs, cast aluminum name plates, black-smith fire poker, garden sheds, picnic tables, benches, calf feeders, futon beds, mission style chairs, mirror frames, and welded metal brackets.*



CTS STRANDS (Continued)

Business, Administration, Finance & Information Technology (BIT) includes topics such as Computing Science, Enterprise and Innovation, Financial Management, Information Processing, Management and Marketing and Networking.

Media, Design & Communication Arts (MDC) includes topics such as Communication Technology (photography, silk screening, video, web design and graphics) and Design Studies (computer aided design- CAD).

Others areas of study that may be offered, depending on student interest, include:

Natural Resources (NAT)
Health, Recreation & Human Services (HRH) (Legal Studies, Tourism and Community Health)

A cluster of modules may be put together for students interested in producing part of the yearbook. These modules will include digital photography, publishing, layout and design.



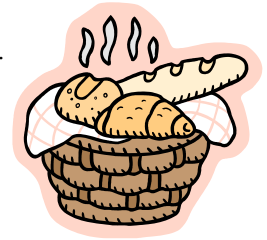
Computer Aided Design (CAD) - 3 credits

Students develop skills and techniques for 2-D and 3-D design by using tools, materials and processes common to 2-D and 3-D design to complete a variety of project activities.

FOODS STUDIES

FOODS

Domestic Foods (*Foods*) is a valuable course in which students develop basic knowledge, skills and attitudes through the preparation of a wide variety of foods. Emphasis can be directed towards personal or commercial food preparation. These courses are offered at introductory through advanced levels, with the number of credits depending on modules completed.



Introductory:

In these courses you will prepare a wide variety of recipes with emphasis on the safe use of kitchen and proper food handling techniques. We cover food basics and baking basics as well as other modules selected on the basis of your interest and abilities.

Intermediate:

In these modules, you will be encouraged to improve your cooking skills by working with yeast dough, pastries, pastas, soups, sandwiches and meal planning with emphasis on creating your own cooking "style".

Advanced:

In this course, advanced modules will be taught for those students who need 30 level credits. Modules include meat cutting, entertaining with food, advanced yeast products, meat cookery, cake decorating or international cookery.

Financial Management (Money Sense)

3 credits (FIN1010, FIN3060, FIN3070)

Many people — particularly young Canadians — lack good money skills. This course is specially created to give you the opportunity to:

- increase your financial knowledge, make informed decisions and avoid high levels of debt
- be aware of the choices that exist when choosing financial services or products, such as credit cards, loans or bank accounts
- discover the many benefits of being money savvy, such as developing good savings habits and taking steps to avoid being a victim of fraud
- learn how to avoid financial problems in the future by taking action now, and find out where to go for help

Students in this course will be expected to do some required readings that give different perspectives on retiring wealthy. There will be guest speakers from the financial industry such as bankers and financial planners.

CTS STRANDS (Continued)

TV/VIDEO PRODUCTION - 3 credits

The TV/Video Production is a specialty course based on 3 modules from the Communication Technology Courses: Audio/Video Production 1, Audio/Video 1, and Audio/Video 2. Students will have an opportunity to analyze commercials and film, create scripts and storyboards, as well as explore the areas of camera operations, shots and movements, lighting, and audio recording. Students will be evaluated on individual and group work.

LEADERSHIP 15, 25, 35 - 5 credits

In this course students will be involved with the development, organization and implementation of school and community activities. Students who are passionate about making a difference within their school and extended community would appeal to this course. Leadership will provide the student with the needed skills, knowledge and attributes that will put them on the “cutting edge” for employment success. This course involves project planning and volunteer hours outside of school time.

SPORTS MEDICINE/ATHLETIC THERAPY

3 credits

Sports Medicine, and in particular athletic training, has come a long way since the days of the “bucket and sponge”. Today a Sports Medicine Team of professionals, who are dedicated to the prevention, management, and rehabilitation of injuries serve the athlete. The athletic trainer is a key member of this team. The goal of this course is to provide information relevant to the needs of those who serve the athlete, be they athletic trainers, students, coaches and/or teachers. This course focuses on the musculoskeletal system, the role of the trainers, taping and wrapping techniques for common injuries, CPR, and first aid application to soft tissue. After successfully completing this class, you will be certified in Athletic First Aid.

FITNESS TRAINING - 3 credits

Students apply basic training and movement principles to health-related and performance-related components of fitness training, create fitness activities and develop a basic individual fitness plan to achieve goals for health related and performance-related components. Students will also examine fundamental attitudes, knowledge and skills to prepare for further study in pathways in health, recreation and community services. Concepts related to the determinants of health, the dimensions of wellness, basic principles of anatomy, physiology and disease, and basic safety and reporting protocols for providing care to individuals in health, recreation, volunteer and community support settings are reviewed .

TECH THEATRE—3 credits

Technical Theatre provides an excellent opportunity for those students who want to be involved with the Drama production but do not want to perform on stage. The major focus of Technical Theatre is to design, create, source and operate the features of the Drama production which give the show its setting and atmosphere. Possible components of study include: costume, lighting, makeup, management (business/house/stage), properties (props), set and sound. In a 3-credit course, students study one component; in a 5-credit course, they study two components. This course requires a strong investment of time and commitment outside of school hours to participate in preparing and running the production. Go to <http://education.alberta.ca/media/313060/drama10.pdf> for further details.

OFF CAMPUS COURSES

Only by registration with the counsellor.

WORK EXPERIENCE— 10 credits

The main function of the work experience program is to provide direction for career choices through use of the community as a realistic learning resource and by making students more employable because of increased entry level job skills.

GREEN CERTIFICATE - 16 credits

The Green Certificate Program provides trainees with opportunities to enter a variety of agriculture-related, structured learning pathways as a part of their senior high school program and to earn a credential leading to a career in agribusiness.

REGISTERED APPRENTICE PROGRAM

A Work Experience program giving students an opportunity to get a head start into a career in the trades. This career path will be introduced to all students in Grade 10.

DUAL ACCREDITATION COURSES

Offered on availability—Courses were not available at time of publication.

These courses may be available to DHS students and must be registered through the Guidance Department at DHS according to Olds College Registration Processes. See Mr. Klein in May and November for availability.

Fees

The fees listed are given as of September 2017 and may be adjusted before October 2017.

General Expenses



General Fees—Jr/Sr High

General Fee — Jr. High	\$79.00
(Includes \$1.00 Student Accident Insurance)	
General Fee — Sr. High	\$104.00
(Includes \$1.00 Student Accident Insurance)	
(Includes \$5.00 Diploma Exam materials)	
Yearbook (optional)	\$45.00
Locker & Lock Rental	\$2.00
Music—Instrument Rental	\$125.00
Music—Instrument Rental-Percussion	\$50.00
Community Use Fee (all Phys. Ed. students)	\$14.00
Grade 9 Gym Strip	\$30.00
(Includes T-Shirt & Shorts)	

Course Fees—Senior High

Physical Education 20	\$50.00
Physical Education 30	\$50.00
Art 10, 20	\$21.00
Art 30	\$35.00
Food Studies	- per 3 credit \$31.00
Industrial Ed.	- per 3 credit \$21.00
	- Project Fees Vary
Sports Med.	- 3 credits \$21.00
Information Processing	- 3 credit \$21.00
Fin. Mang. (Money Sense)	- 3 credits \$21.00
Fitness & Training	- 3 credits \$21.00
CAD	- 3 credits \$21.00
Theatre Tech	- 3 credits \$21.00

Course Fees—Junior High

Grade 9 Shop	\$21.00
Grade 9 Foods	\$21.00

Please note:

- Course fees will not be refunded if the student drops the course after 30 days.

Courses Offered 2017-2018

Fine Arts		
Art 10		3
Art 20		3
Art 30		5
Drama 10	Outside of timetable—by audition only	
Drama 20	Outside of timetable—by audition only	
Drama 30	Outside of timetable—by audition only	
Instr. Music 10		5
Instr. Music 20		5
Instr. Music 30		5
Music 15	Outside of timetable	
Instr. Jazz		5
Music 25	Outside of timetable	
Instr. Jazz		5
Music 35	Outside of timetable	
Instr. Jazz		5

Physical Education		
Phys. Ed 10		5
Active Choices - P.E. 10 - G		5
Phys. Ed 20		5
Phys. Ed 30		5

CTS		
Industrial Education		3
Tech Theatre		3
Foods & Nutrition		3
Computer Aided Design (CAD)/Info Processing		3
Leadership		5
Financial Management (Money Sense)		3
Fitness Training		3
Sports Medicine		3

Personal Development Courses		
CALM		6
Anthropology 30		3
Psychology 20		3
Experimental Psychology 30		3
Western World History 30		3
World Geography 30		3
History Though Film 25		3

Modern Languages		
Spanish 10/20		5

Courses Offered 2017-2018

English Courses	
English 10-1	5
English 10-2	5
English 20-1	5
English 20-2	5
English 30-1	5
English 30-2	5

Mathematics	
Math 10-C	5
Math 10-3	5
Math 20-1	5
Math 20-2	5
Math 20-3	5
Math 30-1	5
Math 30-2	5
Math 30-3	5
Math 31	5

Social Studies	
Social Studies 10-1	5
Social Studies 10-2	5
Social Studies 20-1	5
Social Studies 20-2	5
Social Studies 30-1	5
Social Studies 30-2	5

Science	
Science 10	5
Science 14	5
Biology 20	5
Chemistry 20	5
Physics 20	5
Science 24	5
Biology 30	5
Chemistry 30	5
Physics 30	5
Forensics 25/35	6

High School Courses Planning Guide

Use the following grids to plan your grade 10, 11 and 12 courses

Grade 10

Course	Credits	Course	Credits

Credits: _____

Grade 11

Course	Credits	Course	Credits

Credits: _____

Grade 12

Course	Credits	Course	Credits

Credits: _____



DIDSBURY HIGH SCHOOL

2017-2018 Program Course Information

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