



**STAR Catholic**  
*Outreach School*

**2023-2024**

**Information**

**Handbook**



## **An Overview of Outreach**

Welcome to STAR Catholic Outreach School and to St. Thomas Aquinas Catholic Schools! Our enthusiastic team continually extends themselves to ensure each student has every opportunity to reach their potential in a safe and supportive environment. Please take a moment to familiarize yourself with the information contained in this handbook and feel free to contact us if you have any questions. We trust that you will have a wonderful school year and we look forward to working with you toward achieving your goals.

### **Division Mission Statement**

“Rejoicing in the way of Christ, we nurture a love of learning in faith-filled Catholic schools!”

### **STAR Catholic Outreach Mission Statement**

“We are a Christ-centered, Catholic community that fosters a hope-filled environment where all students reach high levels of growth and success.”

### **What is Outreach?**

STAR Catholic Outreach strives to provide our students a Christ-centered Catholic education through a self-directed, alternate delivery approach. We reach out to those students whose needs may not be met in the more traditional education model. Our flexible scheduling, anywhere-anytime learning format, hours of operation, and off-campus education programs are all tailored to have the programming fit the student rather than the student fit the program. This delivery model tends to suit students who:

- wish to learn in a more independent manner.
- are looking to get ahead in their studies.
- need to upgrade (including adult students)
- are experiencing scheduling or peer conflicts.
- have commitments outside of school with either work or activities.

We work to personalize the student’s learning experience within a caring and faith-filled learning community. Our school follows an independent learning model which means that you – the student – are responsible for setting educational goals for yourself with the assistance of the STAR Outreach staff. Together, we will develop a time frame for your coursework to be completed.

## School Contact Information

Dean Heck (Principal)



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Deb Wiesener (Admin Assistant)



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Math / Science



[fiona.lesoway@starcatholic.ab.ca](mailto:fiona.lesoway@starcatholic.ab.ca)

**Address:** **New Location for 2023-2024**  
 Attached to Christ the King School  
 3511 Rollyview Road  
 Leduc, Alberta  
 T9E 6N4

**Phone:** 780-980-0955

**Website:** <http://or.staratholic.ab.ca>

**Hours of Operation** Varies – Please check the Website.

**Terms Dates 2023/2024:**

	January Course Completion	April Course Completion	June Course Completion	Full Year (Sep-Jun)
<b>Course Start Date</b>	Sep 6	Nov 6	Feb 5	Sep 6
<b>Registration Deadline</b>	Oct 11	Dec 20	Mar 6	Dec 20
<b>Midterm Date</b>	Nov 3	Jan 26	Apr 12	Jan 26
<b>Withdraw Deadline</b>	Nov 10	Jan 31	Apr 19	Jan 31
<b>Diploma Coursework Due</b>	Humanities - Dec 20 Math/Science - Jan 15	Humanities - Apr 2 Math/Science - Apr 3	Humanities - Jun 4 Math/Science - Jun 10	Humanities - Jun 4 Math/Science - Jun 10
<b>Non-Diploma Coursework Due</b>	Jan 17	Apr 3	Jun 12	Jun 12
<b>Diploma Exams</b>	Dates are Course Specific	Dates are Course Specific	Dates are Course Specific	Dates are Course Specific
<b>Non-Diploma Exam Week</b>	Jan 22-26	Apr 8-12	Jun 14-20	Jun 14-20

**Note:** We are a writing center for diploma exams for January, April, & June.

## How to Register

### **Students attending a STAR Catholic Senior High School (InterEd Students):**

You must be referred by either your Principal or Guidance Counsellor for each course that you wish to take at STAR Outreach.

### **Outreach Students – you are NOT currently registered at a STAR Catholic High School or you are a returning graduated STAR student:**

You can access the registration package at <https://or.star catholic.ab.ca/parents/registration>. You will be required to download a copy of your citizenship document. Also, if you are under 18, we will require a parent/guardian signature on the registration form. All fees can be paid with one payment either by cash or through School Cash On-line.

The following is required to register:

- a completed registration form.
- An email to the Admin Assistant indicating which course(s) you are wanting to take.
- a signed *Appropriate Use of Technology Agreement*
- a photocopy of Canadian birth certificate, Canadian passport, or proof of permanent residency/landed immigrant status
- a non-refundable \$21.00/school year Technology Fee per student
- a non-refundable \$58.00/school year Registration Fee
- Adult fee if applicable

Counsellor support is available to you to assist you with academic planning if required.

### **Adult Education at Outreach**

Alberta Education offers funding for students who are 19 years of age or younger **as of September 1<sup>st</sup>**. For mature students (those who are 20 years old as of September 1<sup>st</sup>), STAR Outreach can offer high school credit but a tuition fee applies to all courses. These fees can be paid either by cash, or through School Cash On-line.

For mature students, the total tuition will be \$655 for a 5-credit course offered by Outreach. See below for payment structure:

- 1) Payment required upon registration (non-refundable)
  - \$21.00/school year (Technology Fee).
  - \$58.00/school year (Registration fee).
  - \$131.00 (per credit)

- Mature students can challenge a diploma exam without taking formal instruction in the course. Please contact the school if interested in this option.
- For students going through Alberta Works, please contact the secretary.

**For More Information regarding our three program offerings, please review the following Frequently Asked Questions Documents for each type of learner:**

**[Outreach Only Education](#)**

**[Adult Education](#)**

**[InterEd Education](#)**

### **Course Challenges**

Any student has the opportunity to challenge a course (where allowed by Alberta Education) by completing the final exam. To do this you need to apply to the school administrator. Note that this only applies to the school awarded mark portion for diploma exam courses as students still need to write the diploma exam to be eligible for a final course mark and credit in that course. Students must be a registered at the Outreach to challenge a course.

### **Exam Proctoring**

Exam proctoring is offered as STAR Catholic Outreach depending on both staff and room availability. The fee for students is \$35.00 per exam. Please contact us for more information.

### **Diploma Exam Schedule**

All students REWRITING diploma exams MUST register and pre-pay DIRECTLY with Alberta Education by the established deadlines to ensure an exam and label will be supplied to the school for the diploma writing session. Go to [mypass.alberta.ca](https://mypass.alberta.ca)

2023-2024 Rewrite Registration and Pre-payment Deadlines:

<u>Writing Session</u>	<u>Deadline</u>
January 2024	November 1, 2023
April 2024	February 17, 2024
June 2024	April 4, 2024

# General Information

## The Independent Learning Environment

The courses at STAR Outreach are designed to be completed independently. Teachers are available at the school for one-on-one assistance when students require help, but there are no scheduled instruction times. Google meets can be scheduled for one-on-one time with the teacher. It is up to you, the student, to be working through materials and making notes as you go. **Teachers will contact students in order to discuss their coursework, address any concerns, and suggest areas in which the student can improve.**

When you begin a course, you will typically receive a textbook/resource and access to on-line courses. Your teacher will advise you further on accessing this information.

If you hand in a module and receive a mark that is less than 50%, your teacher may discuss with you ways to improve your mark.

Once you have completed all the coursework, there will be a final assessment. For non-diploma courses, you will write a closed-book final exam worth 30% of your mark. Making your course work (including your mid-term exam) worth 70% of your mark. For diploma courses, your term work along with a school mid-term and final exam will make up 70% of your final mark and your diploma exam the remaining 30%. Subject to the Gov't of Alberta weighting of diploma exams. Final exams and reviews must be written to receive credit in the course.

**All course material is to be turned in prior to writing your final or diploma exam. Students are responsible for all lost or damaged materials.**

Your final course marks can be viewed on your STAR PowerSchool account. If you require assistance in setting up your account, please contact the school admin assistant.

### Facility

STAR Outreach has a non-attendance policy. This means that you are **not required** to attend our school for any specific period of time, but you are always welcome to work at our facility. We have independent carrels, tables for small groups, and computer stations with printer access for research and writing. We gather for daily prayer each day and encourage students to support our Mercy Projects. As part of the St. Thomas Aquinas Roman Catholic School division, STAR Outreach has access to all support services offered by the division. Below are student conduct guidelines, for more information please see our School



Division's Student Code of Conduct Administrative Procedure (AP 350) at:  
<https://www.starcatholic.ab.ca/division/documents#category/6161>

### **Electronic Devices**

Students may access the school's Wi-Fi network for cell phones and personal laptops upon staff approval and submission of a signed *Acceptable Use of Technology Agreement*. All registered students who have submitted a signed Division Technology Agreement will receive a google account. A reminder that technology used in the school should be for course work only.

You may have your phone on vibrate, but we ask that you please step outside to take a phone call to not interrupt other students. If you wish to listen to your own music, you are encouraged to bring headphones and keep the volume at a reasonable level. Please ensure that when working at the Outreach you are not disruptive and are being respectful toward staff and fellow students.

### **Dress**

Students are expected to support standards of dress and grooming that reflect the school's purpose as a place of learning. Students need to be sensitive to the values and expectations of our Catholic community. The following guidelines will be observed:

- Cleanliness and neatness – Clothes and shoes should be clean.
- Safety and health – Shoes must be worn at all times.
- Clothes must not display slogans or graphics which are disrespectful, controversial, obscene, and/or involve drugs or alcohol.
- Be modest in your dress - revealing clothing is inappropriate.

**School personnel reserve the right to make any required judgments in the above areas and address any concerns.**

### **Prohibited Substances**

STAR Catholic Outreach is a smoke-free campus for all students, staff and visitors. This includes the parking lot and inside vehicles on school property. Students also cannot be under the influence or in possession of drugs or alcohol or have in their possession paraphernalia related to drugs or alcohol while attending school or during school supervised activities. Failure to adhere to these guidelines will result in immediate disciplinary action.

### **Parking**

Students attending STAR Catholic Outreach are to park in the lot on the west side of the building.

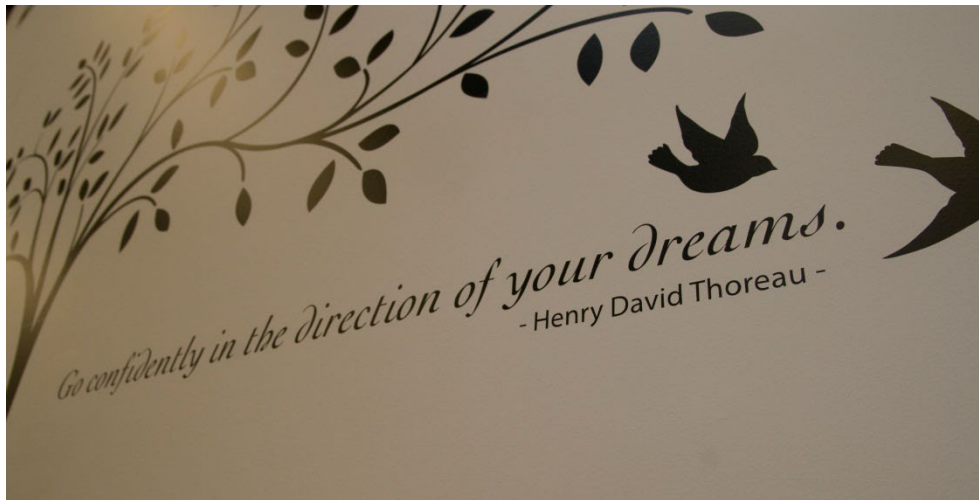
### **Incomplete Assignment Escalation Procedure**

1. If you have not been in contact with the teacher or turned in any work within **2 weeks** of starting a course, an email and phone call will be made to you, and your parents (for students under 18 years of age) along with a cc of the email being sent to your counsellor/designate (for shared students).



2. If you have not be in contact with the teacher or turned in any work within **4 weeks** of starting a course, an email and phone call will be made to you, your counsellor/designate (for shared students) and your parents (for students under 18 years of age) to advise that the completion of the course may be in jeopardy.
3. If you have not be in contact with the teacher or turned in any work within **6 weeks** of starting a course, an email and phone call will be made to you, your counsellor/designate (for shared students) and your parents (for students under 18 years of age) to advise that if no work is completed within two weeks that you will be withdrawn from the course.
4. If you have not be in contact with the teacher or turned in any work within **8 weeks** of starting a course, an email and phone call will be made to you, your counsellor/designate (for shared students) and your parents (for students under 18 years of age) to advise that you have been withdrawn from the course.

**Remember:** Our goal is to assist you in achieving your goals!



### **Plagiarism Guidelines**

As a student of our school, you should be aware that STAR Catholic Outreach School takes plagiarism very seriously. We do not wish to encourage any form of dishonesty at our school. As well, we know that the consequences of plagiarism as you continue on in your education become more and more serious. As a STAR Catholic Outreach student, you should be aware of the following information:

#### **What is Plagiarism?**

Plagiarism, like cheating, is an act that directly challenges the concept of intellectual honesty. It occurs when a person....

- Hands in someone else's work as their own. This applies to direct presentation of someone else's work, a paraphrase of their work, or even direct inclusion of turns of phrase from someone else's writing. In these instances, plagiarism is most likely intentional. Even when you are “working with” another student or receiving help from a tutor/parent, the work you hand in must be in your own individual and unique words.
- Cites sources improperly. Again, this applies to direct quotations, paraphrased ideas, and even turns of phrase. In these instances, plagiarism may well be unintentional, but it is still plagiarism, nonetheless. (*from 2learn.ca Education Society's "Net Know-how"*)

### **How to Avoid Plagiarism:**

- If you do not understand how to complete an assignment, ask your teacher for help. They will be able to support you completing your assignments yourself. This will ensure that you will understand the material and will be able to show this understanding on your final exam and in future courses. By copying, you are stopping yourself from learning the material which can majorly impact your success in the future.
- Ask your teacher for examples of the type of assignment that you are working on. For example, if you are writing an essay, an example of another essay may help you organize your ideas.
- Keep copies of your rough work (brainstorming, pre-writing activities, rough drafts, etc.) If your teacher has any doubts that the work you have handed in is your own, you can show them this original work.
- Keep a research log. When finding information, graphics, pictures, etc. that you will need for your assignment, make sure that you are keeping track of where the information is coming from. Write down (or copy and paste) ALL of the information you will need for your bibliography or works cited page.
- Make sure you are citing any ideas, direct quotes, pictures, etc. within your assignment or in a bibliography or works cited page. If you are unsure how to cite sources, please consult with your teacher or check on-line.

## **Consequences of Plagiarism at STAR Catholic Outreach:**

Outreach takes a progressive approach to plagiarism to educate and correct the behavior. If a student is found to have plagiarized work, the following steps are taken:

**Warning:** Teachers decide if a warning happens instead of calling the first instance.

### **First Instance**

- Students are assigned a mark of zero and are given a chance to redo the question or the assignment. It is up to the teacher's discretion whether or not to assign a mark of zero on the plagiarized question or on the entire assignment.

### **Second Instance**

- The student is assigned a mark of zero with no chance to redo the question or the assignment. It is up to the teacher's discretion whether to assign a mark of zero on the plagiarized question or on the entire assignment.
- The Principal is notified.

### **Third Instance**

- Student is removed from the course.

# Course Planning

## High School Diploma

### ALBERTA HIGH SCHOOL DIPLOMA: GRADUATION REQUIREMENTS

The requirements indicated in this chart are the minimum requirements for a student to attain an Alberta High School Diploma. The requirements for entry into post-secondary institutions and workplaces may require additional and/or specific courses.

ALBERTA HIGH SCHOOL DIPLOMA: GRADUATION REQUIREMENTS (ENGLISH)
The requirements indicated in this chart are the <u>minimum</u> requirements for a student to attain an Alberta High School Diploma. The requirements for entry into post-secondary institutions and workplaces may require additional and/or specific courses.
100 CREDITS including the following:
ENGLISH LANGUAGE ARTS – 30 LEVEL (English Language Arts 30-1 or 30-2)
SOCIAL STUDIES – 30 LEVEL (Social Studies 30-1 or 30-2)
MATHEMATICS – 20 LEVEL (Mathematics 20-1, Mathematics 20-2 or Mathematics 20-3)
SCIENCE – 20 LEVEL <sup>1</sup> (Science 20, Science 24, Biology 20, Chemistry 20 or Physics 20)
PHYSICAL EDUCATION 10 (3 CREDITS) <sup>2</sup>
CAREER AND LIFE MANAGEMENT (3 CREDITS) <sup>3</sup>
10 CREDITS IN ANY COMBINATION FROM:
<ul style="list-style-type: none"> <li>• Career and Technology Studies (CTS) courses</li> <li>• Fine Arts courses</li> <li>• Second Languages<sup>4</sup> courses</li> <li>• Physical Education 20 and/or 30</li> <li>• Knowledge and Employability courses</li> <li>• Registered Apprenticeship Program courses</li> <li>• Locally developed/acquired and authorized courses in CTS, fine arts, second languages or Knowledge and Employability occupational courses<sup>5</sup></li> </ul>
10 CREDITS IN ANY 30-LEVEL COURSE (IN ADDITION TO A 30-LEVEL ENGLISH LANGUAGE ARTS AND A 30-LEVEL SOCIAL STUDIES COURSE AS SPECIFIED ABOVE) <sup>6</sup>
These courses may include:
<ul style="list-style-type: none"> <li>• 30-level locally developed/acquired and authorized courses</li> <li>• Advanced level (3000 series) in Career and Technology Studies courses</li> <li>• 30-level Work Experience courses<sup>7</sup></li> <li>• 30-level Knowledge and Employability courses</li> <li>• 30-level Registered Apprenticeship Program courses</li> <li>• 30-level Green Certificate Specialization courses</li> <li>• Special Projects 30</li> </ul>

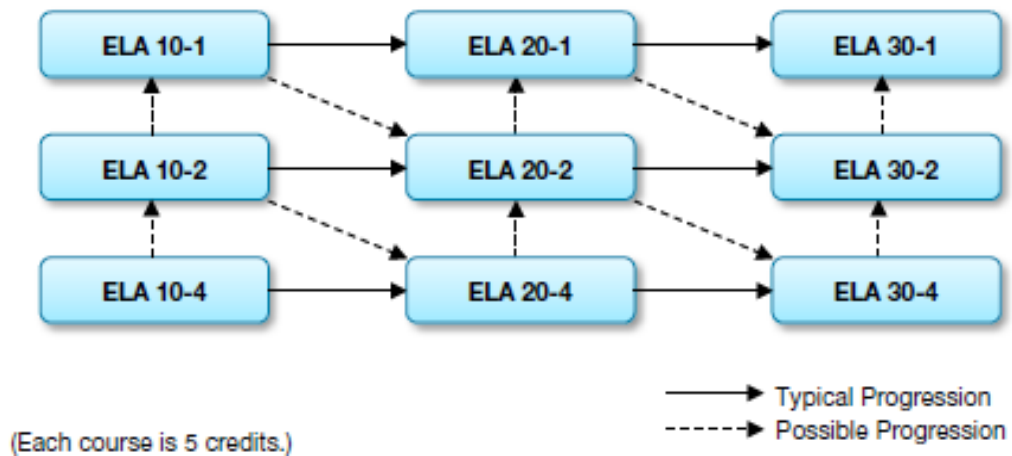
## Courses Offered at STAR Outreach

The information on the following pages describes all the high school courses offered to you at STAR Catholic Outreach. We recommend that you read about the courses before making your selections. For more information on Senior High Curriculum visit the Alberta Education Website. Prerequisites listed are based on Alberta Educations recommendations.

### English

Study in English enables students to use language confidently and competently in a variety of situations for communicating, personal satisfaction and learning. Students become confident and competent users of language arts through many opportunities to listen and speak, read and write, and view and represent in a variety of combinations and relevant contexts.

#### English Language Arts (ELA) Program



### English 10-1

#### Prerequisite: 65% in Language Arts 9

In the English 10-1 program, a student relates literary experience to personal experience; develops competence in presenting ideas in written and oral form; understands and identifies themes; recognizes stylistic devices; and learns to identify errors in grammar, usage, punctuation, and spelling.

## **English 10-2**

### **Prerequisite: Less than 65% in Language Arts 9**

In the English 10-2 program, a student produces personal and exploratory writing; proofreads writing for errors; reads literature to expand experience vicariously; distinguishes between fact and opinion; observes courtesies of group discussion; and responds with increasing sensitivity to material he/she reads, listens to, and views.

## **English 20-1**

### **Prerequisite: 65% in English 10-1**

In English 20-1 a student builds and expands upon those skills and concepts developed in English 10-1. He/she learns to write a convincing argument in support of a clearly defined thesis; relates literary concepts such as theme, point of view, tone to the effect of a piece of literature; and becomes acquainted with the work of major Canadian authors.

## **English 20-2**

### **Prerequisite: 50% in English 10-2**

Building upon skills developed in English 10-2, the English persuasive writing 20-2 student learns to write for different audiences and purposes; to plan compositions before writing; to examine values and ideas expressed through literature; to correct errors in his/her writing; to discuss purpose and effect of print and image; and to express thoughts clearly and with confidence.

## **English 30-1**

### **Prerequisite: 65 % in English 20-1**

In addition to building upon and enriching those skills and concepts developed in English 10-1 and 20-1, an English 30-1 student learns to clearly present his/her point of view in a literary essay; to understand and evaluate literary techniques; to distinguish life from literature; and to develop mature interpretive skills.

## **English 30-2**

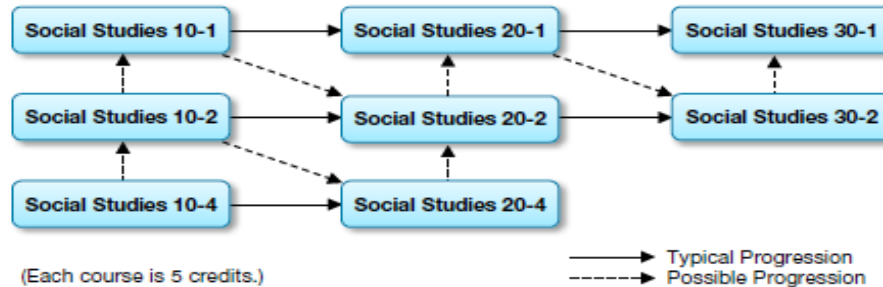
### **Prerequisite: 50% in English 20-2**

English 30-2 students learn to write clear functional prose; to appraise values and ideas in literary selections; to distinguish between emotional appeal and reasoned argument; to respond clearly to visual communication, and to increase facility in disc

## Social Studies

Social Studies provides opportunities for students to develop attitudes, skills and knowledge that will enable them to become engaged, active, informed, and responsible citizens. Recognition and respect for individual and collective identity is essential in a pluralistic and democratic society. Social studies help students develop their sense of self and community, encouraging them to affirm their place as citizens in an inclusive, democratic society.

### Social Studies Program



**Note:** Students generally take the prerequisite in a course sequence (e.g., English Language Arts 10-1, 20-1, 30-1). This route is designated by solid arrows. However, Alberta Education recognizes that students may transfer between course sequences and these recommended routes are designated by broken arrows.

The school authority shall have a policy that clearly states the criteria to be met by a student who wishes to change program routes.

## Social Studies 10-1

### Prerequisite: 65% in Social Studies 9

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

## Social Studies 10-2

### Prerequisite: Less than 65% in Social Studies 9

Students will explore historical aspects of globalization as well as its effects 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.

## **Social Studies 20-1**

### **Prerequisite: 65% in Social Studies 10-1**

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 contributed to the citizenship and identities of peoples in Canada.

## **Social Studies 20-2**

### **Prerequisite: 50% in 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, ultra-nationalism, supranationalism, and internationalism will be examined from multiple perspectives. Students will develop personal and civic responses to emergent issues related to nationalism.

## **Social Studies 30-1**

### **Prerequisite: 65% in Social Studies 20-1**

Students will explore the origins and complexities of ideologies and examine 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. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues.

## **Social Studies 30-2**

### **Prerequisite: 50% in Social Studies 20-2**

Students will examine the origins, values, and components of competing ideologies. They 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. Developing understandings of the roles and responsibilities associated with citizenship will encourage students to respond to emergent global issues.



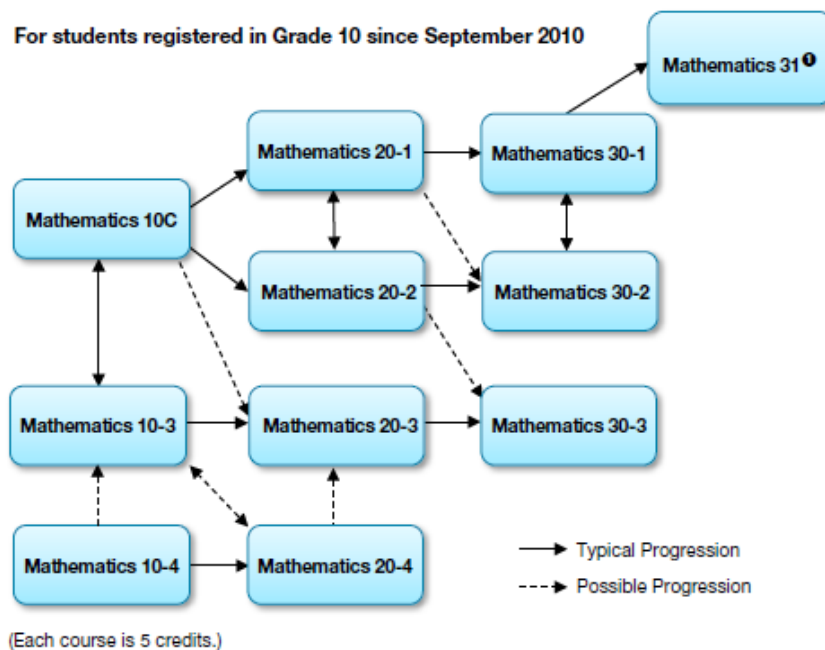
## Mathematics

Alberta's math program encourages students to develop mathematical reasoning and problem-solving skills and make connections between mathematics and its applications. Our program also builds students' confidence in their mathematical skills and appreciation of the subject. Alberta's math programs require that students can not only add, subtract, multiply and divide, but that they also know how to reason and solve problems in real-life situations.

### Mathematics Program

#### Possible Sequences—Mathematics Course Sequences

For students registered in Grade 10 since September 2010



## Mathematics 10C

### Prerequisite: Above 65% in Mathematics 9

This course will lead you into either the “-1” or the “-2” Course Sequence. The “-1” Course Sequence (Math 20-1 and 30-1) is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus. Topics in the “-1” sequence include: algebra and number; measurement; relations and functions; trigonometry; and permutations, combinations and binomial theorem. The “-2” Course Sequence (Math 20-2 and 30-2) provides the mathematical understandings and critical thinking skills identified for post-secondary studies that do not require calculus. Topics in this sequence include: geometry, measurement, number and logic, logical reasoning, relations and functions, statistics, and probability.

### **Mathematics 10-3**

**Prerequisite: Recommended for students with less than 50% in Mathematics 9**

This course will lead you into the “-3” Course Sequence (Math 20-3 and 30-3). This sequence is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into most of the trades and for direct entry into the workforce. Topics include: algebra, geometry, measurement, number, statistics and probability.

### **Mathematics 20-1**

**Prerequisite: 65% in Mathematics 10-C**

Mathematics 20-1 is for students who plan to enter post-secondary programs such as engineering, mathematics, sciences, some business studies, or other programs that require advanced math skills. The sequence may be required for post-secondary calculus courses. Mathematics 20-1 includes topics such as absolute value, Radical, rational, reciprocal, and quadratic functions, as well as factoring, sequences and series, and trigonometry.

### **Mathematics 20-2**

**Prerequisite: 50% - 64% in Mathematics 10-C**

Students that have successfully completed Math 10C with marks between 50% and 70% are recommended to take Mathematics 20-2. This course is designed for students who want to attend a university, or college, or technical institute after high school, but do not need calculus. Topics include measurement, geometry, number and logic, statistics, and relations and functions.

### **Mathematics 20-3**

**Prerequisite: >50% 10-3 or 40-49% in 10C**

Mathematics 20-3 has 4 general learner outcomes that build on skill learned in Mathematics 10-3. General Outcome #1 Measurement: Students will develop spatial sense through direct and indirect measurement. General Outcome #2 Geometry: Students will develop spatial sense. General Outcome #3 Number: Students will develop number sense and critical thinking skills. General Outcome #4 Algebra: Students will develop algebraic reason.

### **Mathematics 30-1**

**Prerequisite: 65% in Mathematics 20-1**

This course is designed to provide students with the understanding and thinking skills identified for entry into post-secondary programs that require the study of calculus. Topics covered include: algebra and number, measurement, relations and functions, trigonometry, permutations/combinations and binomial theorem.

## **Mathematics 30-2**

### **Prerequisite: 50% in Mathematics 20-2**

This is the concluding course in this sequence. This course is designed to provide students with the understanding and thinking skills identified for entry into post-secondary programs that do not require the study of calculus. Topics covered include geometry, measurement, number and logic, logical reasoning, relations and functions, statistics and probability.

## **Mathematics 30-3**

### **Prerequisite: >50% Mathematics 20-3**

This course is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into most trades and for direct entry into the workforce. Topics include algebra, geometry, measurement, number, statistics, and probability.

## **Mathematics 31**

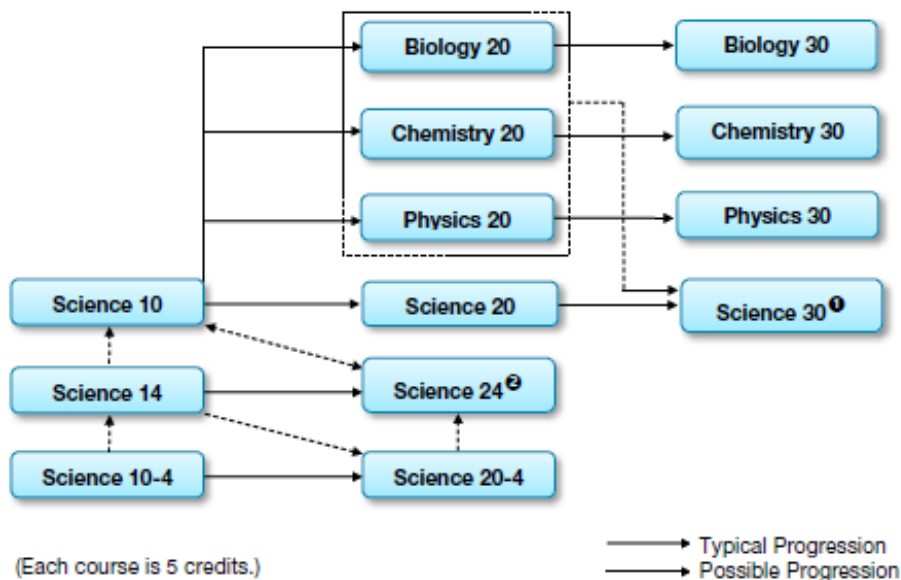
### **Co-requisite: Mathematics 30 -1**

This course is designed for highly motivated, academic students who wish to pursue a first course in calculus. Mathematics 30-1 must be taken as a pre or corequisite course. The topics of polynomial functions, series and sequence and trigonometry from Mathematics 30-1 program are applied in this course

## Science

The secondary science program is guided by the vision that all students can develop scientific literacy. Students will develop the science-related knowledge, skills, and attitudes that they need to solve problems and make decisions, and at the same time help them become lifelong learners— maintaining their sense of wonder about the world around them.

### Science Program



- ❶ Students who have achieved a final mark of 50% or greater in Biology 20, Chemistry 20, Physics 20 or Science 20 may enrol in Science 30.
- ❷ Although the recommended transfer point from Science 24 is to Science 10, in exceptional cases, students may be placed by the principal in 20-level courses, as serves the student's best interests.

## Science 10

### Prerequisite: 65% or higher in Grade 9 Science

Science 10 is the prerequisite for all students intending to study any academic science at the Grade 11 or 12 levels. Proficiency in mathematical skills at the junior high level is required for success in Science 10. Unit A is entitled Energy and Matter in Chemical Change and has a Nature of Science emphasis. Unit B is Energy Flow in Technological Systems and has a Science and Technology emphasis. Unit C is Cycling of Matter in Living Systems with a Nature of Science emphasis. Unit D is Energy Flow in Global systems with a Social and Environmental Contexts emphasis.

## **Science 14**

**Prerequisite: Recommended for students with less than 65% in Grade 9 Science.**

Science 14 is a general science course that introduces students to relevant, practical, and concrete applications of science concepts. It is designed to improve basic skills and attitudes to help students investigate properties of matter, understand energy transfer technologies, investigate matter and energy in living systems and investigate matter and energy in the environment.

## **Science 20**

**Prerequisite: 50% or higher in Science 10**

This academic program is designed for the student who is interested in science but does not require specific courses in biology, chemistry, or physics for post-secondary education. This program integrates concepts related to physical, biological and Earth sciences. The topics covered include: 1) Chemical Changes, 2) Changes in Motion, 3) The Changing Earth and 4) Changes in Living Systems.

**Note:** This program will be offered pending student interest.

## **Biology 20**

**Prerequisite: 65% in Science 10**

The underlying theme of Biology 20 is energy and matter exchange. The program emphasizes the interrelationships among science, technology, and society. The four topics covered in this academic program are: 1) Energy and Matter Exchange in the Biosphere, 2) Ecosystems and Population Change, 3) Photosynthesis and Cellular Respiration and 4) Human Systems.

## **Chemistry 20**

**Prerequisite: 65% in Science 10**

In Chemistry 20 students are given the opportunity to explore and understand the natural world and to become aware of the profound influence of chemistry on their lives. The four topics covered in this academic course include: 1) The Diversity of Matter and Chemical Bonding, 2) Forms of Matter: Gasses, 3) Matter as Solutions, Acids and Bases, 4) Quantitative Relationships in Chemical Changes.

## **Physics 20**

**Prerequisite: 65% in Science 10 and Math 10C**

Physics 20 helps students understand the physics principles behind the natural events they experience and the technology they use in their daily lives. The four topics covered in this academic course include: 1) Kinematics, 2) Dynamics, 3) Circular Motion, Work and Energy and 4) Oscillatory Motion and Mechanical Waves.

## **Science 24**

**Prerequisite: 50% in Science 14 or 40-49% in Science 10**

Science 24 continues to focus on helping students understand principles behind the natural events they experience and the technology they use in their lives. Topics include applications of matter and energy change, understanding common energy conversion systems, disease defense and human health, and motion, change and transportation safety.

## **Science 30**

**Prerequisite: Above 50% in any of: Science 20, Biology 20, Chemistry 20 or Physics 20** This academic program is designed for the student who is interested in science but does not require specific courses in biology, chemistry or physics for post-secondary education. This program integrates concepts related to physical, biological and Earth sciences. The four topics covered are: 1) Living Systems Respond to their Environment, 2) Chemistry and the Environment, 3) Electromagnetic Energy and 4) Energy and the Environment. **Note:** This program will be offered pending student interest.

## **Biology 30**

**Prerequisite: 65% or higher in Biology 20**

This course continues to explore the interactions of living systems with one another and with their environment. The emphasis in this academic course is on adaptation and change. The four topics covered include: 1) Systems Regulating Change in Human Organisms, 2) Reproduction and Development, 3) Cells, Chromosomes and DNA and 4) Change in Populations and Communities.

## **Chemistry 30**

**Prerequisite: 65% or higher in Chemistry 20**

This course continues to study matter and its changes. Students will continue to explore and understand the impact of chemistry in their lives and the world around them. The three topics covered in this academic course include: 1) Thermochemical Changes, 2) Electrochemical Changes 3) Chemical Changes of Organic Compounds and 4) Equilibrium, Acids and Bases in Chemical Changes.

## **Physics 30**

**Prerequisite: 65% or higher in Physics 20**

This course builds upon concepts in Physics 20 and explores electricity and magnetism. The four topics covered in this academic course are: 1) Momentum & Impulse, 2) Forces and Fields, 3) Electromagnetic Radiation and 4) Atomic Physics.

## **Off-Campus Education**

### **Work Experience**

Do you work part time or volunteer regularly? Students who do, are 15 years old and successfully complete a 1 credit prerequisite course (HCS3000: Workplace Safety Systems) are eligible to register for Work Experience.

There is a total of 30 credits that students can earn through Work Experience, 10 credits in each of Work Experience 15, 25, and 35. A credit is earned for every 25 hours worked. Of the 30 credits, a **total of 15** can be applied towards your high school diploma.

### **Registered Apprenticeship Program**

Are you interested in a trade? STAR Catholic Outreach offers students the opportunity to participate in the Registered Apprenticeship Program (RAP) to earn credits and 1000 hours toward apprenticeship certification. All RAP students must be 15 years old and complete both HCS3000: Workplace Safety Systems and HCS3010: Workplace Safety Practices. Once the prerequisite courses are complete and a position has been secured, students will begin work in their trade. After a probationary period, students are registered as apprentices.

A total of 40 credits can be earned through the Registered Apprenticeship Program. All of these credits may be applied toward a high school diploma, but all other graduation requirements must also be met.

### **Green Certificate**

The Green Certificate is an Off-Campus Program that looks at any one of the following areas of study: Beekeeping, Cow/Calf, Dairy, Feedlot, Field Crop, Greenhouse, Sheep, Swine (Pigs) and Equine. To register in the program, you must be 15 years of age and have successfully completed AGR3000. In this program students can not only earn their Green Certificate but also 16 credits in their area of study.



Please speak with our Off-campus Coordinator if you are interested in any of our Off-Campus Programs.

