

SAINT TIMOTHY HIGH SCHOOL

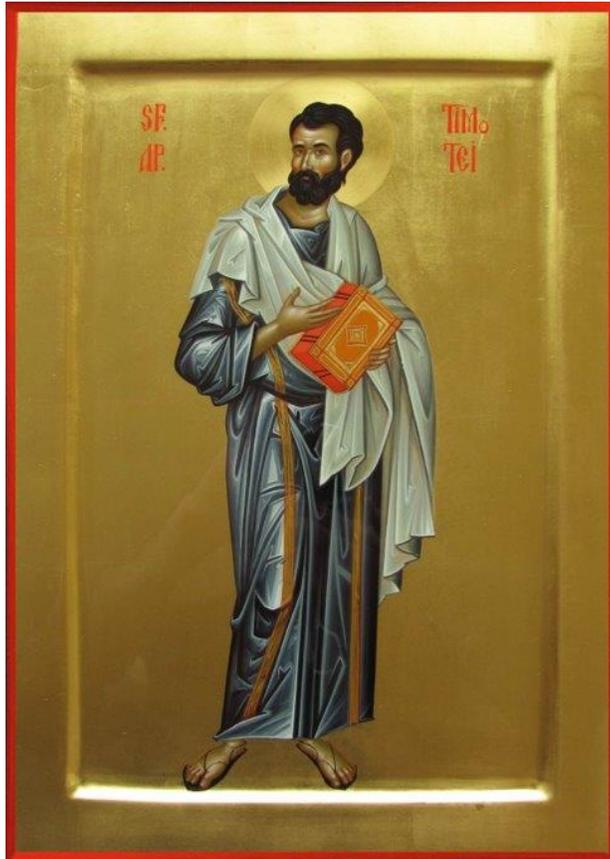
Grade 11 and 12 Course Selection Guide



2020-2021

Striving for Excellence...

Grounded in Faith



PRAYER OF SAINT TIMOTHY

Dear Saint Timothy,
You are well known for your gentleness,
You were a most faithful disciple of St Paul and
Like him, you travelled much to bring the Good News to all people.
The letters Paul wrote to you reveal your zeal and
Inspire us with confidence in you.
You too were cast into prison and you too gave your life for Christ.
So with confidence, we dare to ask you to guide our educational community
As we put your beliefs and teachings into action.
Amen.

Our school is named in honour of St. Timothy, often described as one of the most beloved and trusted disciples of St. Paul. He bravely accompanied Paul on many of his journeys and later became bishop of Ephesus.

ALBERTA HIGH SCHOOL DIPLOMA REQUIREMENTS

English Language Arts 30-1 or 30-2
Social Studies 30-1 or 30-2
Any 20 level Mathematics class
Any 20 level Science class
Physical Education 10
Career and Life Management (CALM)
10 credits in Career & Technology Studies or Fine Arts or International Languages or Physical Education 20 and 30
10 credits in 30 level courses in addition to English Language Arts 30-1 or 30-2 and Social Studies 30-1 or 30-2
Other credits including 9 credits in Religious Education (Roman Catholic)
TOTAL CREDITS – MINIMUM 100

ALBERTA HIGH SCHOOL CERTIFICATE REQUIREMENTS

Minimum of one K&E Course
English Language Arts 20-2 or 30-4
Social Studies 10-2 or 20-4
Mathematics 10-3 or 20-4
Science 14 or 20-4
Physical Education 10
Career and Life Management (CALM)
5 credits in 30-level occupational and 5 credits in 30-level practicum
Other credits including 9 credits in Religious Studies (Roman Catholic)
TOTAL CREDITS – MINIMUM 80

MINISTRY COMPONENT

To participate in our Graduation ceremonies, students must have successfully completed Religious Studies 15, 25 (or Religions of the World 35), and 35. Saint Timothy students are expected to participate in a variety of student ministry opportunities over the course of their high school years. Student ministry service is of vital importance to their faith formation and development. Students will be required to complete ten hours of ministry as a part of each course requirement for Religious Studies 15, 25, and 35 for a total of 30 hours required to be involved in the graduation ceremonies. Each grade has a different ministry focus:

Grade 10: “*Helping Those I Know*”

Grade 11: “*Reaching Out to Others*”

Grade 12: “*Helping Those Who Are in Great Need*”.

GRADE 11 & 12 COURSE SELECTION GUIDE

RELIGIOUS STUDIES

Religious Studies (Roman Catholic) 15 – Christ and Culture – The principal aim of *Christ and Culture* is to assist students, with the help of the Gospel, to participate as Christians in the shaping of our culture. The program explores major cultural issues from a Christological perspective. Beginning with their own life experiences, students acquire a deeper and more systematic knowledge of themselves, Christ’s message, and the Church. Connections between the Church and contemporary culture are explored in terms of what it means to be a responsible adolescent developing as a member of a Catholic, Christian community while living within the context of a broader culture (3 credits).

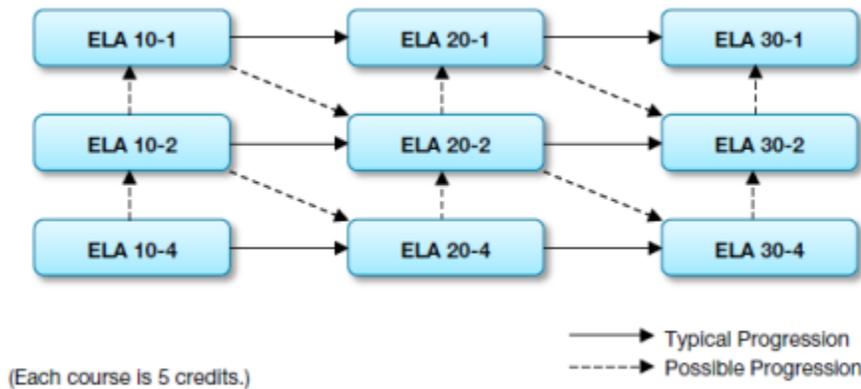
Religious Studies (Roman Catholic) 25 – Jesus Christ: God’s Gift of Salvation – Jesus Christ: God’s Gift of Salvation invites students to deepen their relationship with Jesus through a prayerful study of Scripture. Students will explore the Jewish historical, religious, and cultural world into which the Messiah was born and the Old Testament covenant fulfilled. Using the Gospels as primary sources, the course explores Jesus’s birth, early life, and ministry; his preaching of the Kingdom of God; his special teachings, particularly the parables; and his miracles. It then focuses on the scriptural accounts of his death and Resurrection, the Ascension, and their central significance for the Church’s understanding of Jesus as Christ, the Son of God. **Pre-requisite: 50%+ in Religious Education 15** (3 credits).

Religious Studies (Roman Catholic) 35 – In Search of the Good – In Search of the Good challenges students to understand themselves as moral persons called to discipleship by living the way of Christ. Through an examination of ethical theories, the revelation of Sacred Scripture, and the lived experience and teaching of the Catholic Church, this course invites students to mature as active participants in their faith. At the heart of catechesis is the human search for happiness as the completion of the superabundant love of God. The same tension which exists between the revelation of God’s love and the explorations of human reason are worked out in the areas of freedom, justice, human relations, ecology, reconciliation, life in community, and political life. **Pre-requisite: 50%+ in Religious Studies 25 or Religions of the World 35** (3 credits).

CALM

Career and Life Management Online (CALM) – This course enables students to make well informed, considered decisions and choices in all aspects of their lives to develop behaviours and attitudes that contribute to the well-being and respect of self and others now and in the future. This course is a graduation requirement for an Alberta High School Diploma and Certificate. (3 credits)

ENGLISH LANGUAGE ARTS



English Language Arts 10-1 – Students who enroll in this course should have an interest in understanding and appreciating language and literature. They should enjoy reading independently and be confident speakers and writers. **Recommended: 65%+ in Grade 9 English Language Arts** (5 credits).

English Language Arts 10-2 – Students who enroll in this course will benefit from additional exposure to reading comprehension and writing strategies that are designed to strengthen their use of language and their understanding of texts. **Recommended: 65% or less in Grade 9 English Language Arts** (5 credits).

English Language Arts 10-4 K&E – This Grade 10 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in English Language Arts classes throughout their schooling.

English Language Arts 20-1 – This course is designed to continue the development of the students' skills from English Language Arts 10-1. Pre-requisite: English Language Arts 10-1 or English Language Arts 20-2; **Recommended: 65%+ in English Language Arts 10-1** (5 credits).

English Language Arts 20-2 – Assessment will follow the criteria for the English Language Arts 20-2 curriculum and students will then enter the English Language Arts 30-2 program in their final year of high school. **Pre-requisite: 50%+ in English Language Arts 10-2 or 40%+ in English Language Arts 10-1** (5 credits).

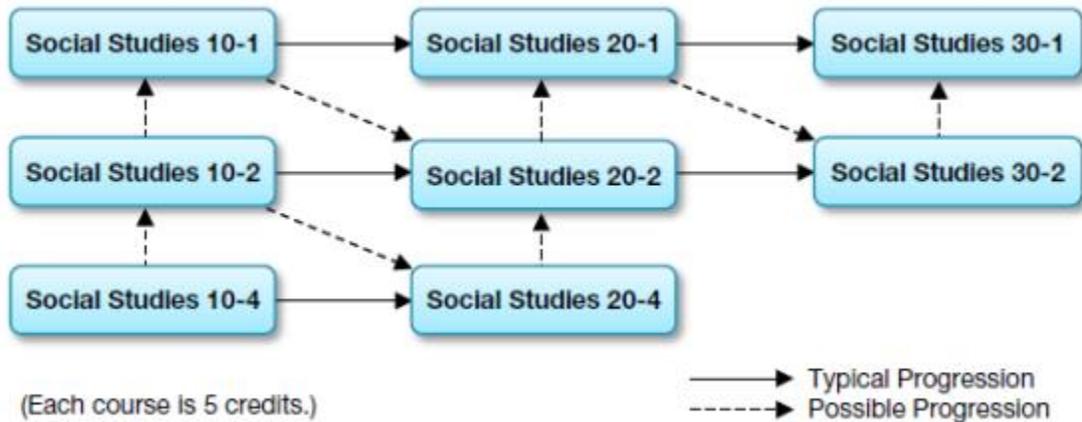
English Language Arts 20-4 K&E – This Grade 11 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in English Language Arts classes throughout their schooling. **Pre-requisite: 50%+ in ELA 10-4 or below 50% in ELA 10-2** (5 credits).

English Language Arts 30-1 – This course is designed to continue the development of the students' skills from English Language Arts 20-1 and will prepare students for the Alberta Education Diploma Exam. Pre-requisite: English Language Arts 20-1 or English Language Arts 30-2; **Recommended: 65%+ in English Language Arts 20-1** (5 credits).

English Language Arts 30-2 – This course will continue the development of skills acquired in 10 and 20 English Language Arts courses. It will also prepare students for the Alberta Education Diploma Exam. **Pre-requisite: 50%+ in English Language Arts 20-2 or 40%+ in English Language Arts 20-1** (5 credits).

English Language Arts 30-4 K&E – This Grade 12 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in English Language Arts throughout their schooling. This is the final level of English Language Arts required for the K & E certificate and is also a transition point for ELA 30-2 in the high school diploma route. **Pre-requisite: 50%+ in English Language Arts 20-4 or below 50% in English Language Arts 20-2** (5 credits).

SOCIAL STUDIES



Social Studies 10-1 – Perspectives on Globalization – Students will explore multiple perspectives on the impact of globalization in today’s world. A focus is placed on the relationships between globalization, the meaning of citizenship, and Canadian identity in a globalizing world. **Recommended: 65%+ in Grade 9 Social Studies** (5 credits).

Social Studies 10-2 – Understandings of Globalization – This course is a basic exploration of the impact of globalization on Canada using multiple perspectives. Students will take a basic look at how cultures, human rights, citizenship, and identity are affected by a global world. **Recommended: 65% or less in Grade 9 Social Studies** (5 credits).

Social Studies 10-4 K&E – This Grade 10 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Social Studies classes throughout their schooling.

Social Studies 20-1 – Perspectives on Nationalism - This course focuses on the historic and contemporary understanding of nationalism in the context of Canada as well as on an international level. **Pre-requisites: Social Studies 10-1 or Social 20-2; Recommended: 65%+ in Social Studies 10-1** (5 credits).

Social Studies 20-2 - Understandings of Nationalism - This course will take a basic examination of historical and contemporary issues related to nationalism in Canada and around the world. **Pre-requisite: 50%+ in Social Studies 10-2 or 40%+ in Social Studies 10-1** (5 credits).

Social Studies 20-4 K&E – This Grade 11 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Social Studies throughout their schooling. This is the final level of Social Studies required for the K & E certificate and is also a transition point for Social Studies 20-2 in the high school diploma route. **Pre-requisite: 50%+ in Social 10-4 or below 50% in Social Studies 10-2** (5 credits).

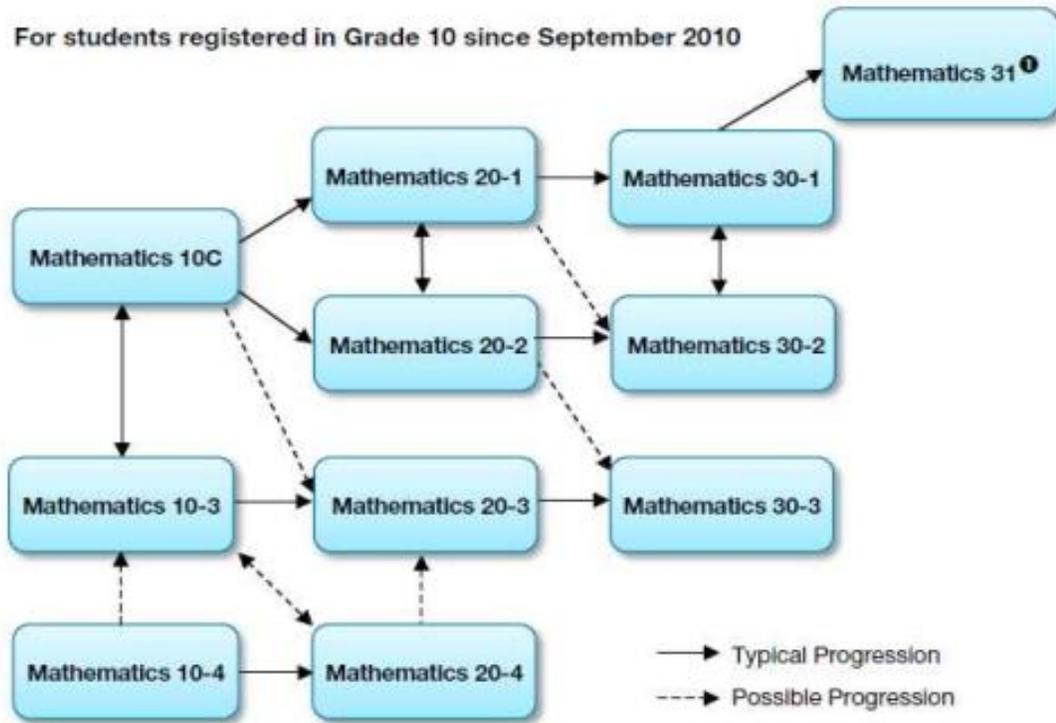
Social Studies 30-1 – Perspectives on Ideology – Students will explore the origins and complexities of ideologies and examine multiple perspectives regarding the principles of classical and modern liberalism. **Pre-requisite: Social Studies 20-1 or Social Studies 30-2; Recommended: 65%+ in Social Studies 20-1** (5 credits).

Social Studies 30-2 – Understandings of Ideology – Students will examine the origins, values, and components of competing ideologies and explore multiple perspectives regarding relationships among individualism, liberalism, common good, and collectivism. **Pre-requisite: 50%+ in Social Studies 20-2 or 40%+ in Social Studies 20-1** (5 credits).

Social Studies 30-4 K&E – This Grade 12 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Social Studies throughout their schooling. This is the final level of Social Studies required for the K & E certificate and is also a transition point for SS 30-2 in the high school diploma route. **Pre-requisite: 50%+ in English Language Arts 20-4 or below 50% in English Language Arts 20-2** (5 credits).

MATHEMATICS

For students registered in Grade 10 since September 2010



(Each course is 5 credits.)

① Mathematics 30-1 is a prerequisite or corequisite for Mathematics 31.

Mathematics 10C – This course covers measurement, algebra, numbers, relations, and functions. This course prepares students for either Math 20-1 or Math 20-2 in Grade 11. Students must have a passing mark in Grade 9 Mathematics or Mathematics 10-3 to participate in Mathematics 10C. **Pre-requisite: 50%+ in Grade 9 Mathematics or 50%+ in Mathematics 10-3** (5 credits)

Mathematics 10-3 – This course covers measurement, geometry, numbers, and algebra. This course is for students who do not pass Grade 9 Mathematics and/or who plan to pursue a trade or the workforce following graduation. (5 credits).

Mathematics 10-4 – This Grade 10 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Mathematics classes throughout their schooling (5 credits).

Mathematics 20-1 – This course is a continuation of Mathematics 10C where students achieved success in the units of factoring, powers and roots, linear functions, and systems of equations. Mathematics 20-1 covers trigonometry, quadratics, functions, and sequences. **Pre-requisite: Mathematics 10C or Mathematics 20-2. Recommended: 60%+ in Mathematics 10C or 75%+ and teacher's recommendation in Mathematics 20-2** (5 credits).

Mathematics 20-2 – This course is a continuation of Mathematics 10C, covering measurements, trigonometry, reasoning, statistics, and quadratics. **Pre-requisite: 50%+ in Mathematics 10C** (5 credits).

Mathematics 20-3 – This course is a continuation of Mathematics 10-3, covering measurements, geometry, finance and graphs. **Pre-requisite: 50%+ in Mathematics 10-3 or 40%+ in Mathematics 10C** (5 credits)

Mathematics 20-4 – This Grade 11 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Mathematics throughout their schooling. This is the final level of Mathematics required for the K & E certificate and is also a transition point for Mathematics 20-2 in the high school diploma route. **Pre-requisite: 50%+ in Mathematics 10-4 or below 50% in Mathematics 10-2** (5 credits).

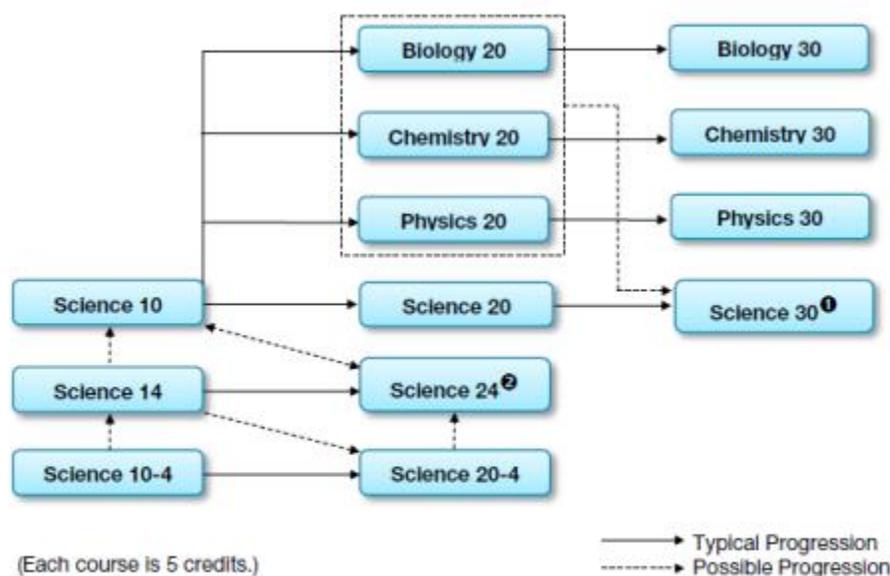
Mathematics 30-1 – This course is a continuation of Mathematics 20-1 covering transformations, trigonometry, logarithms, equations, and functions. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: Mathematics 20-1 or Mathematics 30-2; Recommended: 70%+ in Mathematics 20-1 or 75%+ and teacher's recommendation in Mathematics 30-2** (5 credits).

Mathematics 30-2 – This course is a continuation of Mathematics 20-2 covering logical reasoning, probability, relations, and functions. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: 50%+ in Mathematics 20-2 or 40%+ in Mathematics 20-1** (5 credits).

Mathematics 30-3 – This course is a continuation of Mathematics 20-3 covering measurements, geometry, algebra, statistics, and probability. **Pre-requisite: 50%+ in Mathematics 20-3 or 40%+ in Mathematics 20-2 or Mathematics 20-1** (5 credits).

Mathematics 31 – This course is recommended for students planning to go to university or college. This course is a continuation of Mathematics 30-1 covering limits, differentiation, curve sketching, and integration. **Pre-requisite: 50%+ in Mathematics 30-1** (5 credits).

SCIENCES



- ❶ Students who have achieved a final mark of 50% or greater in Biology 20, Chemistry 20, Physics 20 or Science 20 may enroll 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.

Biology 20 – In this course the focus is on helping students understand the biology principles behind the natural events they experience and the technology they use in their daily lives. Major topics include: the biosphere, cellular matter and energy flow, and energy exchange in ecosystems and in human organisms. This course is recommended for students planning to pursue the biological sciences at university. **Pre-requisite: Science 10; Recommended: 65%+ in Science 10** *Students wishing to take this course in Grade 10 must achieve 80% in Science 10. (5 credits).

Biology 30 – This course expands on the concepts learned in Biology 20 and introduces new concepts in human physiology, reproduction and development, genetics, and population and communities. This is an academic course intended for students who plan to attend university or college to study a science related career. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: Biology 20; Recommended: 65%+ in Biology 20** (5 credits).

Chemistry 20 - This course is intended for students planning to pursue a career in a science-related field. The focus is on how science, technology, and society are interrelated. The major topics covered are chemical bonding, solutions, gasses, and stoichiometry (calculations in chemistry). It is also recommended that students have strong algebra skills. **Pre-requisite: Science 10; Recommended: 65%+ in Science 10** (5 credits).

Chemistry 30 – This course expands on the concepts learned in Chemistry 20 and introduces new concepts in thermochemistry, electrochemistry, acid-based chemistry, and organic chemistry. Chemistry 30 is more theoretical in nature than Chemistry 20 and has an extensive lab component, which supports the theoretical nature of this course. This is an academic course intended for students who plan to attend university or college to study a science career. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: Chemistry 20; Recommended: 65%+ in Chemistry 20** (5 credits).

Physics 20 – This course is intended for students planning to pursue a career in a science related field. The focus is on how science, technology, and society are interrelated. The major topics covered are kinematics (motion), dynamics (forces), circular motion, and gravitation and waves. It is also recommended that students have strong algebra skills. **Pre-requisite: Science 10; Recommended: 65%+ in Science 10** (5 credits).

Physics 30 – This course expands on the concepts learned in Physics 20 and introduces new concepts in conservation laws, electrostatics and electricity, magnetic fields, and modern physics. Physics 30 is more theoretical in nature than Physics 20. This is an academic course intended for students who plan to attend university or college. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: Physics 20; Recommended: 65%+ in Physics 20** (5 credits).

Science 10 – This is an integrated academic course that helps students better understand and apply fundamental concepts and skills common to biology, chemistry, physics, and the earth sciences. The focus is on how science, technology, and society are interrelated. This course would be the starting point for students considering post-secondary programs that require one or more science course. **Recommended: 65%+ in Grade 9 Science and a strong background in Math.** (5 credits).

Science 14 – This course is a basic science program that helps students better understand and apply fundamental concepts and skills common to biology, chemistry, physics and environmental science. The focus is on the practical application of science as it relates to daily life. Students would be able to complete the 10 credit graduation requirement by taking the next level Science 24. (5 credits).

Science 10-4 K&E – This Grade 10 course follows the Knowledge and Employability series of courses. It is designed for students who have struggled in Science classes throughout their schooling (5 credits).

Science 20 – This academic course is intended for students who are planning to attend university or college and would need a 20/30 level science course for a specific program (please check current requirements). The focus is on how science, technology, and society are interrelated within an environmental context. The major topics covered are geology, ecology, physics, and chemistry. **Pre-requisite: 50%+ in Science 10** (5 credits).

Science 24 - This course is a continuation of Science 14. It is meant for students who are not planning to pursue a career in science. The focus is on the practical applications of science as it relates to a person's daily life. **Pre-requisite: 50%+ in Science 14 or 40%+ in Science 10** (5 credits).

Science 20-4 K&E – This Grade 11 course is from the Knowledge and Employability series of courses. It is designed for students who have struggled in Science throughout their schooling. Science 20-4 is the final Science course required for the K & E certificate and transfers to Science 24 in the diploma route. **Pre-requisite: 50%+ in Science 10-4 or 40%+ in Science 14** (5 credits).

Science 30 – This course is a rigorous science program. It is intended for students who are planning to attend university or college for specific programs (please check current requirements). The focus is on how science, technology, and society are interrelated within an environmental context. The major topics covered are: Living Systems, Chemistry, Electromagnetic Energy, and Energy and the Environment. A diploma exam from Alberta Education will be written at the end of this course, which will be worth 30% of the student's mark. **Pre-requisite: 50%+ in Science 20 or 50%+ in Biology 20 or 50%+ in Chemistry 20 or 50%+ in Physics 20** (5 credits).

PHYSICAL EDUCATION

Physical Education 10 – In this course, students are involved in developing their physical skills, leadership, and social skills by participating in a variety of active living activities that incorporate individual activities, fitness elements, team sports, traditional dance, and cooperative games (3 or 5 credits).

Physical Education 20 – An active living program that will allow students to enjoy and improve their skills in a wide variety of activities in the school environment and within the community. They will experience better health and well-being, play cooperatively and embrace activity as a lifestyle choice (3 or 5 credits).

Physical Education 30 – An enhanced active living program that will allow students to enjoy and improve their skills in a variety of activities in the school environment and within the community. They will experience better health and well-being, play cooperatively and embrace activity as a lifestyle choice (3 or 5 credits).

SOCIAL SCIENCES

Aboriginal Studies 30- This course highlights understanding of the current issues facing Indigenous peoples worldwide. Aboriginal Studies 30 enables students to demonstrate an understanding of the issues of Indigenous rights and self-government, Indigenous land claims, Indigenous peoples in Canadian society and Indigenous world issues. **Prerequisite: completion of a Social 20-1 or 20-2. *A passing grade in this course will result in the student receiving credit in Aboriginal Studies 10, 20 & 30 for a total of 15 credits.**

General Psychology 20 – This course introduces students to the science of the brain and focuses on the study of various branches of psychology including thinking, learning, conflict resolution, and behaviour disorders (3 credits).

FINE ARTS

Art 10 – This course is an introduction to the basic principles of art and art appreciation. It concentrates on design, drawing, painting, sculpture, developing an art vocabulary, and appreciating all art forms. Art 10 offers an exploration of different forms of art media with a focus on wellness and the joy of expression (3 or 5 credits).

Art 20 – This course is a continuation of Art 10 and is an intermediate study of the principles of art and art appreciation. It builds on sequential development of skills in 2D and 3D media. Specific reference to Art History is made and there is further application of formal, technical, and conceptual concerns to student artwork. **Pre-requisite: 50%+ in Art 10** (3 or 5 credits).

Art 30 – This course is a continuation of Art 20 and is the senior study level of the principles of art and art appreciation for high school. Students will engage in the refinement and honing of art skills in 2D and 3D media along with individualized selections of course activities. Formal, technical, and conceptual goals remain key in this course. Students will develop their own unique style of work and will create artwork suitable for inclusion in a digital portfolio – perfect for those interested in applying to a post-secondary art program. **Pre-requisite: 50%+ in Art 20** (5 credits)

Drama 10 – Through a variety of games, presentations, and activities, students will attain the fundamentals of improvisation, acting, performance, and technical theatre. Regardless of previous experience, all students will gain new insight, knowledge, and skills. This course develops the foundation for all Drama department curricular and extra-curricular activities. (3 or 5 credits)

Drama 20 – Students will continue to explore voice, movement, acting, improvisation, theatre history, and technical theatre. A significant part of the course involves the writing, casting, and directing of a short play. **Pre-requisite: 50%+ in Drama 10** (3 or 5 credits).

Drama 30 – During this course, students become directors, actors, and designers. There is substantial script work, analysis, and memorization. Students will develop an appreciation for professional theatre and the creative process as they reflect on and participate in various stages of the production. **Pre-requisite: 50%+ in Drama 20** (5 credits).

Instrumental Music 10 (Woodwind, Brass & Percussion Techniques) – The Instrumental Music program provides students with the opportunity to develop as musicians through performance on an instrument. Instrumental Music focuses on pitch, rhythm, intonation, tone, dynamics, articulations, balance, blend, phrasing, and expression. *Students must select*

either Woodwinds (Flute, Oboe, Clarinet, Bass Clarinet, Bassoon, Alto Saxophone, Tenor Saxophone, Baritone Saxophone) or Brass/Percussion (Trumpet, French Horn, Trombone, Bass Trombone, Euphonium/Baritone, Tuba, Battery, Keyboards, Timpani). **Instrumental Music 10 students will be automatically enrolled in Band 15 in September / Pre-requisite: Band 9 or consent of the Music Director; Co-requisite: Band 15 (5 credits)**

Band 15 – Band 15 is an extension of Instrumental Music 10. Woodwinds, Brass and Percussion Techniques classes are combined for large ensemble rehearsal. Students will study the works of great composers and arrangers and prepare pieces for performance in concert. *Band rehearsals occur outside the normal timetable; see Music Schedule.* **Students will be automatically enrolled in this course in September. You do not need to include this in your current selection. Pre-requisite: Band 9 or consent of the Music Director; Co-requisite: Instrumental Music 10 (3 credits).**

Instrumental Music 20 (Woodwind, Brass & Percussion Techniques) – The Instrumental Music program provides students with the opportunity to develop as musicians through performance on an instrument. Instrumental Music focuses on pitch, rhythm, intonation, tone, dynamics, articulations, balance, blend, phrasing, and expression. *Students must select either Woodwinds (Flute, Oboe, Clarinet, Bass Clarinet, Bassoon, Alto Saxophone, Tenor Saxophone, Baritone Saxophone) or Brass/Percussion (Trumpet, French Horn, Trombone, Bass Trombone, Euphonium/Baritone, Tuba, Battery, Keyboards, Timpani).* **Instrumental Music 20 students will be automatically enrolled in Band 25 in September. Pre-requisite: Instrumental Music 10; Co-requisite: Band 25 (5 credits).**

Band 25 – Band 25 is an extension of Instrumental Music 20. Woodwinds, Brass and Percussion Techniques classes are combined for large ensemble rehearsal. Students will study the works of great composers and arrangers and prepare pieces for performance in concert. *Band rehearsals occur outside the normal timetable; see Music Schedule.* **Pre-requisite: Band 15 or consent of the Music Director; Co-requisite: Instrumental Music 25 (5 credits).**

Instrumental Music 30 (Woodwind, Brass & Percussion Techniques) – The Instrumental Music program provides students with the opportunity to develop as musicians through performance on an instrument. Instrumental Music focuses on pitch, rhythm, intonation, tone, dynamics, articulations, balance, blend, phrasing, and expression. *Students must select either Woodwinds (Flute, Oboe, Clarinet, Bass Clarinet, Bassoon, Alto Saxophone, Tenor Saxophone, Baritone Saxophone) or Brass/Percussion (Trumpet, French Horn, Trombone, Bass Trombone, Euphonium/Baritone, Tuba, Battery, Keyboards, Timpani).* **Instrumental Music 30 students will be automatically enrolled in Band 35 in September. Pre-requisite: Instrumental Music 20; Co-requisite: Band 35 (5 credits).**

Band 35 – Band 35 is an extension of Instrumental Music 30. Woodwinds, Brass and Percussion Techniques classes are combined for large ensemble rehearsal. Students will study the works of great composers and arrangers and prepare pieces for performance in concert. *Band rehearsals occur outside the normal timetable; see Music Schedule.* **Pre-requisite: Band 25 or consent of the Music Director; Instrumental Music 35 (5 credits).**

CAREER AND TECHNOLOGY STUDIES (CTS)

Communication Technology 10 – Based on a required understanding of the Elements and Principles of Design, students use a variety of graphics tools to create design projects that introduce basic vector diagramming skills and raster manipulations. Creating, saving, and exporting project designs using several web-based file formats are introduced, including printable design format (3 credits).

Communication Technology 20 – Based on a required understanding of the Elements and Principles of Design, students use a variety of graphics tools to create design projects that introduce intermediate vector diagramming skills and raster manipulations. Creating, saving, and exporting project designs using several web-based file formats are explored, including printable design format (3 credits).

Communication Technology 30 – Based on a required understanding of the Elements and Principles of Design, students use a variety of graphics tools to create design projects that introduce advanced vector diagramming skills and raster manipulations. Creating, saving, and exporting project designs using several web-based file formats are explored, including printable design format (3 credits).

Construction Technology 10 (Carpentry) – This is an introductory woodworking course designed to teach students basic woodworking theory, blueprint reading, safety, hand/power tools, and machinery skills. Students will complete a variety of projects such as a skill block, sanding block, and foot stool/saw pony (3 credits).

Construction Technology 20 (Carpentry) – This is an intermediate course designed to further the hand and power tool skills and knowledge taught in the introductory woodworking course. Students will focus on being able to plan projects and operate machinery with production work being introduced. Students will complete a detailed solid wood clock or checkerboard with a drawer. Students who choose to take 5 credits will be exposed to set/house construction and will have the opportunity to enrich their clock project. **Pre-requisite: 50%+ in Construction Tech 10** (3 credits).

Construction Technology 30 (Carpentry) – For this course students will be required to plan and build their own larger scale furniture project. The individualized nature of the course is designed to prepare students for an entry level position in the building trades. Project choices may include a steamer trunk, coffee table, desk, chest of drawers, bed frame, card table, or other project that fits curricular outcomes. Students may also opt for shed or set construction. An emphasis will be put on jobsite skills as this course will prepare students for entry level positions in the building construction field. **Pre-requisite: 50%+ in Construction Tech 20** (3 credits).

Fabrication 10 (Welding) – This course is for students interested in working with their hands and taking pride in creating works of art using cutting edge welding and metal fabrication technologies. Learn how to safely manipulate fire and electricity while creating amazing projects. Skills developed in this course will provide a head start for those planning on pursuing a welding trade at SAIT. The course is designed as an introduction to safety, theory and applied skills in welding and metal fabrication. Students will complete projects in: Shielded Metal Arc Welding, Gas Metal Arc Welding, Flux Core Arc Welding, Plasma Arc Cutting and Oxy-Acetylene Welding/Cutting (3 credits).

Fabrication 20 (Welding) – Having built a foundation of skills in Fabrication 10, students will dive farther into the magic of metallurgy in Fabrication 20. Trade skills will continue to be the focus while students learn the art of welding. Learn to fabricate and weld projects for potential clients under the supervision of a skilled tradesperson. Fabrication 20 is a continuation of the theory and practice learned in the introductory course. Students will practice and complete projects that will further their skills in a variety of welding processes. Basic blueprint reading, layout, assembly, and hand skills will be reinforced. Process and safety will also be a major focus. **Pre-requisite: 50%+ in Fabrication 10** (3 credits).

Fabrication 30 (Welding) – Students will learn everything from how to use an anvil and forge to learn basic blacksmithing skills, to using Gas Tungsten Arc welders for welding aluminum and other exotic metals. This course will be the culmination of previous theory and skills related to welding and fabrication. An emphasis will be put on production skills, planning, and executing larger scale projects. Upon successful completion of this course students will be prepared for an entry level position in a fabrication trade. Skills gained though out this course will be an asset to any resume. **Pre-requisite: 50%+ in Fabrication 20** (3 credits).

Food Studies 10 – This course introduces students to nutrition, food preparation and presentation, and safe and sanitary food handling in the kitchen and in the workplace. Recipes are chosen from the four basic food groups in this experiential course (3 credits).

Foods Studies 20 – This intermediate program is designed to build on the student's skills and knowledge. Students will be mastering the fine art of "Soups, Stocks and Sauces", "Cake and Pastry", and "Meat Cookery **Pre-requisite: 50%+ in Foods 10** (3 credits).

Foods Studies 30 – This advanced program is designed specifically for students who are considering pursuing a career in the food industry. This course requires students to independently and creatively build on the skills and knowledge learned in Foods 10/20. They will have the opportunity to exercise their creativity through a large-scale baking project, such as cakes or gingerbread houses in the "Creative Baking" course. "Regional Cuisine", "Food Presentation", and "Advanced Yeast Products" may also be areas of study within this course. **Pre-requisite: 50%+ in Foods 20** (3 credits).

Learning Strategies 15 – This course is available in addition to direct instruction of concepts and skills in 10 level courses. Students in Knowledge and Employability classes will benefit from strategy instruction. This course will provide students with strategies to be more effective, including how to approach tasks and how to use knowledge to solve a problem. Like direct instruction, strategy instruction involves modelling and demonstration, feedback, guided and independent practice, and transfer to different contexts.

Learning Strategies 25 – This course is available in addition to direct instruction of concepts and skills in 20 level courses. Students in Knowledge and Employability classes will benefit from strategy instruction. This course will provide students with strategies to be more effective, including how to approach tasks and how to use knowledge to solve a problem. Like direct instruction, strategy instruction involves modelling and demonstration, feedback, guided and independent practice, and transfer to different contexts.

Learning Strategies 35 – This course is available in addition to direct instruction of concepts and skills in 30 level courses. Students in Knowledge and Employability classes will benefit from strategy instruction. This course will provide students with strategies to be more effective, including how to approach tasks and how to use knowledge to solve a problem. Like direct instruction, strategy instruction involves modelling and demonstration, feedback, guided and independent practice, and transfer to different contexts.

Outdoor Education 10 – This course introduces students to the outdoors. Students learn survival skills and wilderness navigation while examining wildlife diversity. Students work on projects that enhance competencies and skills that are personally relevant (3 credits).

Outdoor Education 20 – In this intermediate course, students learn survival skills and wilderness navigation while examining wildlife diversity. Students work on projects that enhance competencies and skills that are personally and globally relevant (3 credits).

Photography 10 – In the Introductory Photography course, students will develop essential skills in camera use with a focus on composition, set-up and camera operation, examination of exposure, basic lighting, image processing, and proofing and display. In this course, students will gain hands on experience with the Nikon DSLR camera and will be able to capture images and produce final display proofs. Students will learn in-depth the technical and creative uses of aperture, shutter speed, and ISO and demonstrate how combinations of the three elements give very different results. This is a great introductory course that will allow students the opportunity to explore their creative side with the use of a camera (3 credits).

Photography 20 – In the Intermediate Photography course, students will expand their photography skills in the areas of composition, exposure, basic lighting, camera operation, image processing and proofing, and display. Students will explore in further depth photographic concepts by using various lenses and applying depth of field in composition. As the final project for this course, students will use photographic prints or digital images to communicate a message or tell a story. **Pre-requisite: 50%+ in Photography 10** (3 credits).

Photography 30 – In the Advanced Photography course, students are introduced to various techniques used to create high-quality color photographs through understanding the process, parameters, and issues that arise when working on color photographs. In the next portion of the course, students plan and respond to outdoor conditions to capture and produce high-quality outdoor images. In the final project for this course, students will develop skills and explore processes to present a story primarily using pictures and text. **Pre-requisite: 50%+ in Photography 20** (3 credits).

Sports Medicine 10 – This is an introductory course designed for students who want to understand how the human body works and how to manage sports injuries. Students will study musculoskeletal anatomy, physiology of injuries, disease, healing, preventive taping, safety, wrapping, and first aid. Concepts related to the determinants of health and wellness and reporting protocols for providing care are reviewed. Standard First Aid CPR/AED Level C shall be offered with students potentially earning certification for 3 years and potentially earning a 4th credit in this course (3 or 4 credits).

Sports Medicine 20 – This is an intermediate level course built on the competencies learned at the introductory level. Students will examine complementary therapies focusing on the application, knowledge, and techniques to enhance athletic performance and identify common athletic injuries. Students study the anatomy, physiology, and pathology of body systems. Students engage in the numerous aspects of modalities and complementary therapies including ethics and safety. **Pre-requisite: 50%+ in Sports Medicine 10** (3 credits).

Sports Medicine 30 – This is an advanced level course that builds on the competencies learned at the introductory and intermediate levels. Students will identify advanced perspectives on health and extend their competencies in career transitions and community health through advanced taping and strapping techniques. Students will learn assessment strategies for a variety of musculoskeletal injuries. Students engage in human movement and biomechanics. **Pre-requisite: 50%+ in Sports Medicine 20** (3 credits).

Sports Performance 10 – This course will concentrate on the development of both the physical and mental conditioning of student athletes. The course will consist of an advanced fitness-training component as well as sport specific drills used to improve skill development. Classroom instruction will also be provided and will focus on the area of developing leadership and learning while studying the traits of outstanding athletes (3 credits).

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Sports Performance 30 – This course will concentrate on the development of both the physical and mental conditioning of student athletes. The course will consist of an advanced fitness training component as well as sport specific drills used to improve skill development. Classroom instruction will also be provided and will focus on the areas of developing leadership and learning while studying the traits of outstanding athletes. It is of utmost importance that only the serious student athlete registers for the class as it will be extremely strenuous in nature. **Pre-requisite: 50%+ in Sports Performance 20** (3 credits).

OFF-CAMPUS EDUCATION

The Off-Campus Education program provides opportunities for senior high school students to explore and expand their career interests, skills and knowledge related to work, and other life roles.

Work Experience – Students currently working (or planning to work) a part time job can earn 1 credit for every 25 hours worked (with a minimum 75 hours worked). Of these credits, 5 Career Internship credits and 15 Work Experience credits can be counted towards the 100 credits required for a High School Diploma. Work sites are approved, a learning plan is established, and a teacher supervises the student's experience. Registration for the pre-requisite course, **HCS 3000: Workplace Safety Systems** (1 credit), and Work Experience is done through the Off-Campus Teacher in the fall.

Registered Apprenticeship Program (RAP) – The Registered Apprenticeship Program (RAP) is an opportunity for high school students to complete their high school diploma while also working as an indentured apprentice earning credits. They build hours towards a Journeyman's Certificate in one of Alberta's more than 50 trades. Worksites are approved, a learning plan is established, and a teacher supervises the student's experience. See your Off-Campus teacher to register.

Green Certificate – is an industry-driven training program available to students. It provides trainees with opportunities to enter a variety of agricultural-related, structured learning pathways as a part of their senior high school program and to earn a credential leading to a career in agribusiness. It is an approved complementary program of studies.

RUTHERFORD SCHOLARSHIP

Please see the link below for any and all information regarding the Rutherford Scholarship Course Requirements.

<https://alis.alberta.ca/pdf/scholarships/RutherfordScholarship.pdf>